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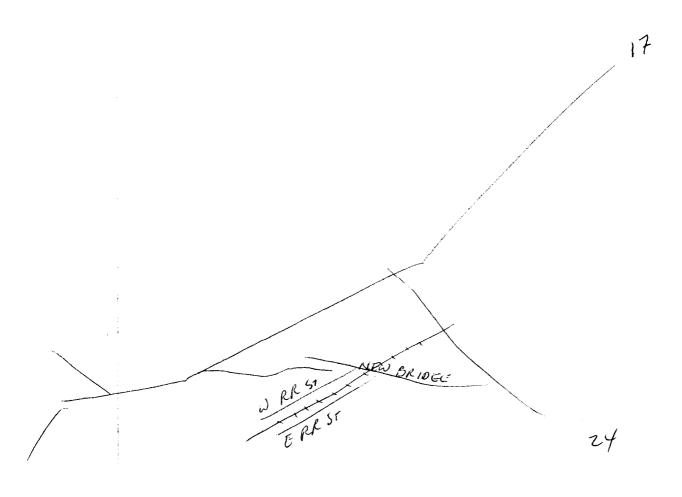
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JOHN B JAMES

HENERY CHESINOT

RUBIN ELLIS

Mac CIBB

Mr. GRAFA

Ar. Patram suggested everyone carry a binder to Cherry Pt. / Carry Lejeune

SOUNDINGS IN METERS

Jim:

Here are your tickets for your trip Monday. Dr. Putnam called and said to tell you that you will <u>not</u> be met at the airport. He has reserved a car for you at Hertz - you are to drive directly to the Natural Resources Building at Camp Lejeune. If no one is there yet - wait.

111

Please bring all the materials for Camp Lejeune.

Quad Maps
Big box of stuff
Hazardous waste fact sheets
1008 sheet to EPA
Does not need master plan.

GOOD LUCK AND HAVE A NICE TRIP.

Jeanne

#### CAROLINA SLURRY SYSTEMS

ROUTE 8 - BOX 114
RALEIGH, NORTH CAROLINA 27612

(919) 782-2573

9 June 1982

Water and Air Research Post Office Box 1121 Gainsville, Florida 32602

Attention: Mr. Hugh Putnam

#### Gentlemen:

Enclosed is our brochure illustrating the vibrated beam technique of cut-off wall installation. With this construction method, we are able to install a variety of custom formulated slurries to match various containment problems. The Aspemix slurry is able to contain very aggressive fluids and still provide conservative impermeability.

If possible we would appreciate a copy of your project report of your investigation at Camp LeJeune.

After reviewing the enclosed information, we will be happy to discuss any application you may have for this system.

Very truly yours,

CAROLINA SLURRY SYSTEMS

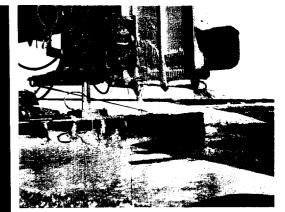
for R. Howsh

James R. Harmston

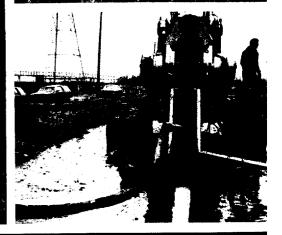
JRH/jp

Enclosures:

SLURRY WALLS
POND LINERS
WATER CONSERVATION
CONSTRUCTION DEWATERING
HAZARDOUS WASTE CONTROL







## Slurry Systems

**CENTRACTORS and CONSULTANTS** 

A Division of Thatcher Engineering Corporation

**SLURRY SYSTEMS** 

A division of THATCHER ENGINEERING CORP. 7100 Industrial Avenue Gary, Indiana 46406 (219) 949-0561 Telex 72-5427

#### **CAROLINA SLURRY SYSTEMS**

Post Office Box 360 Morrisville, North Carolina 27560 (919) 782-2573

JEBCO SLURRY SYSTEMS JEBCO SLURRY ASSOCIATES 1339 Chestnut Street Philadelphia, Pennsylvania 19107 (215) 568-5707 **GROUND SLURRY SYSTEMS** 

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415 Seventh Avenue Regina, Saskatchewan Canada S4N4P1 (306) 569-0576

**DUTRA SLURRY SYSTEMS** 

P.O. Box 338 Rio Vista, California 94571 (707) 374-6339



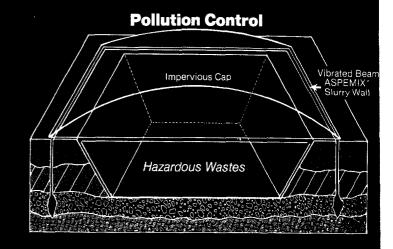
# Total Control of Water Barrier Problems...

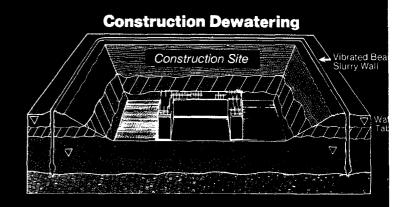
**SLURRY SYSTEMS** a Division of Thatcher Engineering combines the capabilities of engineering-consulting services and construction in the fields of water pollution, construction dewatering, impoundment of hazardous wastes, chemical wastes and retention ponds.

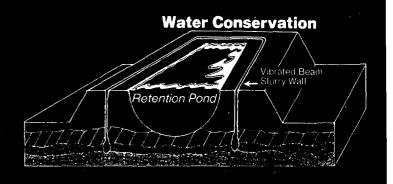
We offer you several highly innovative, but totally functional systems that can be utilized to solve water barrier problems. We have an unmatched record of accomplishments, successfully installing millions of square feet of vibrated beam slurry wall and many acres of pond liners throughout the United States and Canada.

The success of our installations can be attributed to our systems approach. We have the highly trained personnel necessary to investigate each proposed job site, define the problem and develop an economically feasible solution to your problem. We design the proper and workable technique and the right slurry for each job. We design a solution for YOUR problem, we don't have a one size fits all approach. In critical areas where pollutants have highly detrimental effects on bentonite base slurries. we have developed specially formulated slurries to solve particularly unique problems. Our trademarked asphalt emulsion base slurry ASPEMIX\* has a proven record as a barrier media under the most demanding conditions, and is capable of withstanding most known chemicals. But, the planning and the design are only part of our system, we also have the manpower and the equipment to put the system in place, and to place it Successfully.

**Slurry Systems** is small enough to permit the principals to actively participate in each project, but large enough and with sufficient financial resoures to assure effective execution of major construction undertakings.







## The Thim Wall

## In Europe...

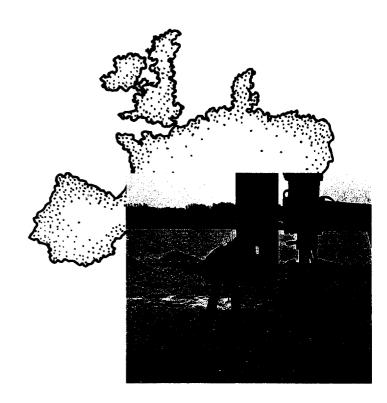
The vibrated beam slurry cut-off wall originated in Europe in the early 1950's. It provides a method of cut-off placement that is highly efficient in producing a low-cost impermeable barrier. By 1974, more than 50 million square feet of slurry wall had been constructed by this new method, all of it successful. So successful in fact, that through-out Europe cement/bentonite slurries are considered to be the only practical method for dewatering projects, water containment, and at power plants for the retention of fly ash ponds. Therefore, the "new" vibrated beam slurry cut-off became an important tool in the hands of geotechnical engineers.

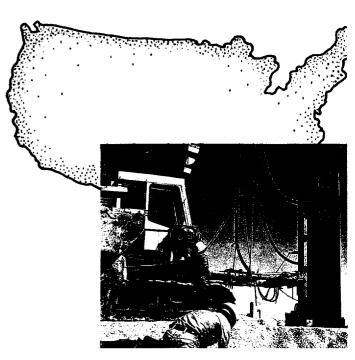
## In The United States. . .

In 1974, Slurry Systems brought the vibrated beam technique to the United States. Since then we have added a number of significant improvements in both slurry formulation designs and in equipment development. We have successfully placed millions of square feet of vibrated beam slurry cut-off wall. Our methods are fast, economical and make efficient use of men, machinery and material. Our quality control methods, the overall neatness of our jobsites and our proven track record speak for themselves. We can document the advantages of our methods over ANY OTHER METHOD OF SLURRY WALL PLACEMENT.

## Under the toughest conditions...

After conventional dewatering methods were ruled not feasible at the Harry S. Truman Dam on the Osage River, we placed a vibrated beam slurry wall in coarse gravel. . . and the project was completed successfully. In Canada where contamination of the soil by PCB's prohibited any excavation, we successfully isolated the problem area with a vibrated beam wall that utilized a high concentration of bentonite. At a chemical recovery plant we were able to successfully enclose a hazardous waste area with

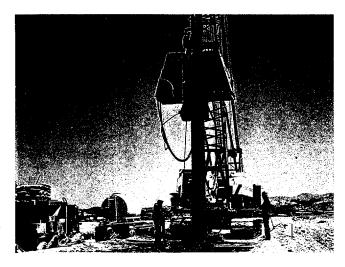




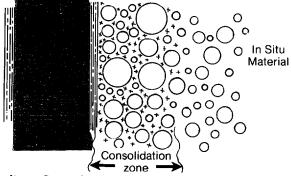
ASPEMIX® (a second generation slurry) where material cost prohibited the backhoe or clamshell method. In Michigan we were able to place a vibrated beam wall in an area that was so confined no other method could be used to place the wall.

## 

## Better than the Clam Shell/Backhoe Method. . .

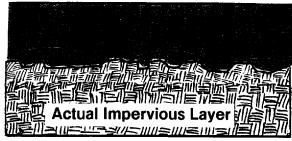


### VIBRATED BEAM THIN SLURRY WALL (CEMENT/BENTONITE)



The result... Our direct injection vibrated beam slurry wall gives two positively formed filter cakes and a wall with overall quality superior to any other method.

#### **BOUNDARY CONDITIONS**

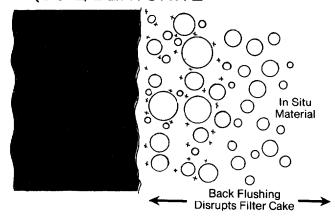


Actual vibrated beam installation contacting the impervious layer.

The result... With our patented vibrated beam we are able to find the impervious zone and "key" into clay or seal to rock, no matter what the boring plot shows.

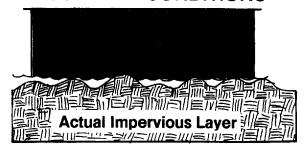


**SLURRY TRENCH** (SOIL/BENTONITE



The result. . . A poorly formed filter cake that is more permeable than the vibrated beam wall.

#### **BOUNDARY CONDITIONS**

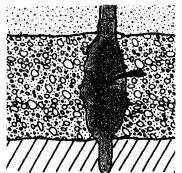


Backhoe or clamshell gives a scalloped bottom.

The result... By digging to the depth determined by boring this method does not always contact the impervious layer.

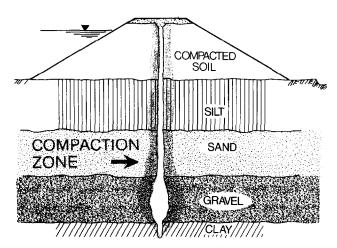
## Wibrated Beam

Vibrated Beam Slurry Wall Profile

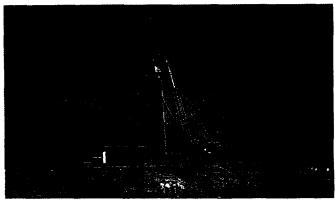


PURE SLURRY HOMOGENEOUS WALL (No Sediments)

**The result...** A very firm, very dense filter cake, with uniformly oriented bentonite particles... **the optimum impermeable barrier...** 



Our wall width is self-regulating, it becomes wider in pervious soils, narrower in impervious soils, and also acts to consolidate the more pervious soils, compacting and displacing soil to further reduce permeability.

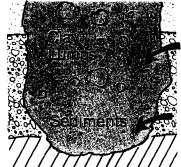


With our vibrated beam method, uncontaminated slurry is injected directly into the wall for final placement.

## Backhoe Clam Shell

4444...

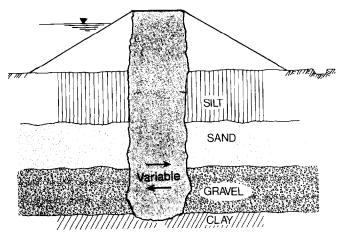
**Typical Slurry Trench Profile** 



SOIL & 1% or LESS BENTONITE

Permeable Sediment Zone

The result... A potential problem where pervious sediments are trapped at the boundary with the impervious layer, and the backfill is non-homogeneous, which requires air lifting.



The slurry trench regulates to the soils, but cannot consolidate the adjacent walls.



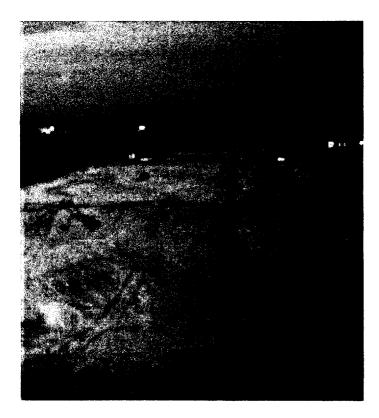
With the clam shell/backhoe method the slurry is contaminated during the excavation and backfill procedure, and is subjected to additional contamination during the mixing process (on the ground) and again as it is bulldozed into the trench.

#### STANDARD VIBRATED BEAM SLURRY MIX

**Approximately 6% Bentonite** by weight of H<sup>2</sup>0 **Approximately 10% Cement** by weight of H<sup>2</sup>0



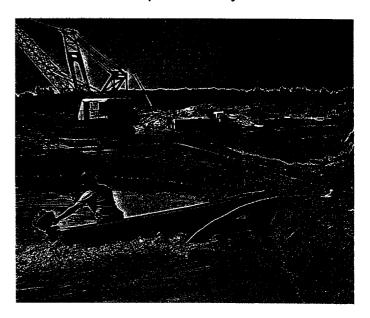
Our vibrated beam method gives a clean, safe job site. . . And inspection of material, quality and wall depth is accurate and easy.



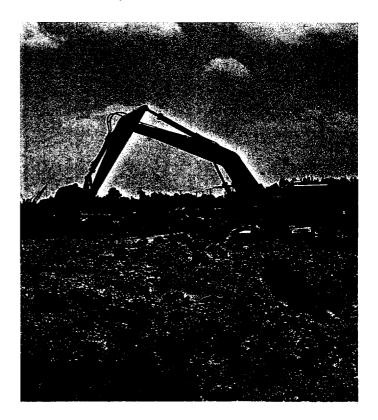
Our vibrated beam walls have a higher percentage of bentonite per square foot. Resulting in a higher quality wall with the least permeability.

#### TYPICAL BACKFILL MATERIAL

The original H<sup>2</sup>O content of 20%± in the excavated material, with the added slurry to form the requested cone slump of 4" to 6" results in a backfill that is extremely dilute and has overall non-uniform impermeability characteristics.



Clamshell/backhoe trench jobsites are messy and next to impossible to inspect or control, often resulting in unsafe conditions.



Clamshell/backhoe slurry trench, with diluted Bentonite in soil is subject to chemical attack, ground water erosion and degradation.





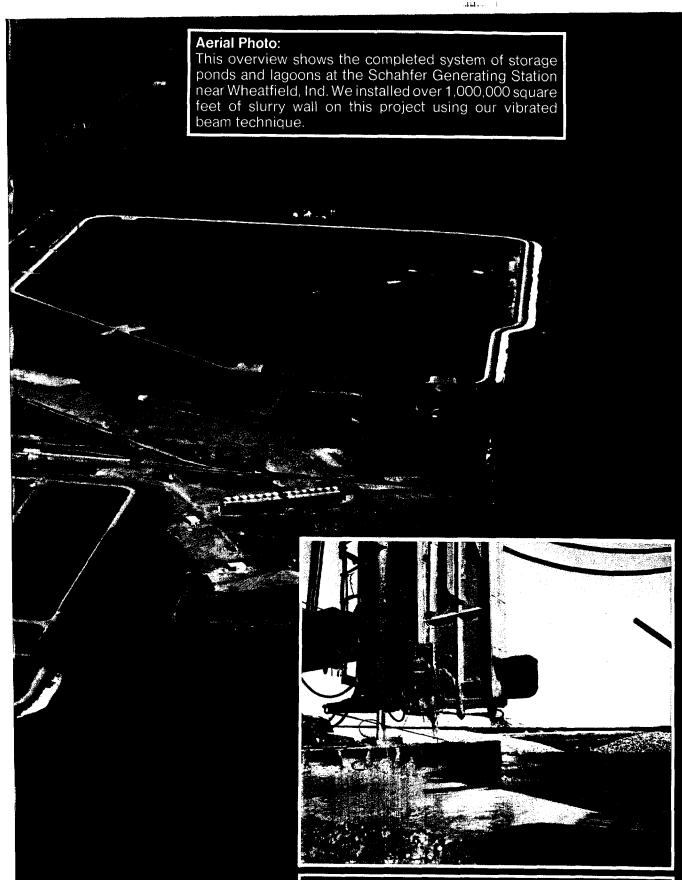
Before anything moves, we thoroughly plan each part of the whole operation. Whether it is a leaking storage pond or a complex dewatering system, we will work our all the details prior to starting the job.





We are continually looking for innovations and improvements to all phases of our operations. We have made significant advances in slurries, including our trademarked "second generation slurry" ASPEMIX which is capable of resisting concentrated acids and basic solutions.

An important part of our continuing research and development program in water impedance is the work of **Dr. Milton Harr**, **Dr. Sidney Diamond**, and **Dr. William Dolch**.



Our patented vibrated beam is hydraulically controlled both horizontally and vertically. The custom designed slurry is pumped under pressure through the injection nozzles at the tip of the beam.

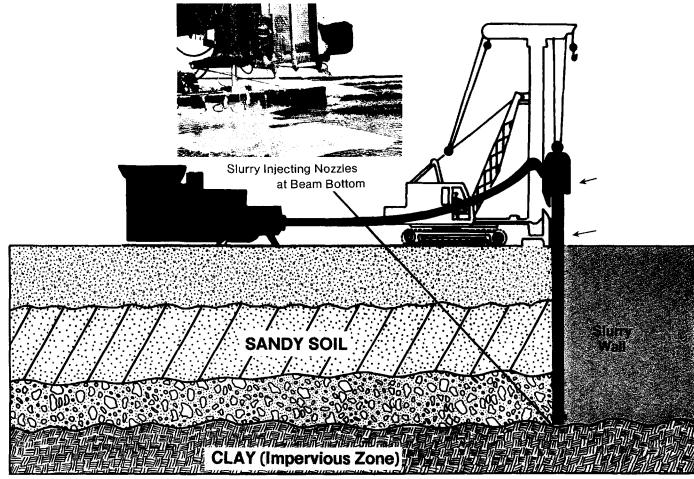
## Wibrated Beam

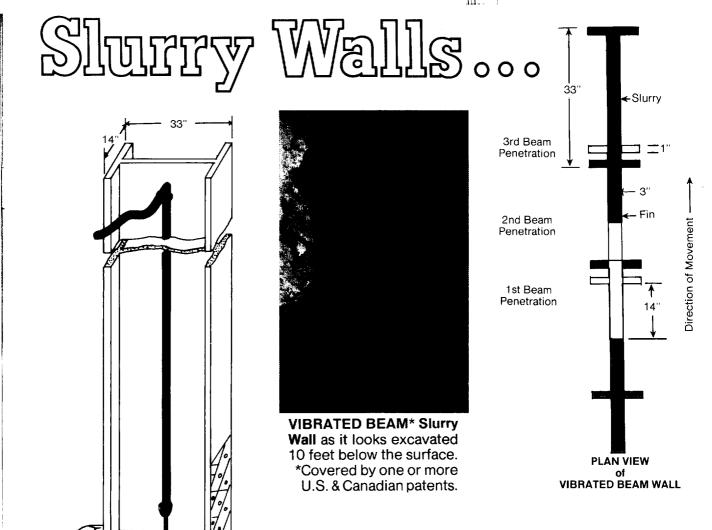
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The Vibrated Beam slurry cut-off wall installation is a highly efficient and low-cost method. Our unique system is applicable to construction dewatering, industrial holding ponds, fresh water retention reservoirs, pollution control, chemical waste holding ponds and wherever vertical barriers are required in permeable soils.

Construction of a vibrated beam slurry cut-off wall requires the use of a special crane suspended I-beam, connected to a powerful vibrator. The beam is locked in the guide frame for the exact positioning and stabilized by a hydraulic foot that provides guidance and aids in keeping the insertion vertical. Slurry is injected under pressure through a set of nozzles located at the base of the vibrated beam. At the completion of each panel, the rig is moved along the direction of the wall, the previous insertion is overlapped to insure continuity and the entire process is repeated. The result...a continuous slurry wall that works...

Quality Control is one of the strongest points of our vibrated beam slurry cut-off placement technique. Starting with the designed mix (formulated in our own lab) which is exactly duplicated in our field mixing plant and continuing with inspection during the beam insertion process, our work measures up. Our field tests include: Marsh Funnel to measure viscosity of the slurry, a check of Specific Gravity for per cent of solids in the mix, and a Filter Press to measure filtrate loss for quality of filter cake, of which all readings are recorded and kept for the client as a quality control record of the wall installation. Along with a log of all beam penetrations. Test data from independent testing companies verify our high standards of quality control.





Although our method of slurry wall placement is very unique, the vibrated beam is only part of the story. The mix we inject into the cavity left by the retraction of the vibrated beam is the real key to our success. We can, and do formulate slurries to fit specific conditions. For example, for use in impoundments and barriers for fresh water projects, we would compound a slurry of high quality Wyoming Bentonite, cement and water. The Portland cement is used for bonding strength, and erosion protection. We carefully prepare our slurry in portable mixing plants, under controlled conditions so the slurry can be checked and monitored for the designed properties and then pumped by positive displacement pumps through the beam nozzles to form the slurry wall.

DIRECTION OF MOVEMENT

For the containment of chemical and hazardous wastes, where bentonite based slurries would be adversely affected, we designed a totally new slurry, *ASPEMIX*®. This cold asphalt emulsion slurry has proven itself under the toughest conditions imaginable. It will chemically resist most known chemicals and hazardous wastes, standing up under conditions that would chemically destroy conventional slurry walls. Permeability testing of *ASPEMIX*® slurry cut-off walls shows less than 1 x 10<sup>-9</sup> cm/sec. But simply stated, our ASPEMIX® slurry walls can contain most known chemicals and hazardous wastes.

In landfills where we need to deal with concentrated leachates we custom design the slurry mix to be chemically compatible and provide an impermeable barrier. We have successfully designed and placed slurry where "conventional" methods have failed. With our vibrated beam technique we can place slurries of different compositions and design **TO MEET MOST CONDITIONS.** 

## ASPEMIX®

## The Second Generation Slurry

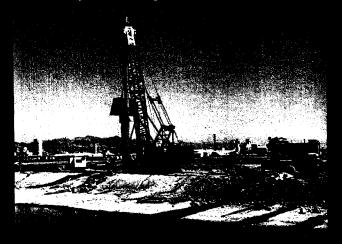
Our development of ASPEMIX® has enabled us to place effective slurry walls where conditions exist that would absolutely prohibit any conventional bentonite based slurry. This true "second generation slurry" ASPEMIX® is a cold asphalt base emulsion capable of resisting concentrated acids, basic solutions and other chemicals.



ASPEMIX® slurry design is carefully formulated, using asphalt emulsions - an intimate mixture of minute droplets of asphalt suspended in a continuous water phase. Molten asphalt is broken into droplets in the presence of water and emulsifier, keeping the droplets in suspension, to form the base of ASPEMIX® slurry. Chemically compatible filler is added to form a mix with a light creamy consistency, and this mix is then pumped into the ground by our vibrated beam technique, to form an extremely effective cut-off wall.

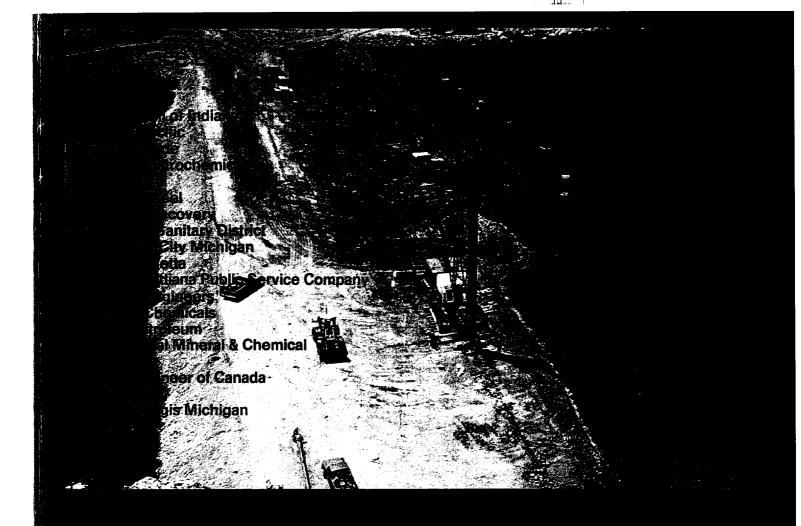


The properties of a completed ASPEMIX® cutoff wall vary with the properties of the materials incorporated into the slurry mix design. In addition to very low permeability, ASPEMIX® has fairly high compressive strength, very good resistance to chemical degradation, good bond and time proven longevity.



We have used ASPEMIX® quite successfully in the containment of hazardous and toxic wastes. When placed by our patented vibrating beam technique it results in an impermeable barrier (K = 1 x 10°9 cm/sec. - or less) at very moderate costs.

ASPEMIX\* works in the most demanding of circumstances...and it works well.



We are proud of our past accomplishments, and look forward to a significant amount of future work in the fields of pollution control, construction dewatering and water conservation. If you have a potential problem in any of these areas, we can be of help. As experienced contractors and consultants, we are able to provide the special people and the special equipment necessary to help solve your water barrier problems.

Fred Schmednecht
President
Slurry Systems
Division of
Thatcher Engineering Corp.





Aerial view of Slurry Systems office and storage yard in Gary, Indiana.

## Slurry Systems

**CONTRACTORS and CONSULTANTS A Division of Thatcher Engineering Corporation** 

Problem solvers in the fields of construction dewatering pollution control and water conservation.

## SLURRY SYSTEMS & CAROLINA SLURRY SYSTEMS

Introduce The New

Automated

SLURRY WALL CONSTRUCTION SYSTEM

for efficient,
low cost
cut-off wall
production



SLURRY SYSTEMS DIV. of THATCHER ENG.

7100 INDUSTRIAL AV. • GARY, IND. 46406 TEL. 219-949-0561 TELEX: 72-5427 (TEC GAR)

& CAROLINA SLURRY SYSTEMS

ROUTE 8, BOX 114 • RALEIGH, N.C. 27612 TEL. 919-782-2573

## A NEW, HIGHLY EFFICIENT SLURRY WALL CONSTRUCTION SYSTEM NOW AVAILABLE

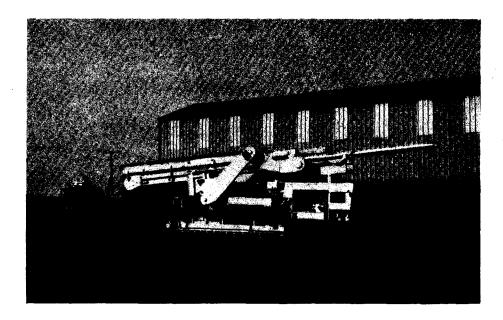
With the need to construct slurry trenches at a faster rate and at a lower cost than previously attainable, a new system has been created. This machine and its basic system was developed in Europe and brought to the United States by Slurry Systems Division of Thatcher Engineering Corporation, Gary, Indiana, where it was modified to meet slurry trenching specifications.

Basically, this rugged machine has a continuous digging chain mounted on a self-propelled vehicle. By adding certain additional requirements to this machine (patents pending) and developing a technique to supply slurry to it, a new system for constructing slurry walls was developed. Depending on the parameters of the project, i.e. specific ground conditions, depth of the trench and the content of the slurry mixture, speed and ultimate cost per foot of trench will vary.

The modified machine is capable of digging to a depth of 24 feet and 12 inches wide. Under ideal conditions it can dig 1000 feet plus of slurry trench per day at maximum depth. For example A project of 20,000 sq. ft. can be produced at the cost of approximately two dollars and fifty cents (\$2.50) per square ft. It should be pointed out that on jobs with less footage or if special slurries are required (Aspemix, etc.), rates are somewhat higher.

As the machine excavates the trench, a plough sled is pulled along. This design feature prevents sloughing of the trench, recycling of excavated material back into the trench, and is used to control the level of the slurry in the trench. Slurry is pumped to trench through a 4 inch hose. The special and undiluted slurry in the trench effectively prevents sidewall collapse and in a few short hours an impermeable barrier is achieved.

A modification to the boom prevents slurry from entering the digging chain area by the use of the slurry gate (patent pending), which reduces waste considerably, Depending on the project, a



variety of different slurries and custom mixes can be used. Among the most common are cement/bentonite or fly ash/bentonite mixes. Cement bentonite mixes are generally used when higher compressive strength is required in a slurry wall. Much of the make-up of the slurry mixture depends on the pollutants or chemicals to be contained by the cut-off trench.

Specifications of the machine are very impressive and point to long operational life under continuous use. A (12) twelve cylinder Deutz Diesel produces 396 net horsepower (SAE) that transmitts power through forward and reverse gears to the final hydrostatic/mechanical drive. This rugged piece of equipment is 360 cm (140.4 in.) wide and carries a weight of 32,000 kg. (70,560).

In actual production this new Slurry Wall Construction System is expected to perform extremely well on a variety of projects. This equipment, according to its developer, Slurry Systems Division of Thatcher Engineering Corporation, will ultimately be used on all slurry trench cut off projects where conditions are applicable. This machine will produce the most economical and quality controlled slurry cut-off wall available today.

#### CAROLINA SLURRY SYSTEMS

SPECIALTY CONTRACTORS

ROUTE 8. BOX 114 . RALEIGH, N. C. 27612

(919) 782-2573

M HARMSTON

44.



## WE'RE MOVING CAROLINA PILE DRIVING CORP. AND CAROLINA SLURRY SYSTEMS

Our new location is on State Road 1002 Sorrell Grove Road, Morrisville, N.C. between N.C. 54 and I-40

Mailing Address: POST OFFICE BOX 360

**MORRISVILLE, NORTH CAROLINA 27560** 

PHONE:

(919) 467-7892

Target Date for Moving MAY 18 1982

CPPC

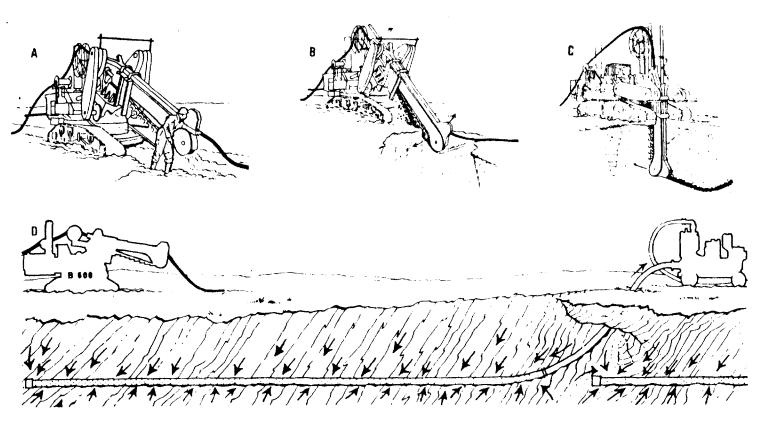
MORRISTILLE

#### **OPERATION**

(Fig. A) The digging boom is lowered to just above ground level before the digging chain is started and the boom set to the correct digging depth. The 'Drainflex' plastic pipe is fed in through the sleeve at the back of the cutters.

(Fig. B) The digging chain is then started with the machine stationery and the boom hydraulically placed in to the vertical position, describing an arc through the soil.

(Fig. C) At this stage the forward drive is engaged and the machine moves forward installing the pipe length at the required depth. Speed of travel and cutter speed are adjusted to suit the particular dig.



(Fig. D) At the beginning of a run (or the end if required) a sufficient quantity of unperforated suction line is fed through for connection to the pump at ground level. At the end of the dig, with the cutting chain still operating, the digging boom is retracted by being raised vertically by the rams, then tilted through an arc

until it is above ground level.

The B600 machine is controlled by the driver with the assistance of an additional hand who makes pipe connections and prepares the p.v.c. pipe for installation.

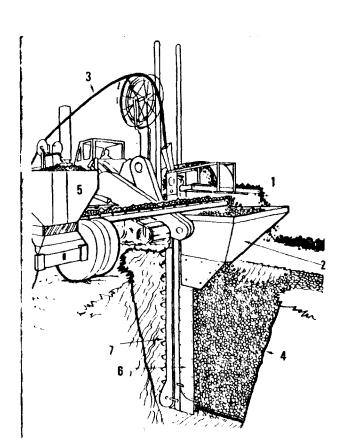
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#### DEEP DRAINAGE

The B600 machine when equipped with

(1) spoil discharge conveyor and (2) aggregate feeder hopper, excavates the necessary trench, lays a (3) perforated p.v.c. pipe, and refills with controlled grading of (4) granular material in one complete operation. This type of work can be carried out quickly and efficiently in unstable ground conditions which normally require trench shoring, and other costly and time consuming site activities, including the use of additional plant. During operation spoil is discharged by means of a conveyor, while granular filter material is continually placed in the open trench by hopper feeder. This, in turn, is kept charged by (5) an aggregate supply unit which incorporates a feed regulator.

(6) Distribution guides ensure the correct placing of media throughout the full depth and width of the trench, and prevent contamination from surrounding material. Aggregate placing is further aided by vibration due to the movement of (7) the cutting chain transmitted through the guides. Should grading be desirable, the height to which the initial material is placed may easily be controlled by an adjustable gate at the distribution guide. Further layers would then be added from a separate source. Apart from speed, simplicity and economy, use of the B600 system of drainlaying requires the minimum of aggregate due to the narrowness of the trench and the method of preventing collapse while the aggregate is placed. It may be operated on slopes of up to twenty degrees.



### CAROLINA SLURRY SYSTEMS

ROUTE 8 - BOX 114
RALEIGH, NORTH CAROLINA 27612

(919) 782-2573

9 June 1982

Water and Air Research Post Office Box 1121 Gainsville, Florida 32602

Attention: Mr. Hugh Putnam

Gentlemen:

Carolina Slurry Systems and Slurry Systems are single discipline organizations of professional engineers, contractors and consultants that offer a variety of construction-oriented engineering services in the field of water impedence and chemical pollution control by using specially designed slurries to contain most known chemicals, brines and polluted effluents. We maintain our own laboratory to offer clients a wide range of specially formulated slurries to impede water pollutants to the specified K-factor of impermeability.

Our equipment for vibrated slurry wall construction consists of cranes and vibrated beam equipment ranging from 30 to 150 ton capacity. For the construction of impervious pond liners, we have a continuous mixer (250 tons/hr) capable of using sand or soil and exact amounts of bentonite per unit of volume to give the desired impermeability to the impervious layer. For trench depths up to 24 feet, we utilize our specially designed deep trencher. This trencher can cut a trench 11" wide and refill it with an undiluted bentonite-cement and water slurry or bentonite-fly ash water slurry, or any other combination tested to withstand the chemistry of the intended effluent to be contained. For special cases where a bentonite base liner or slurries would be adversely affected chemically by the polluted effluents, we can offer our trademark slurry, "ASPEMIX", a cold asphalt emulsion base capable of resisting most known chemicals.

Although the bulk of our activity is concentrated in Illinois and Northern Indiana, our projects include work in Missouri, Michigan, Wisconsin, Pennsylvania, Florida, Mississippi, Maine and North Carolina. The Southeast United States is served by Carolina Slurry Systems, located in Raleigh, North Carolina.

With our advanced techniques for water and waste chemical effluent containments, we would like to offer our services for your present or future consideration.

Enclosed is literature related to the types of work we have performed for various clients.

Sincerely yours,

ann P. Danneto

James R. Harmston

Enclosure

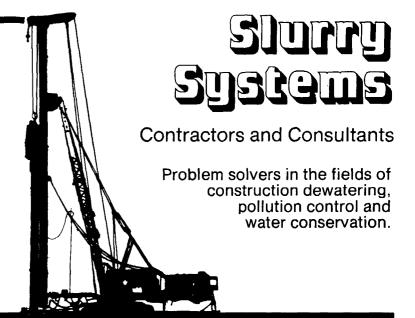
# Slurry Black Magic! ASPENIX

A revolutionary new development in slurry wall technology!

Aspemix, a cold asphalt emulsion slurry is capable of resisting most known chemicals as a slurry cut-off barrier. Resistant even to concentrated acids and basic solutions. Aspemix slurry cut-off would be highly recommended for the containment of hazardous and toxic wastes.

Custom designed Aspemix slurry placed by our patented vibrating beam techniques will result in an effective impermeable barrier (K=1 x 10<sup>-9</sup>cm/sec) and at very moderate cost.

For more information about Aspemix slurry cut-offs just call (219) 949-0561, or your nearest Aspemix consultant listed.



### **SLURRY SYSTEMS**

A division of THATCHER ENGINEERING CORP. 7100 Industrial Avenue Gary, Indiana 46406

(219) 949-0561 Telex 72-5427

### **CAROLINA SLURRY SYSTEMS**

Route 8, Box 114
Raleigh, North Carolina 27612
(919) 782-2573

### **JEBCO SLURRY SYSTEMS**

1339 Chestnut Street Philadelphia, Pennsylvania 19107 (215) 893-4100

### **GROUND SLURRY SYSTEMS**

415 Seventh Avenue Regina, Saskatchewan Canada S4N4P1 (306) 569-0576

### **DUTRA SLURRY SYSTEMS**

P.O. Box 338 Rio Vista, California 94571 (707) 374-6339



October 1, 1980

OCT 2 1980

Frank Zlamal Slurry Systems 7100 Industrial Avenue Gary, Indiana 46406

STS Job No. 21778

Dear Mr. Zlamai:

As per your instructions, a permeability test was performed on an asphalt slurry wall mixture, using the leachate provided by your company. The specimen labeled "North Wall 100 ft east of west wall intersection" was chosen for the test. The permeability test was performed for a total of 16 days. In accordance with your instructions (as per our telephone conversation on September 25, 1980), the test was terminated because we were unable to achieve a flow through the specimen.

The specimen was set up in a triaxial chamber which enables much quicker sample saturation than a normal permeameter. The rubber membrane which is placed around the specimen to isolate the sample from the water in the triaxial cell, conforms to the surface contours of the sample thus eliminating the possibility of fluids channeling around the specimen and giving an inaccurate permeability value.

A head of 1090 cm was initially placed on the specimen. Two days later the head was increased to 2090 cm and three days after the specimen was set in the chamber, the head was increased to 8090 cm. Both the fluid entering and leaving the specimen was monitored, however, at the end of the sixteen day period, there was no visible sign of fluid entering or leaving the specimen. The saturation lines were periodically checked to insure that they were not clogged and that there was an uninhibited flow to the specimen.

Based on the permeability test performed on the sample, using the leachate provided, the implication is that the material has either a very low permeability or is completely impermeable with the leachate used.

We have calculated permeabilities for a hypothetical case with the same pressure and equipment, and a sample of the same dimensions, asuming different amounts of fluid passed through the sample. These calculations are listed in Table I. We believe the permeability of the asphalt slurry material could be determined in the laboratory providing a long term test is anticipated, possibly several months and equipment capable of measuring minute volumes of fluid is utilized.

Chemical reaction between the leachate and sample should be explored as a methanism which could after the permecbility of the material.

If there are any questions regarding this report or its contents, please give as a

Sincerely,

Norman L. Hyndman, P.E. Project lingineer

强烈之一 理 湿.

William P. Duinn Laboratory Director

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enici.

AELE !

Assumed Annung of Fluid Pasted through Specimen (1113)	Hypothetical Permeanility (cm/sec)
3417	1 x 10 <sup>-8</sup>
37.9	1 x 10 <sup>-19</sup>
1,7	$1 \times 10^{-10}$
1.4	1 : 10-11

### **ABSTRACT**

VIBRATED BEAM TECHNIQUE FOR THIN SLURRY WALL BARRIERS - APPLICATION IN CONSTRUCTION AND ENVIRONMENTAL SITUATIONS

Schmednecht, F., Slurry Systems, 7100 Industrial Avenue, Gary, Indiana 46406 and Carolina Slurry Systems, Route 8, Box 114, Raleigh, North Carolina 27612

Construction dewatering has been an expensive and troublesome problem for many years. The problems stem from the boundary conditions, troublesome water volumes, and high pore pressures in embankments causing loss of shear strength and bank movements.

Using the Vibrated Beam Technique for the walls and taking advantage of a natural impermeable layer for the bottom, the construction excavation can now be isolated by this open top box configuration from the ground water table. The excavation can now be dewatered by a sump type system. This method has the benefits of minimizing damage done by offsite dewatering, reducing pump or well point maintenance and virtually eliminating additional or unplanned dewatering costs for future or extended construction schedules.

Water conservation and storage is currently one of the biggest problems facing the power industry and industry in general. The Thin Wall Installation Technique provides a water barrier that will stop leakage through dikes, levees, and embankments. Thus, water can be retained during spring flood periods and stored efficiently until it is needed by the power company or industrial plant.

Waste containment as dictated by ecology and stringent EPA requirements has created a major problem for industrial and urban environments. The problem is currently solved by transporting wastes to an acceptable holding area or providing an acceptable disposal site near the source of the waste. Granular or permeable soils are the big problems, and again, the thin wall with properly designed slurry mix to withstand chemical environments gives the isolation to the disposal site needed to meet the EPA requirements.

### OUTLINE

- A. History and Development
  - 1. Definition of Thin Slurry Cutoff Wall
  - 2. Comparison of Thin Slurry Cutoff Walls to Soil-Bentonite Slurry Trench Walls
- B. Application in Construction and Environmental Situations
  - 1. Construction Dewatering
  - 2. Water Conservation and Storage
  - 3. Waste Containment
- C. Site and Soil Conditions Best Suited for Thin Wall Installations
- D. Design Considerations for Permeability and Seepage Criteria
- E. Selection of Equipment
  - 1. Vibrator
  - 2. Crane and Leads
  - 3. Beam
  - 4. Slurry Mixing Equipment
  - 5. Logistics and Slurry Transfer
- F. Deep Trencher Development for Slurry Cutoff Applications
- G. "Aspemix" Cold Asphalt Emulsion Slurry
  - 1. Research
  - 2. Environmental Applications
- H. Cost
  - 1. Vibrated Beam Slurry Wall
  - 2. Deep Trencher

### A. History and Development

The vibrated beam technique for water barrier type Slurry Walls was started in Europe approximately 22 years ago. It is an improvement over the system where grout pipes were welded to individual interlocking sheet piles and then conventionally driven into the ground and grouted as they were extracted. This method was a very slow and expensive way of installing a grout or slurry curtain wall.

The vibratory driver-extractor which came into the commercial market in the late 1950s and early 1960s provided a machine that could both drive and extract a pile without changing from a conventional hammer to an extractor. Because of the vibratory (hammer-extractor) a new technique of reusing the same beam element and overlapping with the previous beam insertion was brought into use. This overlapping helps insure a continuous wall.

The "WF" structural element was used because of its good column strength properties and narrow web. The web gives a thin wall section and the flanges insure a good section modulous for the beam.

This technique has successfully been used to install in excess of 50 million SF of thin slurry wall in Europe as of 1974 with no known failures. In the United States in excess of 1 million SF has been successfully installed with many improvements being made on equipment, slurry quality, and installation techniques.

- A.1 Definition of a Thin Slurry Cutoff Wall is any wall made with a cement-bentonite (C-B) mixture with a wall width of one to twelve inches. The sole function of the wall is the impedence of the flow of water.

  This impedence however, gives many structural advantages to earth support in dikes and berms.
- A.2 The physical makeup and advantages can best be explained by comparing it to the American Soil-Bentonite (S-B) Slurry Trench.

### Materials

- a. Thin Wall Cement-Bentonite 15 cm Wall 9kg of bentonite/m<sup>2</sup> of wall.
- b. Slurry Trench Soil-Bentonite 75 cm Wall 8 or less kg of bentonite/m<sup>2</sup> of wall.

### Equipment (Determines width of trench)

- a. Thin Wall Vibrated Beam and Trenching Machine (one to twelve inches).
- b. Slurry Trench Backhoe, Clamshell, and Dragline (one to ten feet).

Minimum width is three feet if S-B backfill is pushed into trench by dozer; less than three feet would restrict free flow of backfill material.

### Filter Cake

- a. Thin Wall (Filter cake is dense and undisturbed).
  Low filtrate loss is indication of firm and dense filter cake.
- b. Slurry Trench Filter cake is created while the trench is excavated and could be disturbed by the excavation and backfilling operation.

### <u>Ge</u>l

- a. Thin Wall Bridging effect of cement plus deeper penetration due to injection pressure.
- b. Slurry Trench Normal penetration due to staticHD pressure.

### Backfill

- a. Thin Wall Cement-bentontite is homogenous and gives excellent bridging and erosion protection.
- b. Slurry Trench Lacks quality control in both mixing and backfill placement.

### Width of Wall

- a. Thin Wall One inch to 12 inches and gives maximum concentration of quality bentonite.
- b. Slurry Trench Depends on the equipment used to excavate trench.

### Economical Depth

- a. Thin Wall Presently in excess of 80 feet (as equipment improves, possibly deeper).
- Slurry Trench (Depends on equipment used).
   Backhoe 48 feet; Calmshell in excess of 100 feet.

### Impermeability (Average)

- a. Thin Wall  $k = 1 \times 10^{-7}$  cm/sec (C-B)  $k = 1 \times 10^{-8}$  cm/sec (Aspemix)
- b. Slurry Trench  $k 1 \times 10^{-5}$  cm/sec (S-B)

### Quality Control

a. Thin Wall - Mixing of slurry is done under batch plant controlled conditions and placed or injected directly into its permanent wall location. b. Slurry Trench - Mixing of slurry is usually very crude at best; slurry is mixed with backfill by some type of dozer or grader; the S-B mixture is pushed into the trench. It is virtually impossible to maintain quality control with this system.

### B. Application in Construction and Environmental Situations

B.1 Construction dewatering has been an expensive and troublesome problem for many years. The problems stem from the boundary conditions, troublesome water volumes, and high pore pressures in embankments causing loss of shear strength and bank movements.

Using the Vibrated Beam Technique for the walls and taking advantage of a natural impermeable layer for the bottom, the construction excavation can now be isolated by this open top box configuration from the ground water table. The excavation can now be dewatered by a sump type system. This method has the benefits of minimizing damage done by off-site dewatering, reducing pump or well point maintenance, and virtually eliminating additional or unplanned dewatering costs for future or extended construction schedules.

- B.2 Water conservation and storage is currently one of the biggest problems facing the power industry and industry in general. The Thin Wall Installation Technique provides a water barrier that will stop leakage thru dikes, levees, and embankments. Thus, water can be retained during spring flood periods and stored efficiently until it is needed by the power company or industrial plant.
- B.3 Waste containment as dictated by ecology and stringent EPA requirements has created a major problem for industrial and urban

environments. The problem is currently solved by transporting wastes to an acceptable holding area or providing an acceptable disposal site near the source of the waste. Granular or permeable soils are the big problems and again, the thin wall, with properly designed slurry mix to withstand chemical environments, gives the isolation to the disposal site needed to meet the EPA requirements.

Depending on the chemistry of wastes a variety of different slurries and custom researched mixes can be used for the cut off walls for the particular problem wastes and chemicals. The common slurries consists of cement-bentonite water in various proportions when higher compressive strength is required. Fly Ash-Bentonite and water are used for impermeability stability in reactive soils. For high saline conditions, bentonite-kaolin water slurries are beneficial.

### C. Site and Soil Conditions Best Suited for a Thin Wall Installation

Basically, a flat level surface approximately six feet wider than the width of the crane tracks will suffice for a horizontal working clearance. This can be an elevated surface such as on the top of a berm, on a flat surface at grade, or in the bottom of a trench. The geometry or plane view of the wall should be basically straight line segments, although curves made by rough chord segments can be negotiated. Vertical clearances will be determined by slurry wall depth plus an additional increment for height of the leads. (See Sketch No. 1 for typical dike cross-section).

Soils best suited for vibratory beam installation are the saturated loose granular type, although layers of clay and silt can be penetrated without too much difficulty or loss of efficiency.

Medium and stiff clays in thick layers are hard to penetrate and would have to be pre-trenched to continue the wall to a greater depth.

One of the best features of the thin wall is that it regulates its own width with the permeability of the encountered soil. In effect, the higher the permeability, the thicker the wall; conversely, the lower the permeability, the thinner the wall. This produces corresponding wall widths as they are needed to control seepage. Fine sand with a Darcy K Factor 1 X 10<sup>-3</sup> cm/sec produce minimal slurry infiltration into the sand voids. Therefore, the geometry of the wall left by the cross-section of the penetrating beam will be the size of the slurry wall.

### D. Design Considerations for Permeability and Seepage Criteria

The permeability is basically a function of the slurry materials and the mixing procedure. Basically, it can be said that the least impermeability will be achieved with the highest concentration of the most active natural bentonite particles in a dispersed orientation. Therefore, by using the correct mixing procedure, the best natural Wyoming Bentonite and chemical additives (if required), a highly impermeable plastic slurry wall will be produced.

We have studied the three parts of a slurry wall; namely, the gel, filter cake and backfill, to determine the relative effect each has on the average K Factor for the whole slurry wall. We know the filter cake is the main factor, and the width of the trench wall becomes less and less of a governing factor for seepage control.

The cement is added to the bentonite slurry for two purposes: 1) To give longevity or erosion protection to the slurry wall from migrating ground waters; and, 2) To increase the slurry bridging action so that a large amount of slurry material is not being wasted in a highly permeable or cobblestone-like soil strata.

The insitu pumping test performed at the Wheatfield site gave an average Darcy K Factor in 40 days of 8.7 X 10<sup>-8</sup> cm/sec. Thus, by using an average wall width of 3 1/2 inches and knowing the average differential hydraulic head, one can calculate the theoretical seepage passing thru the wall.

A very important side benefit of the beam action is the compaction and densification that it gives to the soil mass in the vicinity of the thin slurry wall. This will both reduce permeability and add to the shear strength of the soil mass.

### Engineering Design Considerations

- Theoretical Model The problem is either impoundment or construction dewatering and in either case one has to build a model and establish all the critical dimensions.
- Chemistry Chemistry of liquid to impound or dewater (construction site) is needed to check for adverse condition on the materials used in the water impedance system.
- Geology and Soil Data Geological history of the area along
  with a sufficient soil exploration program are needed to
  establish the necessary permeability and soil strength
  information for slurry wall and embankment design. Minimum
  boring information should be: soil classification, n values,
  grain size, distribution, depth to impervious layer or strata,
  and water table elevation.
- Average Differential Hydraulic Head To make a total seepage calculation one will have to know the maximum and minimum differential hydraulic head in contact with the slurry wall and the time each is in effect. From this, one has to

interpolate the average hydraulic head in contact with the slurry wall over the time involved in the calculation.

- Factor of Safety This will depend mainly on the permanence and liability of partial failure. The following are guidelines:
  - 1. Construction dewatering less 1.5 Factor of Safety than 6 months
  - 2. Construction dewatering greater 2.0 Factor of Safety than 6 months
- 3. Permanent systems

  3.0 Factor of Safety

  Structural Analysis In the thin wall technique, the strength of
  the berm or embankment in which the slurry wall is installed
  is the sole support of the system. It should be noted that
  the downstream side of the soil support system will be in a
  drained condition.
- Impermeability and Seepage Analysis Using the theoretical model for dimensions and the slurry wall and support system impermeabilities, it is possible to make seepage rate calculations.
- Weather and Dehydration Protection In any cement-bentonite system, it is recommended to cap or cover the completed wall to protect against freezing and drying.

### E. Selection of Equipment

E.1 The Vibrator: The vibrator is the most important piece of equipment, the most expensive, and the most likely to break down.

However, recent developments and improvements in the electrical and mechanical systems have made it a much more dependable and reliable machine.

Size and power will depend on depth of required penetration and density of material being penetrated. At the Wheatfield site, the tandem 4-75 PTC Vibrator as distributed by the L. B. Foster Company was used with great success. This vibrator uses four 75 H.P. electric motors to drive its eccentric weights thru the transmissions. The eccentric moment created was 6,940 (in lbs.) and the frequency was approximately 1000 cycles per minute. This can be varied somewhat by changing the electric drive sprocket ratios in an attempt to match the natural frequency of the soil being penetrated. The suspended weight of this vibrator is approximately 20 tons and in addition to this, the beam weight must be added to produce a total suspended weight. Calculations should be made for each job such that the vibrator is powerful enough to move the beam into the soil with enough amplitude and force to penetrate the soil media in question.

There other types and sizes of vibrators on the market with each having its own special advantages and applications.

It can be expected that the vibratory (driver-extractor) will improve in efficiency and dependability as time goes on and thus help reduce the unit costs of future slurry walls using this technique. (See Sketch No. 2 for typical vibrated beam setup).

E.2 Crane and Leads: The crawler crane should be sufficient capacity to handle the weight of the vibrator, leads, and beam with a safety factor of approximately 1.5. The operation is mainly a hoisting one and therefore, primary emphasis is on the line pull, line speed, and low maintenance hoisting equipment.

In our operations we use mostly the Manitowoc 3900 because of these features. Additionally, the section of counterweight can be replaced by a support frame with the vibrator generator sets for

balance, stability, and mobility. This makes a highly efficient and versatile vibrating beam setup.

The vibrator guiding leads are very similar to that used for tight tolerance pile driving installations with the following exceptions: 1) The vibrator dimensions are such that it has to be kept external to the lead; 2) The bottom of the lead has a vertical hydraulic support ram with a bearing pad to provide stability and thus, insure more accurate control on plumbness; and 3) The lead has a spotter that is adjustable to and from as well as laterally to the crane. Adjustability for plumbness control is very necessary to compensate for crawler crane instability over fairly loose and uneven ground.

By use of the hydraulic ground support pad, the lead becomes a loaded column with certain restraints. The lead design must take into account the loads and moments as an eccentric column.

E.3 Injection Beam: The injection beam is a standard "WF" section with enough moment of inertia and rigidity to maintain vertical straightness without bowing under the dead weight and forces of the vibrator. To this beam, wear plates are welded at the tip to give both dimensions and abrasion resistance. Also, slurry supply pipes are welded full length along with replaceable nozzles for the injection of the slurry.

In addition to the vibratory force, a jetting action thru the nozzles of the penetrating beam can be utilized to help the penetration rate, and also partially fill voids in highly permeable grounds.

At the Wheatfield Project 33", 30" and 27" WF sections ranging in weight from 150 to 190 lbs/ft., were utilized. The best

results came from a high strength 30 WF 190 with additional steel stiffeners added to the web section. This beam was far superior structurally; however, its abrasion or wear resistance seemed no better than an A36 beam of the same section.

In general, it can be said both the beam size and steel composition should be carefully selected to meet specific soil and job conditions. (See Sketch No. 2 for basic beam configuration).

E.4 Slurry Mixing Equipment: Vibrated Beam Slurry Wall Installation requires a high volume of slurry; therefore, both the jetting and shearing principles for mixing are employed. The mixing process starts by weighing both the bentonite and cement. The bentonite is augered from the weight batcher into a stream of water and continously pumped thru a centrifugal pump for approximately four (4) minutes. During this period, an addititive, if needed to protect the bentonite from cement contamination, is added. By providing this protection, the filtrate loss of the slurry is held to a relatively low value (less than 50 ml loss in 20 min. © 50 PSI). Next the cement is added and again mixed thru the pump for approximately another three (3) minutes. The slurry mixture is now ready to be stored or pumped to the vibrated beam injection rig. With a cement-bentonite mixture there is a limited life of pumpability or liquidity; therefore, only a limited amount of slurry should be premixed and stored ahead of time.

Before the vibrated beam slurry wall project is started, we conduct many tests in our lab to either verify the design engineer's data for the slurry design or, if our own design, to set the standards for the field duplication. These tests are directed at producing a wall of desired impermeability, uniform geometry and plasticity. These

features are considered to be the governing criteria for vibrated beam slurry wall construction. The plasticity is controlled by keeping the filtrate loss low and therefore, leaving a remoldable material of approximately 5 lbs/sq. in. While providing impermeability, it also allows for future jointing if needed, eliminates cracking, minimizes shrinking and wall subsidence, and provides a good boundary seal (not a cold joint) on any shale or rock-like layer. These properties should give this water barrier the best overall performance in controlling seepage.

Beam geometry and wall continuity is insured by utilizing a 3 1/2" X 14" fin welded to the vibrating beam tip along with the normal 4" beam overlap. (See Sketch No. 3 & 4 for insitu wall configuration).

E.5 Slurry Transfer: For each job the slurry transfer is studied for the best and most suitable batch plant location. By using positive displacement pumps, the slurry can be pumped into the injection beam effectively up to the distance of 2,500 feet. The other method is pumping from the batch plant to the injection rig storage tank. Because of labor costs, the direct pumping method into the injection beam is preferred. However, it should be pointed out that both longer pumping distances and extreme weather could force the situation to a slurry transporting method into the rig storage tank.

### F. Deep Trencher

The importance of cost is always a factor. However, one must realize this can vary considerably from one job site to another.

In an effort to provide cost reduction in slurry trench construction, the Slurry Systems Division of Thatcher Engineering Corporation developed a slurry wall system by using a deep trencher. The basic machine was constructed in Europe and brought to the United States where it was modified for slurry trench installations. A vertical digging continous chain mounted on a self-propelled tracked vehicle can excavate a trench 12" wide to a maximum depth of 24'. With modications that were made to the digging chain, it is possible to backfill the excavated area with undiluted slurry. A new slurry wall construction has been developed as a result of modifications made to this machine.

In light sandy soil the trencher is capable of digging 1000 plus lineal feet of trench at a full depth per day. As the trench is being excavated, a sled is pulled along and protects the trench from excavated materials reentering the trench. The sled also has a function of controlling trench erosion and collapse by utilizing a 3' deep by 6' long trench box. Undiluted slurry in the trench keeps the vertical sidewalls from collapsing and the impermeable wall is created. Major modifications to the boom were required to prevent the slurry from flowing into the digging chain cavity. A pneumatic flap device was designed extending the full depth of side wall (patent pending) which reduces the waste of slurry.

As for the trencher specification, a 12 cylinder Deutz Diesel supplies the power producing 396 net HP. Power is transmitted through the hydrostatic and gear drives. The machine weighs some 35 tons.

In summary, where applicable, this machine will produce an economical and high quality controlled cut-off slurry wall.

### G. Aspemix Research

G.1 Research: I would like to briefly describe the new type of slurry called "Aspemix." The slurry has been researched for Slurry Systems by a consulting team at Purdue University headed by Dr. Sidney Diamond.

The object of the investigation was to develop a formulation or series of formulations providing the required impermeability to Darcy's co-efficient of 1 x  $10^{-8}$  cm/sec., while being pumpable either to the Vibrating Beam Method or the Deep Trencher Method.

This Slurry consists of cement-asphalt emulsion, Fly Ash, sand and water. The extensive series of laboratory investigations were aimed at developing, testing and refining an appropriate combination for use as a permanent liquid barrier material capable of being applied by the vibrated beam or similar process. Although such mixes are necessarily more expensive than the bentonite-base slurries, they have a significant advantage in the degree of impermeability and resistance to attack by acids, brines and other industrial chemical wastes and strong pollutants.

The mechanical behavior of "Aspemix" slurry wall is exceedingly favorable. The modulus of elasticity is approximately 1500-2000 psi; thus, the impounded wall should deflect with ease in the event of soil movement.

G.2 Environmental Applications: As previously mentioned,
"Aspemix" slurry provides impermeability and chemical resistance to
acids and brines, and the test mixes showed virtually no sign of
attack from a host of chemically agressive fluids. Aspemix mixes
which have been exposed for prolonged periods or have had reasonable

amounts of water passage undergo an internal swelling and seal shut.

Permeability decreases with time of standing.

We see the application of "Aspemix" slurry in environmental situations where bentonite-base slurry's barriers would be adversely effected by wastes or pollutants to be contained.

### H. Costs

The important item of cost is always a factor. However, one must realize this can vary considerably from one site to another. In an effort to provide cost information the following prices are submitted:

### VIBRATED BEAM

Min:	imum Wall Thickness	Depth	Soil Densities	Cost
A.	1 inch	less than 20	less than 30	\$2.00/sq. ft. plus
в.	l inch	less than 80	less than 30	\$2.50/sq. ft. plus
c.	1 inch	less than 80	less than 60	\$2.75/sq. ft. plus
D.	3 inches	less than 80	less than 30	\$3.50/sq. ft. plus
E.	3 inches	less than 80	less than 60	\$3.50/sq. ft. plus

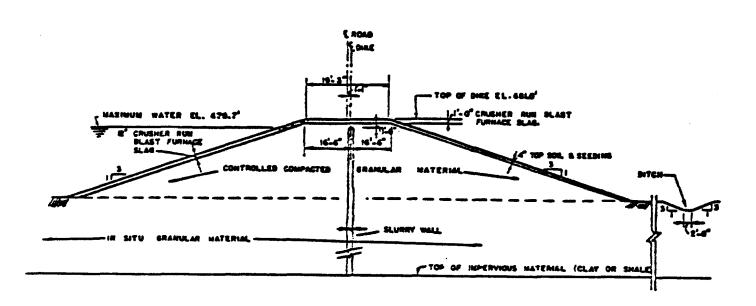
### "ASPEMIX" SLURRY WALL

### Priced on Request

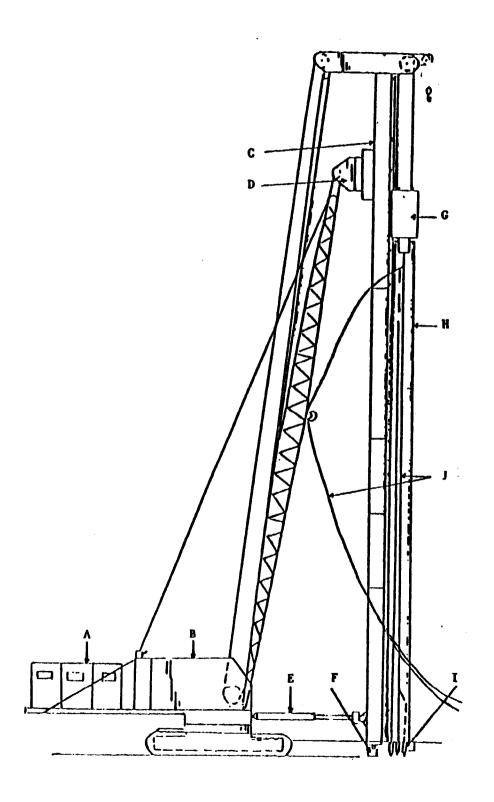
The preceeding does not include mobilization and extreme water supply or treatment problems.

### SPECIAL SLURRIES ON REQUEST

### Sketch No. 1

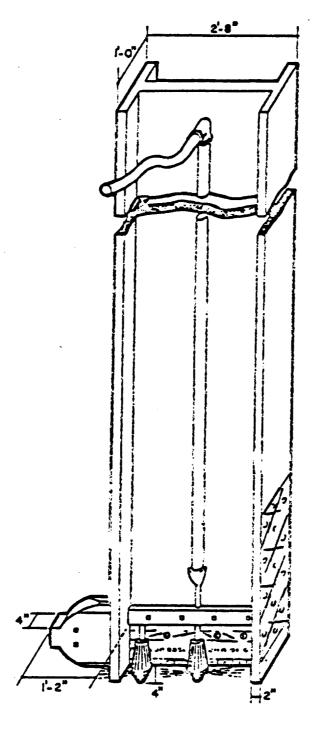


II.



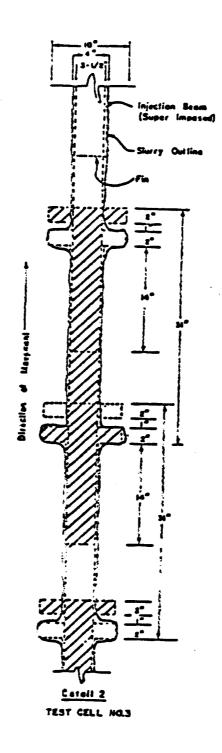
### TYPICAL VIBRATED BEAM INJECTION SET UP

- A. Generator Sets
- B. Crane
- C. Leads
- D. Boom Point Swivel
- E. Adjustable A Frame
- \* F. Support Foot
- G. Vibrator
- H. Injection Beam
- 1. Nozzles & Fin
- J. Slurry Injection Lines



DIRECTION OF MOVEMENT

BEAM CONFIGURATION FOR INSTALLATION OF TEST CELL 3 SCHAHFER GENERATING STATION



### Vibrating beam injects thin cutoff walls

A 10-year-old European method of placing slurry walls, imported here only last year, has chopped costs by one-third for a contractor building underground pollution barriers for a Midwestern powerplant.

"What we've done is to take the European method and make a lot of improvements on it," says Fred C. Schmednecht, vice president of Thatcher Engineering Co. (TEC) Waukegan, Ill. Officials from TEC and Calumet Trucking Co., Gary, Ind., visited several construction projects in France, Germany and Austria in 1974, to learn about the method.

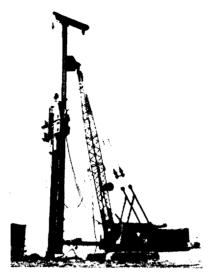
Calumet has the prime \$8-million contract for earthmoving and slurry wall construction around three wastewater treatment ponds at the Rollin Schafer coal-fired powerplant near Wheatfield, Ind. The plant is owned by Northern Indiana Public Service Co.

A joint venture of TEC and Phillip Holzmann AG, Frankfurt, will wrap up construction this month on 1.2 million sq ft of the 4-in.-thick wall. Nearly 5 miles of it, reaching an average of 45 ft deep, surround the three ponds. Because the entire site is underlain by a shale formation, the contractor simply extended the wall through the ponds' 20-ft dikes down to the shale.

"When we saw this slurry wall method working within 10 ft of the Danube River in Austria, we knew it could work here," says David R. Bihlman, president of Calumet Trucking. The procedure is called the vibrating beam injection method. Bentonitecement slurry flows through two pipes to three jets at the bottom of a vertical steel I-beam (see photo). As a 17-ton French-made vibrating hammer sinks the beam into the sandy soil, slurry is injected to lubricate the beam's downward path.

From the bottom up. The wall is built as the beam is pulled back up, because more slurry is injected during withdrawal, as it flows under the void left by the beam on the way up. Upon completion of one 40-in.-long section, the crane backs up and repeats the cycle. In 45-ft depths, the machine can put down about 90 ft of wall in a 24-hour day.

What makes the method new in this country are the injection method and the bentonite and cement mixture, says Schmednecht. He says TEC and Holzmann "spent all last winter experi-



Vibrating hammer sinks beam.

menting with 300 to 400 different mixtures, getting it to come out right." Besides bentonite and cement, soda ash and a phosphate additive go into each batch. The phosphate helps the bentonite retain its moisture as it hardens and keeps the clay-cement mixture from cracking. Schmednecht says the final product, a firm gel that is slick to the touch, has a design life of 40 years, mainly due to the permanence of the cement.

Bihlman and Schmednecht say that despite some equipment problems, if the soil is soft enough for the beam to penetrate, the vibrating beam method is superior to conventional slurry trench excavation methods. The Indiana job was bid at \$3 per sq ft, compared to \$4 or \$5 per sq ft for conventional methods using a clamshell or backhoe to excavate. Because the vibrating beam allows the contractor to inject a very thin membrane, the old 30-in.-wide trench, often slow to excavate with a clamshell, is not needed.

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To insure continuity in the wall, each time the crane backs up and the beam



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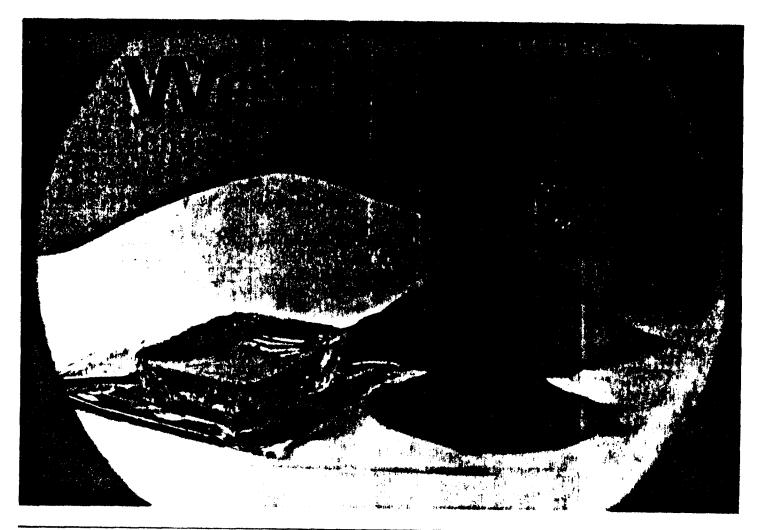
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## NEWS&VIEWS

Reporting news about Westvaco's people and activities at Charleston

DECEMBER, 1981

# FEATURING the Production and Marketing of RENEWABLE RESOURCE CHEMICALS







### **DUCK HUNTER'S PRAYER**

Lord, Eve oiled my gans and greased my boots I ve coulked my boot
And laid out my hunting sunt
Eve painted the decoys and counted my shells
Begged for time off at work
And listened to the old wife yell

Eve mended the boards on the broken dock Taught that black dog to fetch With my old hunting socks.

Put the motor on the boat And the coffee in the pot.

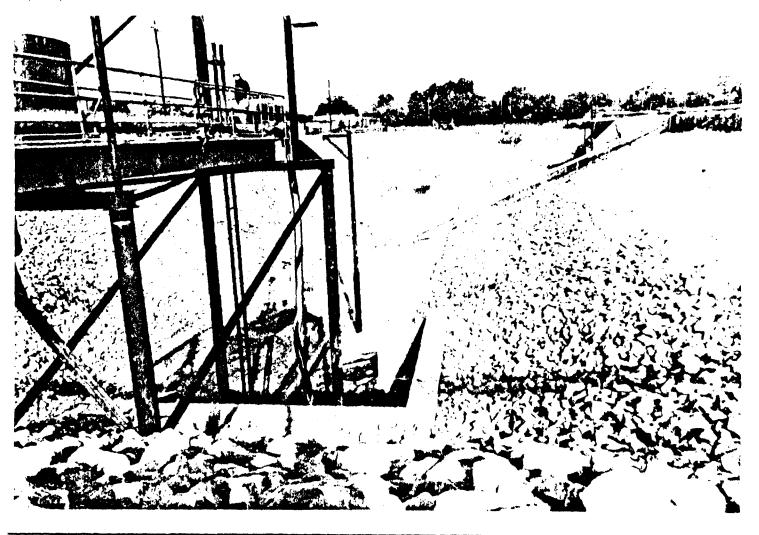
Morning's coming Lord it's opening day
So please shine the light of lack along my way
Of all the things Eve asked in the past.
The one request Ehope you If keep
Good Lord.
Blooms David to a second of the past.

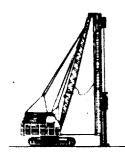
Please .Don't let me oversleep.

Legare M. Johnson

### **BLACK LIQUOR LAGOON READY FOR USE**

The huge, empty pond, pictured below was recently constructed by applying Slurry System's vibratory beam technique. A vertical wall of befonite and slurry mix was driven down, by means of a vibrating beam, into the dirt dike. The slurry wall meets with the shelf-marl strata, found common to the Lowcountry, and forms an impervious basin. The bottom of the deepest part of the excavation is formed by the natural marl. This black liquor lagoon has a 12 million gallon storage capacity.

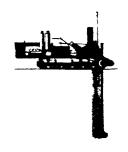




### Sluppy Systems

### **CONTRACTORS & CONSULTANTS**





### SPECIFICATIONS FOR ASPEMIX SLURRY CUT-OFF

### ASPEMIX:

Slurry Cut-off Wall, Vibrating-Beam Injection Method (Base Bid):

### A. General:

- a.1 Aspemix slurry beam wall shall be constructed to the lines, grades, and cross sections as indicated on the design drawings. The wall shall be essentially vertical. Approved Aspemix@ slurry mixture shall be pumped under controlled pressures through the underlying stratas and terminated at the top of the firm rock or "keyed" into other impervious material.
- a.2 Contractor shall submit evidence that he is competent to construct Aspemix@ (a cold asphalt emulsion) slurry wall. This evidence will insure that contractor or his subcontractor shall have sufficient competent personnel to carry out the operations specified, and such personnel (as approved by Purchaser prior to award of Contract) will have previous experience in this type of construction. In particular, a construction and Aspemix@ slurry specialist(s) shall be used to supervise the construction, slurry preparation, and quality control.

### B. Driving and Extraction of Vibrating Beams:

- b.l Equipment:
- bl.1 Construct the Aspemix@ slurry wall using suitable equipment for attaining required depth and continuity of the wall.
- b1.2 Vibrating beam shall have a web depth of 31 to 33 inches and a flange width of 12 to 15 inches. Beam shall be controlled by guide leads assuring plumbness in vertical plane within the limits of ± 1% and each insertion shall overlap previous insertion by a minimum of 4" of the beam depth unless otherwise requested by Purchaser.
- b1.3 Beam shall be driven by vibratory driver and extracted at a rate controlled by a pumping pressure between 75 and 100 psig or at a pressure at which the adjoining trench slurry level is maintained at the ground surface during the beam insertion. Both pumping pressure and maximum rate of extraction shall be to the satisfaction of the Consulting Engeres. Final beam depth shall be checked by noting resistance to pumping indicating penetration of vibrating beam onto impervious zone.
- b.2 Installation of Aspemix@ Slurry Wall:

- b2.1 Contractor shall construct a suitable working area on top of dike to provide free mobility of equipment and at all times maintain stability and appearance of dike embankment during the construction of slurry wall. Any damage to the dike shall be immediately repaired to the satisfaction of Purchaser.
- b2.2 Driving and extraction of vibratory beam and introduction of the Aspemix@ slurry into the pervious soil shall begin after construction of dike. Crane with vibrated beam insertion equipment shall travel along the toe of the slope or on top of dike.
- b2.3 Upon completion, the Aspemix@ slurry wall shall have a minimum thickness of 3 inches, have no gaps and be continuous.

### C. Slurry:

- c.1 Aspemix@ slurry shall consist of a stable cold asphalt emulsion anionic or cationic base, sand, water, and cement as follows:
- c1.1 Asphalt Emulsion-cationic: shall meet the requirements and typical applications for cationic emulsified asphalt as per ASTM D2397. A written certificate shall be supplied by the cold asphalt emulsion supplier, specifying the quality of the load shipment.
- c1.2 Asphalt Emulsion-anionic: Asphalt emulsion anionic shall meet the requirements and typical applications for the anionic emulsified asphalt as per ASTM D977. A written certificate shall be supplied by the supplier specifying the quality of the cold asphalt emulsion load shipment.
- c1.3 Sand: Sand shall be clean and free of the organic materials and 100% passing 4 mesh.
- cl.4 Cement: Portland Cement ASTM C150 Type 1. A written certificate specifying cement quality shall be given by cement supplier for each tank load shipment of cement received.
- c.2 Aspemix@ Slurry Requirements:
- c2.1 At time of injection Aspemix@ slurry for walls shall meet the following requirements:
- c2.1.1 Vicosity of Aspemix@ (cold asphalt emulsion slurry) shall be pumpable in the form of heavy liquid passing through the nozzles on the bottom of the injection beam.
- c2.1.2 Minimum Aspemix@ slurry mixture temperature shall be 45°F.
- c2.1.3 Upon completion of mixing the Aspemix@ slurry, the specific gravity shall not be less that 1.45gm per cubic centimeter, nor greater than 1.8 gm per cubic centimeter or as approved by the Consulting Engineers.

- c2.1.4 Contractor shall be responsible for meeting all above requirements.

  Completed wall sections failing to meet these requirements shall be repaired immediately to the satisfaction of the Purchaser.
- c.3 Contractor shall submit a written statement as to the use of any additional mixtures, such as retarders, and its effect on the Aspemix@ slurry mixture prior to its use.
- c.4 Aspemix@ slurry shall be pumped from a centrally located mixing plant directly into the injection beam. Aspemix@ slurry shall be injected under pressure at the same time as the beam begins to penetrate downward.
- c.5 Mixing Plant:
- c5.1 All Aspemix@ slurry for vibrating beam injection shall be mixed in an approved suitable continuous mixing plant. Mixing of asphalt emulsion, sand, water and cement shall continue until sand and cement particles are fully coated by asphalt emulsion and slurry is homogenous.
- c5.2 Slurry plant shall include necessary equipment including a mixer capable of producing a uniform suspension of sand and cement in a cold asphalt emulsion, sumps, pumps, valves, hoses, supply lines, small tools, and all other equipment, as may be required, to adequately prepare an Aspemix@ slurry. Contractor shall submit a sketch describing mixing plant operation including batch monitoring gauges, prior to its use.

### D. Water:

- d.1 Water shall be clean, fresh, and free from oil, acid, alkali, organic matter, or other deleterious substances. Contractor shall supply all the required water. Contractor is responsible for changes in the water chemistry and its effect on cationic and/or anionic asphalt emulsion.
- E. Treatment of Top of the Aspemix@ Slurry Wall:
  - e.1 Whenever temperatures are anticipated to be 32°F, or less, suitable cover, as approved by Purchaser, shall be placed over the Aspemix@ slurry wall to prevent freezing.
  - e.2 After the approved period to time, the initial layer over slurry wall shall not be more than 12 inches thick and compacted with pneumatic or static cylindrical rollers or any approved equipment, provided such equipment does not have any projection or tamping feet which will penetrate or damage aspemix slurry wall.

### F. Clean-Up:

f.1 After completion of Aspemix@ slurry wall, all excess slurry shall be disposed of as per instructions of Purchaser.

### ASPEMIX (con't)

### G. Quality Control Testing:

- g.l The quality of the Aspemix@ slurry mixture at time of injection into pervious soil shall be verified by tests made by Purchaser at least twice daily.
- g.2 Contractor shall fully cooperate with Purchaser in conducting all tests.

  The results of tests carried out shall be final and conclusive in determining compliance with the specifications.

### H. Cationic and/or Anionic Aspemix@ Slurry

h.1 Typical slurry composition shall be within the following range of:

Asphalt emulsion	36-40%
Sand	50-55%
Water	8-12%
Cement	2-6%

## CONSTRUCTION DIGEST. January 8, 1976

1970 Forecast, P. Do

Slurry injection seals power plant dikes

■ More than a million sq. ft. of 3.5-in.-thick impermeable slurry membrane has been installed at a northern Indiana power plant, the first slurry installation of its kind in the United States.

Although slurry walls have been placed at numerous construction projects in the U.S., this is the first time a vibrating beam injection method has been used in this country.

The membrane was placed by Thatcher Engineering Co. of Gary, Ind., and Phillip Holtzmann of Frankfort, Germany, as a joint venture under subcontract to Calumet Trucking Co., Gary, Ind. A new company, Slurry Systems Specialists, Inc., has been formed between Calumet Trucking Co. and Thatcher Engineering. The new company is capable of handling all types of water impervious barriers and consulting work.

The beam-injected slurry wall is designed to prohibit liquids from seeping through dikes surrounding retention basins at the Northern Indiana Public Service Co. (NIPSCO) generating plant under construction at Wheatfield, Ind.

The dikes were first built up to approximately 17 ft. high after two to three ft. of unsuitable materials were removed and backfilled with sand. Calumet Trucking Co., the prime earthmoving contractor, built the dikes on a 3:1 slope, 100 ft. wide at the bottom and 20 ft. across on top.

All together, some 25,000 lin. ft. of dikes surround three lagoons, the smallest of which has a circumference of 7800 ft., according to Hal Page, Calumet's project superintendent.

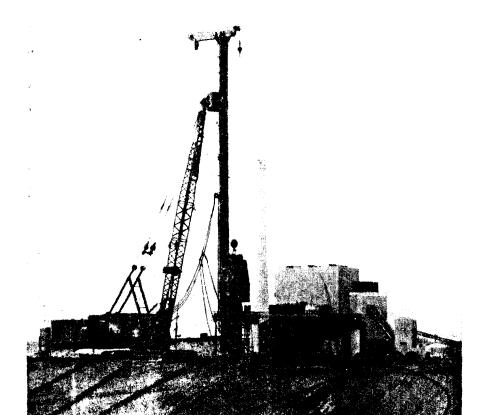
When the dikes reached the 17 ft. level, two Manitowoc 3900 cranes, each hoisting tandem PTC 475 vi-



FOREMAN directs crane operator during positioning of injection beam that places 3.5-in.-thick slurry wall as it is driven into dike.

### Slurry injection makes its U.S. debut on Indiana project

**INJECTION BEAM** is vibrated into dike by PTC 475 vibratory extractor on fixed lead handled by a Manitowoc 3900 crane.

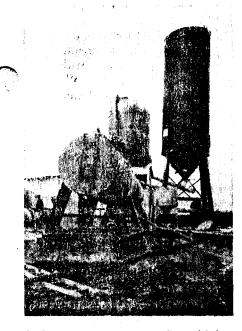


bratory extractors and a specially designed injection beam, straddled shallow trenches on top of the dikes.

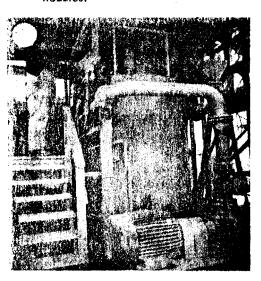
"The slurry material was vibrated through the dike and into impervious soils under the dike," said Frank Zlamal, technical consultant for the newly formed Slurry Specialists firm. "The beams are up to 75 ft. long, are 33 in. deep and have a 14-in. guide flange. Welded to this beam are pipes through which the slurry is pumped to three hardened alloy nozzles at the bottom of the beams.

"As the beam, which is on a fixed lead, is vibrated down through the dike and to the impervious soils, slurry is released through the nozzles, acting as a lubricant and at the same time filling voids," Zlamal said.

When the beam reaches the desired depth, it is extracted slowly, "... no more than 10 ft. per minute. When we get to the top, the extracted beam is repositioned 29 in. ahead and in line with the previous insertion," Zlamal added. "This leaves a



SLURRY is mixed in one of two highvolume production units (above) then pumped up to 2200 ft. through four in. PVC hoses to injection unit (below) housed in trailer towed behind crane. High-pressure pump in the injection unit pushes the slurry through injection beam nozzles.



four in. overlap to insure a continuous wall with no gaps."

On the average it takes 3.5 minutes to insert the beam and approximately the same amount of time for the extraction process for each section of wall.

"The soils we are going through are primarily sand and in some cases a layer of gravel and hard-pan clay above the shale," according to David Bihlman, a partner in Calumet Trucking and officer of SSS.

"In almost every drilling instance there is an impervious clay layer over the shale, and the beam's nozzles just touch the shale at the bottom of its thrust. On the average we are installing the slurry wall about 45 ft. deep, with variations up to 12 ft.," Page explained.

The carefully mixed, carefully controlled slurry was mixed in three m³ batches in mixing plants that were generally located in the center of the lagoon areas. "We use a 'Western Bentonite,' which is of higher quality than European mixes," Zlamal said. "This is bentonite in its natural state with no additives."

Mixing of the slurry was important, because it was pumped a maximum of 2200 ft. from the batch plants to a trailer-mounted reservoir behind the crane. A Moyno pump on the enclosed trailer high-pressures the slurry into the injection beam nozzles.

Fred Schmednecht, vice president of Thatcher Engineering and an officer in SSS, noted that there were very high standards required by NIPSCO specifications. "There is probably more control on this slurry than on any other slurry job in the country, as far as testing and installation goes.

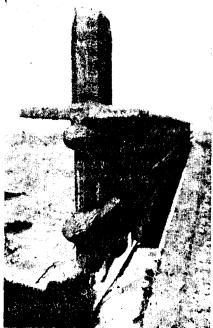
"Each mix is very carefully calibrated and documented, and weights and pressures are recorded. The mix has to be exact, or gelation could set in between the mixer and the injection rig. Once the slurry is injected in the dikes, it begins to gel immediately," the engineer said.

When Calumet Trucking and Thatcher first suggested the slurry wall injection method to NIPSCO, a test cell was constructed and monitored by Sargeant & Lundy Co., Chicago, the consulting engineers for NIPSCO and design engineers for the project.



superintendent Hal Page checks slurry wall test cell (above) built prior to start of project. Guide flange, alloy nozzles and slurry feed lines are welded to injection beam (below).





Zlamal said that after a recent inspection, ". . . we found that the test section checked out considerably better than we had anticipated in our bid specifications."

"The quality control is control which you can see," Schmednecht said, "and it is much better as far as we are concerned for producing a completely impervious barrier. Economically this is less expensive

to place than the open-trench slurry system."

Zlamal, Schmednecht, Page and Bihlman studied the system at several European jobsites and brought the idea back to Indiana with them. "We are in effect pioneering this system in the United States," Zlamal said, "and we have been constantly making refinements in the configuration of the beams and nozzles and

in the batching plants and procedures."

"We had to work and experiment with our construction procedures to establish the exact system with which to handle this process. We used some 6000 tons of bentonite cement during placement of the 1.2 million sq. ft of wall," Schmednecht added.

Calumet Trucking Co. partner David Bihlman said the initial earthmoving contract includes approximately one million cu. yds. of excavation and embankment, plus about 200,000 tons of stone rip-rap placement inside the dikes.

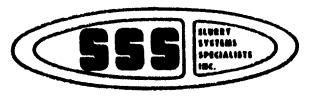
"We've been working on this project for about 3½ years, starting with initial clearing and stake-out work," Bihlman said. "We have been using International scrapers to handle the sand for the dikes."

Bihlman added that much of the sand being used in the dikes is coming from sand dunes on the site, and that any borrow areas have to be covered with topsoil and seeded.

STONE rip-rap is placed on dike by Koehring 1066 backhoe.



### ALL TYPES OF SLURRY TRENCHES & WATER BARRIERS



### Slurry Systems Specialists, Inc.

P.O. BOX 364 • EAST CHICAGO, INDIANA 46312

TELEPHONE 219-949-0561 FRED SCHMEDNECHT PRESIDENT

# Vibrating beam injects thin cutoff walls

A 10-year-old European method of placing slurry walls, imported here only last year, has chopped costs by one-third for a contractor building underground pollution barriers for a Midwestern powerplant.

"What we've done is to take the European method and make a lot of improvements on it," says Fred C. Schmednecht, vice president of Thatcher Engineering Co. (TEC) Waukegan, Ill. Officials from TEC and Calumet Trucking Co., Gary, Ind., visited several construction projects in France, Germany and Austria in 1974, to learn about the method.

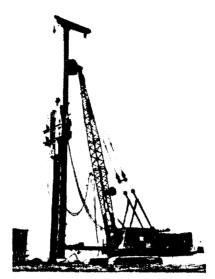
Calumet has the prime \$8-million contract for earthmoving and slurry wall construction around three wastewater treatment ponds at the Rollin Schafer coal-fired powerplant near Wheatfield, Ind. The plant is owned by Northern Indiana Public Service Co.

A joint venture of TEC and Phillip Holzmann AG, Frankfurt, will wrap up construction this month on 1.2 million sq ft of the 4-in.-thick wall. Nearly 5 miles of it, reaching an average of 45 ft deep, surround the three ponds. Because the entire site is underlain by a shale formation, the contractor simply extended the wall through the ponds' 20-ft dikes down to the shale.

"When we saw this slurry wall method working within 10 ft of the Danube River in Austria, we knew it could work here," says David R. Bihlman, president of Calumet Trucking. The procedure is called the vibrating beam injection method. Bentonitecement slurry flows through two pipes to three jets at the bottom of a vertical steel I-beam (see photo). As a 17-ton French-made vibrating hammer sinks the beam into the sandy soil, slurry is injected to lubricate the beam's downward path.

From the bottom up. The wall is built as the beam is pulled back up, because more slurry is injected during withdrawal, as it flows under the void left by the beam on the way up. Upon completion of one 40-in.-long section, the crane backs up and repeats the cycle. In 45-ft depths, the machine can put down about 90 ft of wall in a 24-hour day.

What makes the method new in this country are the injection method and the bentonite and cement mixture, says Schmednecht. He says TEC and Holzmann "spent all last winter experi-



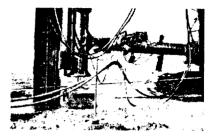
Vibrating hammer sinks beam.

menting with 300 to 400 different mixtures, getting it to come out right." Besides bentonite and cement, soda ash and a phosphate additive go into each batch. The phosphate helps the bentonite retain its moisture as it hardens and keeps the clay-cement mixture from cracking. Schmednecht says the final product, a firm gel that is slick to the touch, has a design life of 40 years, mainly due to the permanence of the cement.

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Officials with TEC and Calumet Trucking foresee enough new possibilities for the slurry wall technique that they have formed a new company, Slurry Systems Specialists, Inc., East Chicago, Ind.

■ Construction of the Harry S. Truman Dam, 1.5 mi. upstream from Warsaw, Mo., on the Osage River, is in its 13th year.

A Stage 1 contract was awarded in August 1965 for a small amount of clearing and grubbing and core trench excavation on the west bank of the river, and for some embankment fill and grouting.

Additional embankment and excavation was started in 1967 in Stage 2, and in November 1970, a major contract was awarded for Stage 3 construction of the remainder of the embankment fill, except for the river closure section which is now being done by S. J. Groves & Sons, Inc.

At the same time, the powerhouse substructure and a major portion of the spillway were started, which required some 297,000 cu. yds. of concrete.

Later, a fourth contract was let for construction of a dike in a "saddle" along US 65 at Sterrett Creek.

The 5000-ft.-long rolled earthfill dam, with a 964-ft.-long concrete spillway which includes four 40-ft.-wide tainter gates, will have required some 8 million

cu. yds. of embankment when it is completed.

Near the right abutment, below the face of the dam, a powerhouse structure will contain six hydraulic reversible pump turbines and generators to produce electrical power during peak periods of power demand.

A joint-venture of Guy F. Atkinson and Wismer & Becker, both of California, has the Stage 5 contract to install the generators and turbines.

Behind the dam, a flood control reservoir will cover more than 209,000 acres, with 3,999,300 acre-ft. of storage capacity and 958 mi. of shoreline.

Other construction activities surrounding the dam and reservoir project include highway relocation, 12 mi. of railroad relocation, 240 mi. of utility lines, relocation of 50 cemeteries and construction of Missouri's longest bridge, a 5128-ft.-long structure over the Osage near Warsaw.

When the project was modified to include electrical power potential in 1962, estimated cost was set at \$150 million. Now, according to Corps of Engineers officials, total cost exceeds \$440 million.

# Construction enters 13th year

# Truman Dam embankment closure marks end of \$440 million project

■ The sixth and final stage of construction at the Harry S. Truman

SLURRY WALL is installed on downstream closure dike to stop water seeping into core trench excavation.

Dam near Warsaw, Mo., is moving into high gear as the contractor prepares the way to begin closure of the main embankment.

S. J. Groves & Sons, Inc., Springfield, Ill., has already completed a channel change which redirects the Osage River from its original stream bed through the dam's spillway, placing a pair of rock dikes in the riverbed to halt flow there.

Groves has also placed a dewatering system and begun pumping down water trapped between the two dikes, installed slurry cut-off walls the length of the dikes and started excavating muck from the riverbottom.

"We have about 3.5 million cu. yds. of earth and rock excavation and embankment to place to complete the closure between the embankment which is in place and the rock bluff where the left abutment ties in," said Charles Myers, project manager for Groves.

That embankment will extend

1400 ft. in length and will be 1300 ft. wide at its base, decreasing to 35



**SLURRY SYSTEMS SUPERINTENDENT**Bob Budgin and operator Dick Harris check alignment of slurry wall.



**GENERAL SUPERINTENDENT** Gerald Brister and project manager Charles Myers check dewatering.

ft. on top as it is placed on 4:1, 10:1 and 3:1 slopes on front and back sides. This will include a variety of selected materials, placed in triangular-shaped zones.

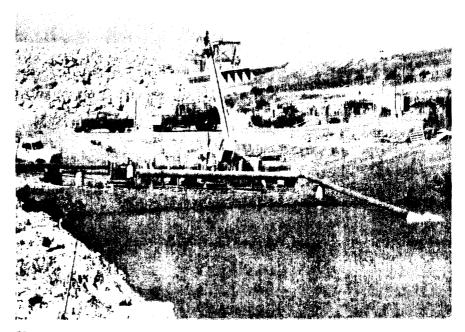
Groves moved onto the project in February of this year, using a Caterpillar earthmoving fleet to build up a primary haul road with 350,000 cu. yds. of materials, and to stockpile 300,000 yds. of impervious material.

"We had to get this material out of the bottom lands before they were flooded and place it in a stockpile above elevation 703 to have it available as we bring the dam embankment up," Myers noted.

The project manger added that all of the impervious materials needed have been excavated and stockpiled and remainder of the borrow materials lies between small hills behind the right abutment of the dam.

To make the channel change in mid-July, Groves first had to place 100,000 yds. of rock in the two dikes, backing those with another 100,000 yds. of river fill clay materials, then excavate 190,000 yds. of material from a plug in the new channel.

"First we had to go in and clean the loose rock from the bedrock surface in the new channel, using high pressure water and a vacuum truck," Myers said. "Then we had



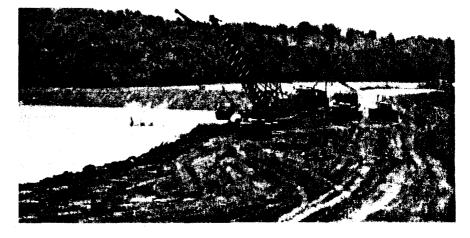
**DEWATERING** of the embankment site is speeded along by Groves employees setting up one of the Crisafulli pumps being used to pull ground water from the deep well system.

to take the dike out on an aroundthe-clock operation with two of our draglines. We started at the center

and worked out to each end to remove the dike, which was about continued



INJECTION RIG for slurry wall erection is seen from nearby Kaysinger Bluff at downstream closure dike (above). Below, Groves' Northwest dragline dumps a load of muck into a waiting Euclid bottom-dump while an American drops its bucket into water trapped between the closure dikes.



90% underwater."

Groves was required to equalize water pressure on both sides of the plug, so they elected to set up a 26-in. siphon over the dike, priming it with an 8-in. vacuum pump, and siphoned water into the new channel.

Closure was delayed a couple of weeks when 10 in. of rain in two weeks flooded the area and halted excavation. When the flood receded, Groves readied materials for final closure, the U.S. Corps of Engineers stopped flow through upstream dams, and the dike materials were pushed into place.

"For our dewatering situation between the two closure dikes we installed 14 deepwell pumps along the existing embankment, then ran slurry walls from the left abutment across the up- and downstream dikes and tied them into the embankment," Myers said.

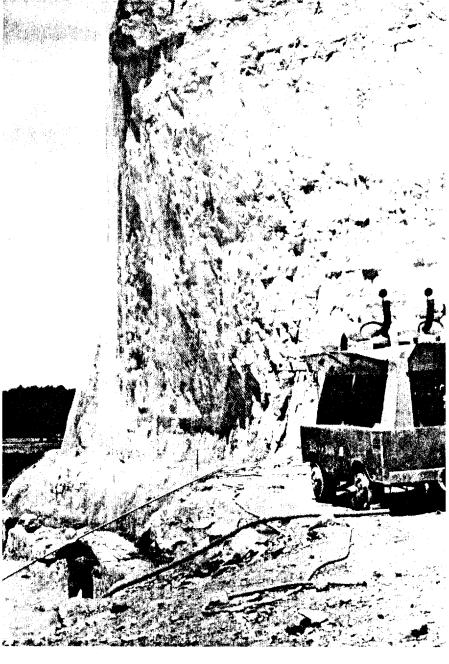
The slurry walls were installed by Slurry Systems Specialists, Gary, Ind., under a Groves subcontract. Bob Budgin was superintendent for Slurry Systems during vibratory placement of approximately 1900 lin. ft. of wall averaging 45-ft. depths.

Groves' dewatering system includes 12- and 16-in. Crisafulli pumps, a pair of 10-in. and an 8-in. vacuum pump to handle the initial pump-down of the water within the cutoff dikes.

"Then we will get a better picture of what the muck removal operation will look like," Myers said. "The bid item is for 60,000 yds. of muck removal, plus about 130,000 yds. of material in an existing protective dike which has to come out. After that is completed we can get down and open up the core trench continued

CORPS OF ENGINEERS visitor center (top photo) overlooks dam site and rock excavation for left abutment tie-in. At right, draped fence fabric net covers rock wall above drilling and shooting team as a precaution against falling rock.





and start building the closure embankment,"

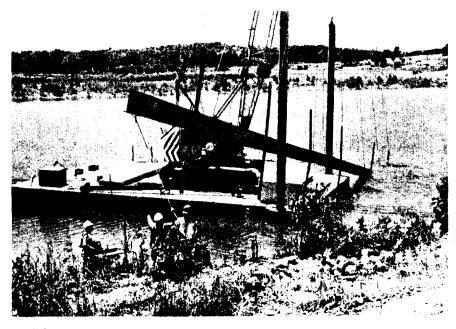
Before and during pump-down, the project manger had a pair of draglines, an American 7250 and a Northwest 95, excavating muck into Euclid bottom-dumps which then carried it to the upstream side of the closure dike.

"Under the muck there is about 10 ft. of river gravel, then bedrock," Myers continued. "We will clean out a 43-ft.-wide core trench to bedrock down the centerline, leaving the rest of the gravel as base for the embankment.

"We will clean all the muck off, go in and compact the gravel, dewater again then start the fill from there. A grout curtain will go all the way through the core trench starting at the end of the existing embankment and up the left abutment, through the rock cut and back to a roadway about 100 ft. behind the bluff."

While other preliminary work has been on-going, Groves has been drilling and shooting benches in the rock bluff. "We have to tie into the rock with the embankment, so we had to shoot out 1:1 benches to give us our tie-in points," Myers said.

To protect the men working be-



**TRANSDUCER BEAMS**, like the pair below, are to be placed by Groves on each side of the new river channel. Cables stretched below them will measure the flow of the current.

low the top of the bluff adjacent to the drilling and shooting area, a draped net of wire fence material was hung over the face of the rock to keep dislodged rocks from bounding into the work area.

Only about 8000 yds. of rock had to be shot from the bluff, Myers said. "There were a lot of holes to

be drilled but that was because of the pre-splitting we had to do." Gardner-Denver Air-Tracs and compressor units were used for that operation.

Continental Drilling Co., Seattle, Wash., will drill and grout the curtain wall, which may go as deep as 130 ft. into rock, according to Richard Griffith, resident engineer, U.S. Corps of Engineers, Kansas City District.

"Rock which underlies the dam is a good dolomitic limestone, with very few solution cavities," he said. "The curtain wall will be a fourrow wall as opposed to the singlewall curtain under the concreted portion of the dam."

While the grouting is being done, Groves will put its earthmoving crew back to work building up a cofferdam to elevation 708. This has to be completed prior to December 1 for protection from high water.

"Once the rest of the embankment reaches 708, the top of the cofferdam will come off and be utilized in the main dam fill," Myers said. "All of the material we have placed and will be placing in the river is permanent embankment."



GARDNER-DENVER AIR-TRAC DRILL bores into a rock where a 1:1 bench is being cut for the earthfill dam's left abutment tie-in. About 8000 yds. of rock were shot from the bluff.

continued

he emphasized.

Groves' Truman Dam earthmoving fleet includes 10 Cat 651 and three 627 scrapers, five Cat 773 50-ton end dumps and a 992 endloader, five Euclid bottom-dumps, the American 7250 dragline and a 5299 crane, and the Northwest 95 dragline.

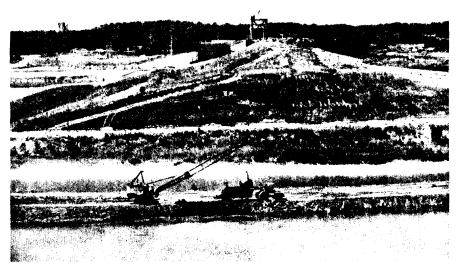
Speaking of the dragline operation, Myers said he anticipated being able to supplement the muck removal operation by using the endloader and end-dumps, working from a ledge of the bluff which goes under the muck.

"Once we get the muck removed, and if other conditions allow, we will run a double shift on embankment work," he said.

"Our scheduled completion date is in late 1979, but we are hoping to have it completed by May or June 1979. That depends on what the river does to us in the meantime."

One of the last items Groves will perform is completion of the con-

LOAD OF MUCK is placed on the upstream side of the closure dike by a Euc bottom-dump while a Cat dozer spreads material.



MUCK REMOVAL operation is in foreground of view from the bluff looking down the axis of the dam. Embankment behind the crane was placed under previous contracts.

crete sills under the dam's four tainter gates in the spillway section.

"We can't start that until July 8 of next year," Myers said. "We will have to set up an on-site batch plant to mix the 8000 yds. of concrete because the Corps requires it

for testing purposes."

Working with Myers on the \$13.1 million project are general superintendents Gerald Brister and Larry Burford. Bill Pew is office engineer and is responsible for quality control.



# ALL TYPES OF SLURRY TRENCHES & WATER BARRIERS



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fuel storage for aircraft, vehicles and heating fuel. The air station maintains 17 buildings on base with over 92,000 square feet and eight buildings at Camp Geiger with 156,000 square feet of covered storage. In addition to covered storage, the station has approximately 68,000 square yards of available open storage. As a part of its mission, the station provides the bulk of the storage space for the Marine air groups based at the air station. This includes space for aircraft parts and equipment, ready-issue material storage, air group development supplies, and open storage areas for heavy machinery and equipment, as shown in Tables 29 Most of the existing storage/supply areas are located on the south side of Curtis Road. The conditions of the existing structures are basically good except for some maintenance and repair work. other problem is the amount of space and the location. some facilities at Camp Geiger creates transportation and time loss problems for the air groups since they often have daily needs of supplies and equipment from their warehouses.

T29		CAMP GEIGER WAREHOUSE SPACE		
Cat Code	Description	Existing	Required	
44110 45110	Gen. W'house Space Open Storage Area	156,500 sq. ft. 61,000 sq. yd.		
T30		MARINE CORPS WAREHOUSE SE		
Cat Code	Description	Existing Sq. Ft.	Required	
44110 44130	General Warehouse Flammable Storage	86,600 1,900	116,800	
44135	General Storage Shed TOTAL	3,800 92,300	$\frac{10,900}{127,700}$	



Ordnance Storage/Handling: The air station has no long-term ordnance storage or handling ability. Ordnance is currently procured from storage at MCB magazine area, requiring extensive transportation and time on a daily basis. The only facility the air station has for arms is one ready service locker for small arms, ammunition and aircraft ejection seat cartridges. The air station already has under development a project for an ordnance storage/handling facility, with a total of 29,000 square feet. The facility is planned to be located in the southwest quadrant of the station and will provide a storage and assembly area for 2.75" rockets, high explosive bombs up to 1,000 pounds, napalm tanks, and components for pyrotechnics suchas flares, smoke grenades chemical and munitions, and small arms ammunitions.

Fuel Storage: Fuel used for aircraft operations, motor transport, motorized equipment, heating and the production of steam are stored in different parts of the base; however, the main storage tank farm is located on the corner of White Street and Campbell next to the Seaboard Coast Line railroad tracks. The tank farm is served by tank trucks and railroad tank cars. The condition of existing facilities in this complex is good, as the oldest facility in this complex was built in 1960. This storage yard provides motorized vehicle fuel. Storage for aircraft ready fuel, located at the main tank farm, consists of eight storage tanks varying in capacity from 20,000 to 100,000 gallons. Other aircraft fuel storage is located in aircraft parking areas and is used for direct aircraft fueling. The storage is in two underground tanks with a total capacity of 40,000 gallons.

Vehicle ready fuel storage, located at the tank farm, consists of one 10,000-gallon tank; the other vehicle storage area is located between the two runways in the southern part of the base. It consists of two tanks with a total capacity of 5,000 gallons and is used by heavy equipment and trucks.

Heat fuel storage is located at the main tank farm in one tank with a capacity of 10,000 gallons.

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	Zone 2		Zone 3		
On Base	2.1 sq mi		1.4 sq mi		
Water	1.5 sq mi		0.1 sq mi		
Off Base	2.0 sq mi		0.1 sq mi		

(Less than 0.2 square miles off government property)

These contours are controlled for the most part by H-53 operations. Specifically, the Zone 3 contour is controlled by H-53 takeoffs and landings, H-53 GCA approaches, OV-10 runups, and UH-1 and AH-1 taxi operations. These contour areas represent a relatively small threat of complaint generation. This is especially true when it is noted that less than two-tenths of a square mile of the Zone 2 contour area falls outside government-owned land.

#### 3 ECOLOGICAL INFLUENCES

#### (a) Land Formations

The West Base area is essentially a flat highland with occasional fingers of eroded land, channelized and drained by tributaries flowing into New River creating wet, low, marshy pockets of land. Average elevations range from ten to twenty-five feet.

#### (b) Ecological Constraints

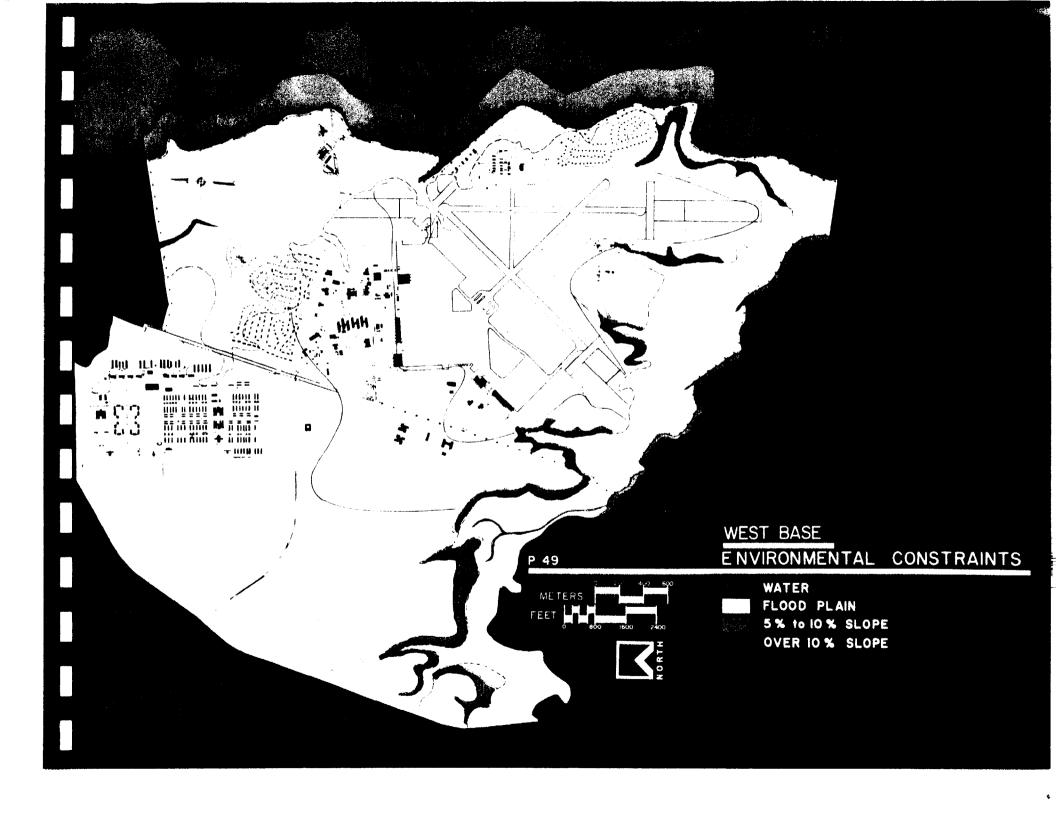
#### (1) Flood Plain

An important natural constraint which must be considered in planning the West Base area is the flood plain. The 100-year flood plain has been determined by the U.S. Army Corps of Engineers to be at the eight-foot

elevation level. In the West Base area the eight-foot elevation occurs near the shore of the New River and along the edges of major streams which drain into the river, as shown in Plate 49. The major areas affected by the flood plain are on the air station. Enlisted men's family housing is located approximately halfway into the 100-year flood plain and, as a result, any future construction in the area should be avoided. The officer family housing area, while not located directly in the flood plain, is bounded by it on the east side. The last area with major intrusion of the flood plain is the south part of the air station, bounded by Southwest Creek. Any major development in this area would be very limited. However, since a large portion of the southern part of the air station is restricted by aircraft flight zones, the flood plain is not expected to cause any major problem.

#### (2) Drainage

The relief in the West Base area is nearly level to level, except for short steep slopes adjacent to either swamps or shoreline. Among these slopes are some escarpments. The best drained soils occur in bands adjacent to these slopes and have gentle slopes extending away for a few hundred feet to more level areas where soil drainage decreases. center and west part of the area are somewhat poorly drained to very poorly drained and have nearly level to level slopes. Natural drainageways are poorly developed. Drainage-ways extending into the center and west part are deep near the outlets but become shallow a short distance from the outlets, until in the center and west part they are very shallow. Construction of buildings and runways in the West Base area has completely impeded the little natural drainage that existed in the more level elevation of the area. Soils in the built-up areas are either drained by a system of ditches or constructed drainage-ways, or they have no drainage, are flooded during rainstorms, and remain flooded for several days after each rainstorm.



#### (3) Soils

, .

Plate 50 illustrates substantial areas of soils, ranging from moderately poor to poor for building. However, an equivalent amount of land consists of good soils as well. As a single ecological constraint, soils are not a critical concern; but combined with other factors, such as drainage and slopes, soil types become a significant consideration.

#### (4) Vegetation

About three-fourths of the land area in West Base is developed and used for runways, service areas, barracks, family housing, and recreation. Runways and aircraft parking areas are surfaced. Land area adjacent to them is sunny, consisting of forest, vegetated waterways and lawns. Land area in barracks and family housing is about 30 percent sunny lawns and 45 percent shady lawns. Recreation land area is sunny. Outlying land areas are in woods, growing loblolly and pond pine, some white and post oaks, maple, gum, dogwood and undergrowth of gallberry, reeds, and bay bushes.

#### 4 MAN MADE INFLUENCES

#### (a) Existing Land Use

The utilization of lands within the West Base boundaries can be placed within eight functional categories. These are Operation, Training, Maintenance, Supply, Medical, Administration, Troop and Family Housing. Plate 51 illustrates the existing land use for the West Base Planning Zone.

#### (1) Marine Corps Air Station

The heaviest development occurs in the area bounded by Curtis Road to the north, White Street to the west, and the aircraft parking area to the south. The largest percentage of assigned personnel, both military and civilian, is employed in this area. The basic land use in this area is supply/industrial; the next largest is community support facilities, such as exchanges, commissary, and others. Other uses in this area are public works, administration and troop housing.

There are two family housing areas located on the base that serve air station personnel. The officer housing area is located in the southwest quadrant of the base and is bounded by the New River on the east and the aircraft operations area (runway) on the west. Enlisted family housing is located on the north side of Curtis Road, bordered on the west by the Seaboard Coast Line right-of-way and on the east by Agar Street and the approach zone for Runway 18-30. Bachelor enlisted housing for air station personnel is scattered between Camp Geiger and the air station. Troop housing on the air station is divided between the barracks built in 1954, located in the congested area on Bancroft Street, and the new troop housing area to the west of the Seaboard Coast Line tracks, where two barracks have been built and two more are under construction.

By far the largest single land use is operations. This land use includes runways, taxiways, aircraft parking areas and flight zones. Of this area, flight zones control the builk of the land and are located at each end of both runways. Since this is mainly a helicopter station, these zones have not created major problems concerning air zone safety violations. Also, only a very small portion of the zones fall outside station property. However, the operation area of the air station is an important factor in future land use development of the base. At the present time, the existing flight zones have restricted development on several parts of the base. The officer family area is bordered on one side by the flight zone and on the other three sides by natural constraints; as a result, any further expansion of family housing would have to occur on another part of the base. This same situation holds true for bachelor officer housing as well as enlisted family housing.

The supply and maintenance areas are located in the area immediately adjacent to the aircraft parking areas, their major use being aircraft

## **C** COURTHOUSE BAY

#### 1 LOCATION

Courthouse Bay is one of several satellite developments at the Camp Lejeune Complex which are isolated from Mainside, the center of urban concentration. Courthouse Bay is located to the south of Mainside on the eastern shore of the New River, approximately two miles from the Atlantic Ocean. The area is accessible via Marine's Road and North Carolina Route 172. The driving times and distances to the other developed areas of the Camp Lejeune Complex are shown in Table 12. The Courthouse Bay planning sector contains approximately 741 acres, of which 50% is presently developed.

	COURTHOUSE BAY DISTANCES DRIVING TIMES			
	Miles	Minutes		
Main Gate	13.2	21		
Mainside	9.8	13		
French Creek	9.0	12		
Mile Hammock Bay	4.3	5		
Onslow Beach	7.8	10		
West Base (via	25.0	30		
Sneads Ferry Rd.)				
Brewster Blvd.	12.8	21		
Jacksonville	27.0	32		



#### 2 MILITARY PLANNING DATA

#### (a) Command Description

Courthouse Bay is the home of the Engineers School and the 2nd Amphibious Tractor Battalion (AMTRAC). The Engineers School is a part of the Marine Corps Base Combat Support School and includes instruction concerning utilities, heavy equipment, combat engineering and other forms of specialized instruction. The Courthouse Bay area is an adequate site for the school, although it does not provide any unique characteristics that could not be found at a number of other locations throughout the complex. The school requires a relatively remote site because of the environmentally destructive nature of the heavy equipment training. Also, the environmental conditions should provide sufficient drainage and topography so that the training activities will not be limited. The Engineers School was located at Courthouse Bay for two major reasons: (1) the school was inappropriate for Montford Point which is the location of the rest of the Marine Corps Base Schools, and (2) facilities were available at Courthouse Bay which would adequately serve the school's needs.

The AMTRAC Battalion of the Force Troops Command has a unique requirement to conduct training exercises both on land and in the water. To meet this requirement, the AMTRAC Battalion utilizes Courthouse Bay, Onslow Beach, the Atlantic Ocean, and the series of tracked vehicle trails.

The Courthouse Bay area was chosen for the AMTRAC Battalion because it was a protected natural harbor with direct water access to the ocean, as well as to other parts of the complex via the New River. Until recent years, the AMTRAC's operated routinely in both the bay and the New River itself. These waters were used for both initial driver training and large combat exercises which moved troops from the Courthouse Bay area, up and down the river, to various landing points on both the east and west banks. The existing transportation routes for the Camp Lejeune Complex, Plate 12, show numerous tracked vehicle trails which lead into

the New River on both sides of the complex. At this time, the river was considered to be as much a part of the Marine Corps training areas as the land, and was used in conjunction with it. However, at the time of original purchase, the Marine Corps did not acquire the rights to the river, which is still public property. The river serves as a way of access to the city of Jacksonville and is used by commercial fishermen and barges. (Actually, the New River is not a true "river", but an estuary which does not flow from any inland points, and ends at Jacksonville.) Because of increases in fishing operations and private boating, and more importantly, increased environmental restrictions on the military, the Marine Corps has been denied the use of the New River for routine train-For this reason, the Marines have increased training ing operations. maneuvers in the Atlantic Ocean, which is still allowed. These events have reduced the desirability of Courthouse Bay as the site for AMTRAC headquarters, because of the distance to the Atlantic Ocean. A discussion of alternative sites will be addressed in Section IV-C-7, Proposed Development.

#### (b) Base Loading

At present, the estimated base loading for the two commands is as shown in Table 13.

T13	EXISTING BASE LOADING			
	Officers	Enlisted	Civilians	
Engineering School (permanent) Engineering School (students)	18 12	24 484	1	
AMTRAC Battalion	46	1103	4	
TOTAL	76	1611	5	

The overall development of the Camp Lejeune Complex is discussed in Section III. The plan includes proposals for the relocation of several major commands or fragments of commands. Among these are the proposal to relocate the Motor Transport School from Montford Point to Courthouse Bay. This move will consolidate all of the portions of the Combat Support School that deal with heavy vehicle and equipment training at Courthouse Bay. The remaining parts of the school, which are more classroom oriented, will be located at either Montford Point or Camp Geiger.

A second proposal involves the relocation of the AMTRAC Battalion to Mile Hammock Bay, as an alternative to Courthouse Bay. Because of this, two alternative proposed base loadings are shown in Table 14.

T14			OUSE BA ED BASE	Y LOADING
A.	Without AMTRAC Battalion	Officers	Enlisted	Civilians
	Engineers School (permanent) Engineers School (students) Motor Transport (permanent) Motor Transport (students)	18 12 18 27	204 484 160* 431	
	TOTAL	75	1279	
В.	With AMTRAC Battalion	Officers	Enlisted	Civilians
	Total from above AMTRAC Battalion	75 46	1279 1103	
	TOTAL	121	2382	
		;	*estimate	

#### 3 ECOLOGICAL INFLUENCES

#### (a) Land Formations

Elevations in the Courthouse Bay area range from 0-40 feet above sea level, with most of the development occurring between 10-25 feet above sea level. The topography is low and relatively flat, lacking in any real outstanding land formations. Of particular interest is the configuration of the land along the water, consisting of several peninsular areas and promontories forming the bay, along with several small tributary inlets. Although much of this land is already developed, certain areas would be appropriate for pleasant recreation areas, and afford fine vistas for siting of certain facilities.

#### (b) Ecological Constraints

#### (1) Flood Plain

The combination of the 100-year flood plain at the ten-foot elevation, and the prevailing flat topography, produce a substantial area of land which is unavailable for future construction, as shown in Plate 38. It is interesting to note that almost all existing buildings have also been sited at elevations above the flood plain level. Only a few buildings, which have related amphibious uses, fall in the flood plain zone. Two large areas of land, lying below the ten-foot level, extend into the developed area from the bay to the north and the river to the south. These areas create a problem, when siting new facilities for Courthouse Bay, because they form a barrier between the present housing and working areas.

#### (2) Topography

Sloping lands which are classified as marginal for construction, ranging from 5% to 10%, largely lie adjacent to low wetlands, flood plain zones, and tributary drainage lines. In the presently developed areas, there are really few steep slopes and only in the areas to the north of Main



Service Road is building construction substantially affected or prohibited.

#### (3) Soils

Soils in the area range from moderate to very poor with the major portion of land being moderately poor in the developed areas. These areas consist of excessively drained sandy soils. Other soils include wetland, muck, and marsh-like soils along creek lines, tributaries and within the flood plain zone, as shown in Plate 39.

#### (4) Drainage

Drainage occurs naturally in irregular patterns with all water draining into the low, wetland areas, the flood plain zone and ultimately the bay and the river itself. The developed areas are well drained; however, the adjacent lands which lie below the ten-foot line are marshy and would be unsuitable for construction.

#### (5) Environmental Amenities

As already evidenced, Courthouse Bay contains several amenities, including interesting views, nearness to water, unusual land configurations and promontory overlooks. The siting of the 1942 facilities took advantage of these natural features, primarily because of lack of air conditioning; however, later construction during the 1950's and 1960's sited buildings without respect to any natural orientation.

#### 4 MAN MADE INFLUENCES

#### (a) Existing Land Use

The historical development of Courthouse Bay dates back to before the original construction of the Marine Corps Base, when the area around the bay was used for a Coast Guard station. The present development, as

## B FRENCH CREEK

#### 1 LOCATION

The French Creek area, relocation site of the Fleet Marine Force Command, is located southeast of Mainside and is accessible via the Main Service Road. It is bounded on the north by Cogdels Creek and the Mainside area, on the south by French Creek and Cowhead Creek, on the west by the New River, and on the east by the Main Service Road and a large expanse of undeveloped land. French Creek is approximately 1.5 miles from the traffic circle at Holcomb Boulevard and approximately 6.5 miles to the main gate, requiring ten to fifteen minutes' travel time by car, as shown in Table 8.

	FRENCH CR		
T8	DISTANCES	DRIVING	TIMES
	Miles	N/II.	nutes
	WITES	1V1 I	

	Miles	Minutes
Mainside	1.6	4
C. Bay	9.0	12
M. H. Bay	10.0	13
Brewster Blvd.	7.3	15
West Base	16.4	33
Montford Point	12.6	25
Jacksonville	12.2	24
Main Gate	7.3	15
Onglow Reach	7 5	10

IV-59

#### 2 MILITARY PLANNING DATA

The mission of the Fleet Marine Force, which occupies French Creek, is to command, administer and train assigned units to provide combat service and technical support. This constitutes a major source of heavy combat support and specialized technical support assignable to a mobilized unit. The complete mission and history of the Force Troops Command is discussed in Section III-B. The baseloading for the Force Troops area as it presently exists is shown in Table 9.

<b>T</b> 9	FRENCH CREEK EXISTING BASE LOADING
Officers	0
Enlisted Men	1,500*
	*existing barracks capacity

In comparison, the base loading for long-range planning, shown in Table 10, shows a considerable increase in the number of men to be billeted there.

T10	FRENCH CREEK PROPOSED BASE LOADING
Officers	460
Enlisted Men	7,121

This increase in the number of men will be phased into the French Creek area in stages as development progresses in the area.

#### 3 ECOLOGICAL INFLUENCES

#### (a) Land Formations

The topography of the French Creek area is essentially an extension of Mainside: a relatively flat highland with occasional fingers of eroded

land, channelized and drained by tributaries of Cowhead, Cogdels and French Creeks, creating rather wet, low, marshy pockets of land. Average el evations range from 20 to 25 feet.

#### (b) Flood Plain

A significant natural constraint at French Creek is the one hundred year flood plain, which has been determined by the U.S. Army Corps of Engineers to be at the eight- to ten-foot elevation level. This restricts the amount of land permitted for future building development as indicated in Plate 32. Common within the flood plain region are steep slopes of 10% or greater, which usually lie adjacent to the eight- to ten-foot line, ultimately forming the low, damp pockets of land. There are exceptions to this with a few sloped areas of 10% or more occurring inland.

#### (c) Soils

Plate 33 illustrates substantial areas of soils ranging from moderately poor to poor for building; however, an equivalent amount of land consists of good soils as well. As a single ecological constraint, soils are not a critical concern, but combined with other factors such as drainage and slopes, soil types become a significant consideration.

#### (d) Drainage

Drainage patterns are dentritic-like, feeding into finger-like channels which are tributaries of the New River. Drainage directly affects the topography and soils of the area with respect to erodibility and low wetland formations.

#### 4 MAN MADE INFLUENCES

#### (a) Existing Land Use

At the present time, the few existing support facilities and bachelor enlisted quarters at French Creek are sited between an industrial park to

IV-61

the north, and the outer limit of the explosive quantity distance arcs from the magazine area to the south, as shown in Plate 34. The French Creek area development is presently in a stage of transition with the 2nd increment of construction in its final stages of completion, and the 3rd increment of facilities to be constructed in the near future. The existing development, originally included in the 1970 master plan, consists of buildings poorly sited at odd angles, a lack of facilities consideration as they relate to one another and an overly complicated vehicular network.

These problems could possibly be resolved or improved upon by the integration of these existing facilities with any new development planned for the French Creek area, by interrelating new and existing facilities and their uses. As can be seen in the 2nd increment of development, there are considerable changes in the planning, design, and siting of facilities, as initiated by the architectural and engineering firm under contract.

The first increment of construction included six bachelor enlisted quarters, flanking either side of a complex that includes supply administration and dining hall facilities. Immediately to the west of three of the bachelor enlisted quarters are the beginnings of another complex of support facilities which presently includes a dispensary and an academic instruction building. Sited just below these support facilities is the second increment of construction which includes six two-story bachelor enlisted quarters, each designed with enclosed interior courtyards, a dining hall, and an administration building sited on axes at opposite ends. In addition, a series of warehouses is planned and sited across the road from the dining hall to serve this second increment for supply and maintenance.

Facility site planning for the second increment has considered various ecological constraints in the area; flood plains, slopes, soil types and drainage patterns, which are significant factors in all development and planning on the base.

Section III-G-1, "Consolidate Major Commands in Individual Geographical Areas", detailed the recommended relocation of the major commands at Camp Lejeune. This plan includes the removal of all Force Troops Command personnel from Mainside and their consolidation at the French Creek Complex, the construction of a new naval hospital at Brewster Boulevard which will replace the existing hospital at Hadnot Peninsula, and the return of all 2nd Marine Division (Rein), FMF personnel from Camp Geiger to the regimental areas of Mainside. These changes will affect the base loading of Mainside and have been included in the proposed base loading shown in Table 7 below.

Т7		MAINSIDE PROPOSED BASE LOADING		
	Officers	Enlisted	Civilian	
Marine Corps Base 2nd Marine Division (Rein), FMF	209	1,309	3,910	
(less Reconnaissance Battalion) Naval Regional Medical Center	156	15,015 345	280	
Naval Regional Dental Center Transients	$\begin{array}{c} 22 \\ 22 \end{array}$	40 300	***************************************	
TOTALS	1,340	17,009	4,190	

#### 3 ECOLOGICAL INFLUENCES

#### (a) Land Formations

Mainside is located on the edge of the flat highlands which encompass the central portions of Camp Lejeune. A detailed description of this land formation is provided in Section II-C-1. Where the highland borders the New River, fingers of eroded land, containing small streams, impinge into the higher ground. Elevations range from 0 to 30 feet with the greater part of the land lying between 25 and 30 feet.

#### (b) Ecological Constraints

A major step in the process of preparing a proposed development for Mainside is the consideration of existing ecological constraints. By designating particular areas where natural features limit potential man made development, the directions of future growth become clear. The natural features which can constrain a site vary depending on locale. In Mainside, these are the factors:

- (1) 25- and 100-year flood plains
- (2) Steeply sloping topography
- (3) Soil types
- (4) Watersheds and areas of poor drainage
- (5) Natural buffer zones

#### (1) Flood Plain

By direction of the General Accounting Office, all facilities constructed for government and Department of Defense use must be either sited outside the 100-year flood plain or built using a type of flood-protective construction. The Corps of Engineers, Wilmington District, has determined the 100-year frequency flood elevation for the New River at Jacksonville to be 7.0 feet above mean sea level. This elevation remains constant downstream to the Mainside area and is shown in Plate 22. Proceeding further downstream, the action of tidal flooding becomes more predominant, with the 100-year tidal elevation for the open coast being 11.0 feet above mean sea level.

#### (2) Topography

In general, the construction suitability of a location decreases as the slope of the land increases. At moderate percentages of slope, construction costs, amount of building material required, and construction time increase gradually. At slopes greater than 10-15%, the practicality and even feasibility of construction becomes questionable. For the Mainside

area, these potential problems are minor. The steeply sloped areas, shown in Plate 22, are limited to the borders of the small streambeds discussed earlier, and are usually a companion to the 100-year flood plain.

#### (3) Drainage

Mainside is geographically defined by the New River to the west and Bearhead Creek and Cogdels Creek lying on the north and south. These streams and smaller creeks are the result of the drainage patterns shown on Plate 22. The original construction modified the natural drainage patterns by greatly increasing the amount of run-off water from the large paved areas in the industrial area and by removing almost all of the existing woodlands. As a result, the amount of water carried by these streams has increased and, in areas where drainage is poor, has caused marshes to form along the stream banks. Examples of these areas are along Cogdels Creek to the east of the 2nd Division Industrial Area, and at the intersection of Beaver Dam Creek and Wallace Creek.

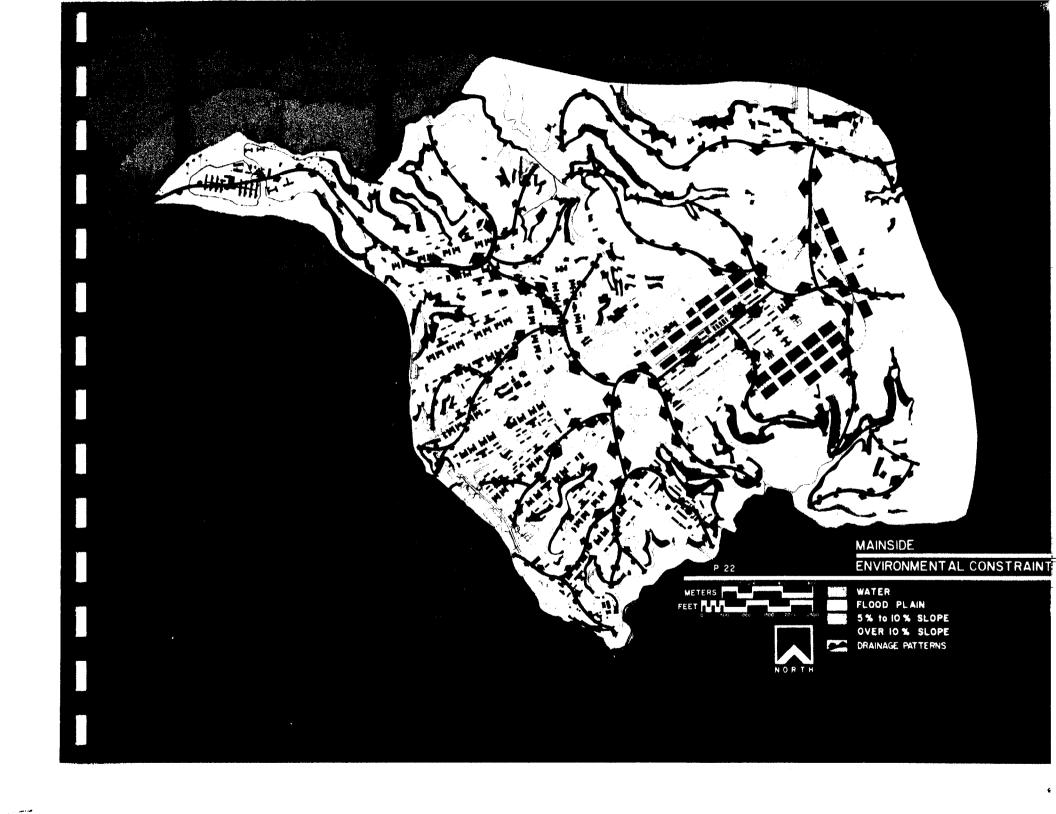
#### (4) Soils

The soils analysis for the Mainside area has been derived from the "Soil Survey and Woodland Suitability Guide for the Marine Corps Base Camp Lejeune", dated October 1964. As with the preceding natural constraints, the emphasis of the soils analysis was to determine which areas and soil types would tend to hinder or limit man made development. The soil survey divides the soils at Camp Lejeune into 16 basic categories which differ in depth of surface layers, texture and consistency, and drainage properties. As an integral part of the base conservation program, the soil survey is oriented toward soils and woodlands maintenance and does not contain direct information concerning construction suitability. However, by interpreting the detailed soil descriptions, it became apparent that a direct relationship existed between the 16 categories and the relative construction suitability.

Investigation revealed that, for construction purposes, categories 4, 5 and 6 and 14, 15 and 16 could be combined into two groups resulting in the final 12 categories shown in Plate 23. Approximately 90% of the soils in Mainside are of the GOOD to MODERATE classification. Several small pockets of MODERATE--POOR and POOR soils exist in the 1st, 4th, and 5th regimental areas as well as Hadnot Peninsula. However, a number of the original 1942 barracks were constructed in these areas without apparent difficulty. The original construction costs for these barracks are essentially the same as the others built in the same year. Nevertheless, further, more detailed soil studies of these areas should be conducted before new construction takes place. The dark green areas in Plate 23 represent the VERY POOR soil categories, which in almost all cases coincide with the creek beds and steeply sloped areas.

#### (5) Buffers and Recreation

All of the previously discussed environmental constraints have been considered to have a negative influence on potential man made development. All of them provided engineering or economic reasons to inhibit the siting of a facility in their locations. Another constraint, of a positive nature. exists which also inhibits the development of large areas of Mainside. These areas have been designated BUFFER ZONES and PASSIVE RECRE-ATION areas. Their existence is a result of a combination of the various natural features and the man made development of Mainside. When the original development of Mainside was conceived, the stream beds, smaller creeks, marshes and steeply sloped areas were left in their natural states to form the buffer zones between adjacent regimental areas. These zones combine with the more rigid street patterns to define each regimental area. A second type of positive constraint has been indicated on Plate 24 as PASSIVE RECREATION and is composed of areas which have been naturally developed and maintained to form park lands. These areas include a 300-foot-wide open park land on the south side of Holcomb Boulevard, separating the industrial area from the boulevard, a 150-foot park land on either side of the rest of Holcomb Boulevard, and the land along the shores of the New River. The importance of these areas to the





METERS FEET

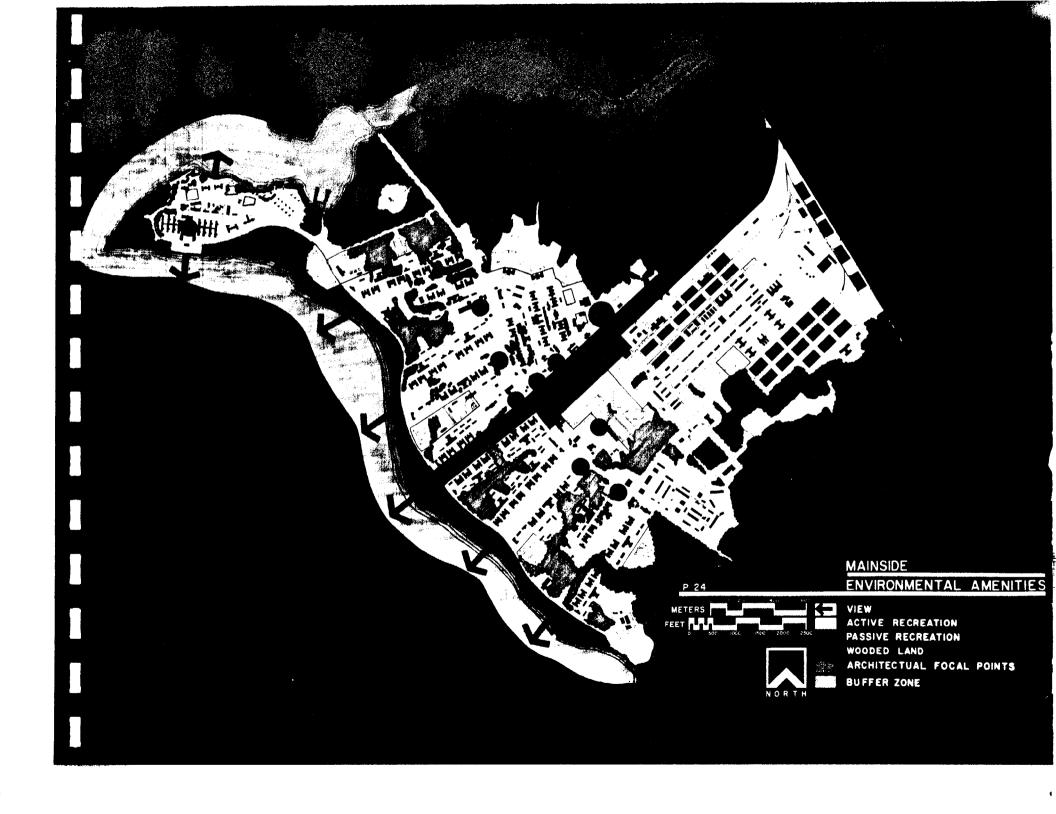


MODERATE

7 MODERATE POUR
8 MODERATE POUR

MODERATE POOR

F. History



#### **EXECUTIVE SUMMARY**

The activities included in this master plan are the Marine Corps Base, Camp Lejeune, the Marine Corps Air Station (H), New River, and the Naval Regional Medical Center. For planning purposes, these are referrered to as the Camp Lejeune Complex. The Marine Corps Base is the primary east coast training site for Marine Corps forces and is the home of the Second Marine Division and the Force Troops Command. The New River Air Station conducts independent training activities for helicopter aircraft as well as providing support for combined activities with the Marine Corps Base. The Medical Center is one of the largest hospital facilities on the east coast and is required to provide services to over 110,000 active duty and retired personnel and their dependents.

Presently the Camp Lejeune Complex is faced with the following areas of concern:

- 1. Scatteration of organizational units with respect to geographical areas.
- 2. Needed replacement of substandard barracks facilities throughout the Marine Corps Base.
- 3. Obsolete hospital facilities for the Naval Regional Medical Center.
- 4. Substandard and inadequate personnel support, shops and warehouse and training facilities throughout the complex.
- 5. Potential community encroachment along the complex perimeter.
- 6. Inefficient transportation patterns.
- 7. Potential changes and additions to existing Marine Corps weapons systems and organizations.

The following is a summary of the most important recommendations formulated in the master plan to resolve these problem areas:

- 1. Consolidate the various individual Marine Corps commands located in separate geographical areas in coordination with the barracks replacement program. Included in this proposal are (a) the return of the 2nd Marine Division to the five regimental areas of Mainside; (b) the relocation of the AMTRAC Battalion to Mile Hammock Bay; (c) the consolidation of heavy equipment training at Courthouse Bay, including the Motor Transport School and the Engineers School; (d) the completion of the Force Troops consolidation at French Creek; and (e) the utilization of the Camp Geiger complex for either the Marine Corps reserve units or the return of the Infantry Training Regiment from Parris Island, South Carolina.
- 2. Coordinate the barracks replacement program for Mainside and the other developed areas of Camp Lejeune in such a way as to phase in new construction with continued use of the existing housing areas. Adopt a comprehensive site plan for Mainside which will result in an efficient and attractive living environment for over 15,000 personnel.
- 3. Construct the replacement hospital for the Naval Regional Medical Center at the Brewster Boulevard site and use the adequate portions of the Hadnot Peninsulafacility for Marine Corps Base support and administrative functions.
- 4. Develop replacement programs for community support facilities, shops and warehouses, and training buildings similar to the barracks replacement program. Priority for implementation should be given to newly developed areas such as French Creek and Mile Hammock Bay.
- 5. Prevent community encroachment along complex perimeter by increasing "visibility" in undeveloped training and maneuver areas, by utilizing adjacent land where possible, and by excessing unneeded land.

- 6. Decrease the requirements for transportation between West Base and Mainside by consolidation of individual commands as discussed above and by developing a regional support complex at Curtis Road triangle.
- 7. Develop the Mile Hammock Bay site for the AMTRAC Battalion with the capability for expansion to include future amphibious weapons systems such as large hovercraft.
- 8. Investigate the possibility of relocating the training ranges which cross the Intracoastal Waterway to remote offshore locations.
- 9. Coordinate the siting of operational training facilities at the New River Air Station with existing facilities to develop a more logical land use plan for the operational areas.
- 10. Relocate all personnel support and troop housing facilities from the operations area at the New River Air Station and replace them on the west side of the Seaboard Coast Line Railroad.
- 11. Expand New River operational capability by relocating headquarters to Bancroft Street and developing an air operations complex on the east side of the airfield, including a transient aircraft parking area, control tower and operations building.
- 12. Expand the ordnance storage area at the New River Air Station.

The preceding recommendations are considered to be the minimum actions required to allow the complex to continue to accomplish its mission. Each of these recommendations is delineated in greater detail, along with the supporting rationale, in the following sections.

# INTRODUCTION

## A OBJECTIVE



The preparation of this master plan for the Camp Lejeune Complex was first requested by Marine Corps Headquarters on 6 November 1972. The plan was then envisioned to be an updated version of an existing master plan for the Marine Corps Base, Camp Lejeune, dated March 1970. The request was brought about by a number of factors which caused the existing plan to become significantly obsolete. A primary factor was a change in philosophy concerning construction of bachelor enlisted quarters, a major planning factor at Camp Lejeune. Further discussions among Marine Corps Headquarters personnel expanded the scope of the plan to include all of the areas and tenants at Marine Corps Base as well as the Marine Corps Air Station (Helicopter), New River. Included among the tenant commands are the Naval Regional Medical Center (NRMC), Camp Lejeune.

No previous master plan for New River had been accomplished. Because of the many common features and interactions of the two bases it was appropriate to include them in a combined master plan. NRMC, an integral



part of Camp Lejeune operations, was in the preliminary stages of planning for a new facility and was also included as a factor in the new master plan. Other areas of the 1970 plan which had become obsolete concerned the future development of the Camp Geiger, Montford Point, and Courthouse Bay areas. Because of the expansion of the scope to include all of the independent commands in the region, the plan has been entitled the Camp Lejeune Complex Master Plan and the area is referred to as such throughout the plan. The increased scope, along with changes in federal and DOD planning policies and changes in NAVFACENGCOM policy concerning master plan format, dictated that the plan be prepared as a major revision requiring essentially a completely new planning effort.

The task of preparing the plan was assigned to the Naval Facilities Engineering Command and headquarters personnel, with the assistance of Atlantic Division, NAVFACENGCOM. The plan was initiated in August 1973.

#### D. COMPLEX DESCRIPTION

The Camp Lejeune Complex is composed of the Marine Corps Base, Camp Lejeune, the Marine Corps Air Station, New River, and the Naval Regional Medical Center. These three host activities have a number of tenant commands including the 2nd Marine Division, the Force Troops, Fleet Marine Force, and the Marine Air Groups 26 and 29. The Marine Corps Base. 'The World's Most Complete Amphibious Training Base", is a secondechelon command directly under the command of the Commandant of the Marine Corps. The New River Air Station is one of three activities which form the Marine Corps Air Bases Eastern Area, with headquarters at Cherry Point. The Naval Regional Medical Center is an independent command under the Bureau of Medicine and Surgery. Its organization is shown in Figure 2.

The complex, shown in Figure 3, is located on the coastal plain of North Carolina, 350 miles south of Washington, D.C., and 220 miles north of Charleston, South Carolina. Consisting of approximately 180 square miles of territory, the complex encompasses the New River estuary and has over 11 miles of shoreline along the Atlantic Ocean. United States Route 17 and State Route 24 form the western and northeastern boundaries of the complex. The city of Jackson-ville is located on the north boundary,

adjacent to the New River Air Station, and is the major location of off-base housing and community support. The surrounding countryside is rural in nature with large fresh water swamps or pocosins limiting man made development.

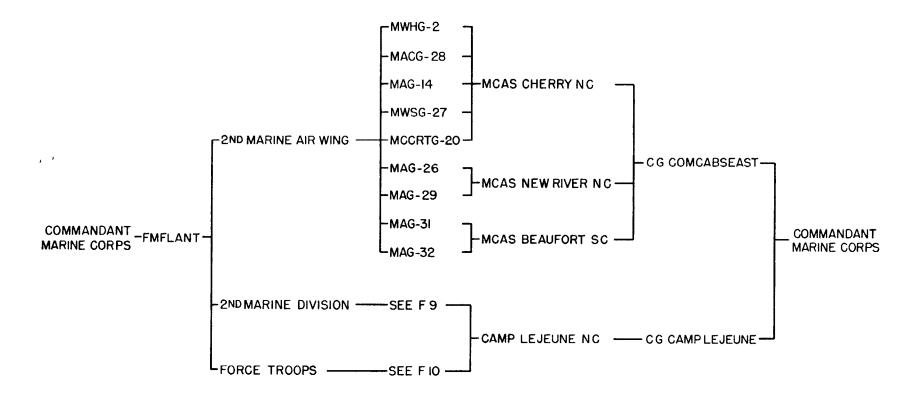
Over 46,000 military personnel are assigned to the various commands within the complex. An additional 47,000 dependents of active duty personnel receive support, of whom 12,000 live on the installation. Including the retired personnel in the region, over 110,000 people either work at, or are eligible for support from, the complex.

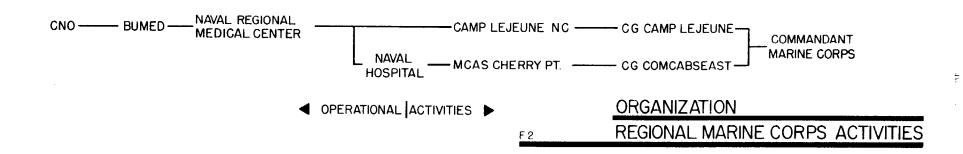
The basic mission of the activities within the complex is to provide and maintain a highly trained force-in-readiness to execute amphibious assault operations, including all of the supporting units that may be required.

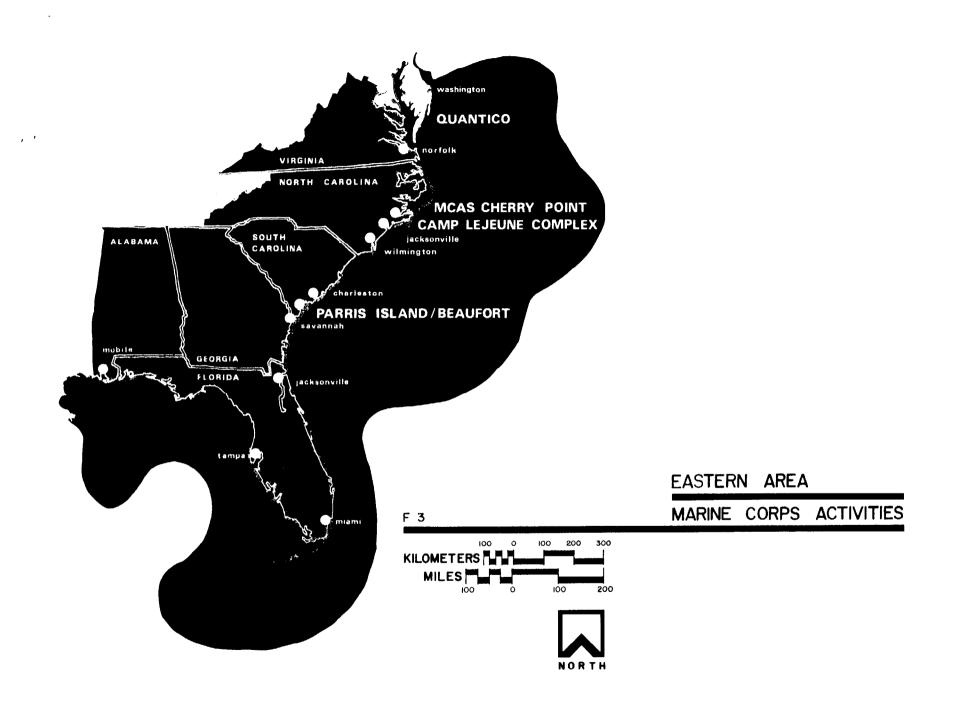
Included within this basic mission is the operation of a number of specialized schools for all forms of combat support.

The complex has grown considerably since its original construction in 1942. The periodic additions to the mission of the Marine Corps have brought about several growth periods when groups of new facilities were constructed. Nevertheless, large portions of the urban areas are essentially the same as they were in the early 1940's. Virtually all of the facilities constructed in the 1940's are still being used today, with most needing replacement. Unfortunately, it will require many more years to replace these facilities, even at optimistic construction rates. Another problem, related to facilities, is the redistribution of commands among the various developed areas. Over the years, the lack of new facilities has caused newly formed units to be distributed haphazardly among existing units. This unavoidable practice has brought about the scatteration of commands which exists today. With the exception of the main gate area, the road network has maintained its 1942 configuration.

Presently, the organizational commands within the Camp Lejeune Complex are adequately accomplishing their assigned missions. However, the







problems which exist today produce inefficiencies in training operations, inconvenient and awkward daily routines, and a substandard living environment for many Marine Corps personnel. In the future these problems, along with new constraints, could have an adverse impact on the mission of the Marine Corps at Camp Lejeune, unless proper preventive planning and implementation are begun.

## D MAN MADE INFLUENCES

## 1 EXISTING LAND USE



The major land use pattern for the regional study area is shown in Plate 3. The existing uses of the land can be divided into five broad categories, representing the most significant planning characteristics of each area. Several of the land uses are reflective of the natural land formations discussed previously in Ecological and Physical Influences. For example, the first land use des-"Poor Development Potential", represents large areas which include marshlands, sloughs, hummocks and broken land. The marshland, or pocosins, containing soft pines, red cedars and cypress, are a source of lumber but have no potential for physical development. Secondly, the three large publicly owned parcels of land account for the largest single land use in the regional study area. These are the Croatan National Forest, the Hofmann Forest which is owned by North Carolina State University, and Camp Davis Forest. Much of the land within these areas is also marshland and forest. The commercial and residential areas, consisting of low density development, are also shown in Plate 3. The remaining land in the study area is predominantly rural farm land with scattered housing near the major roads.

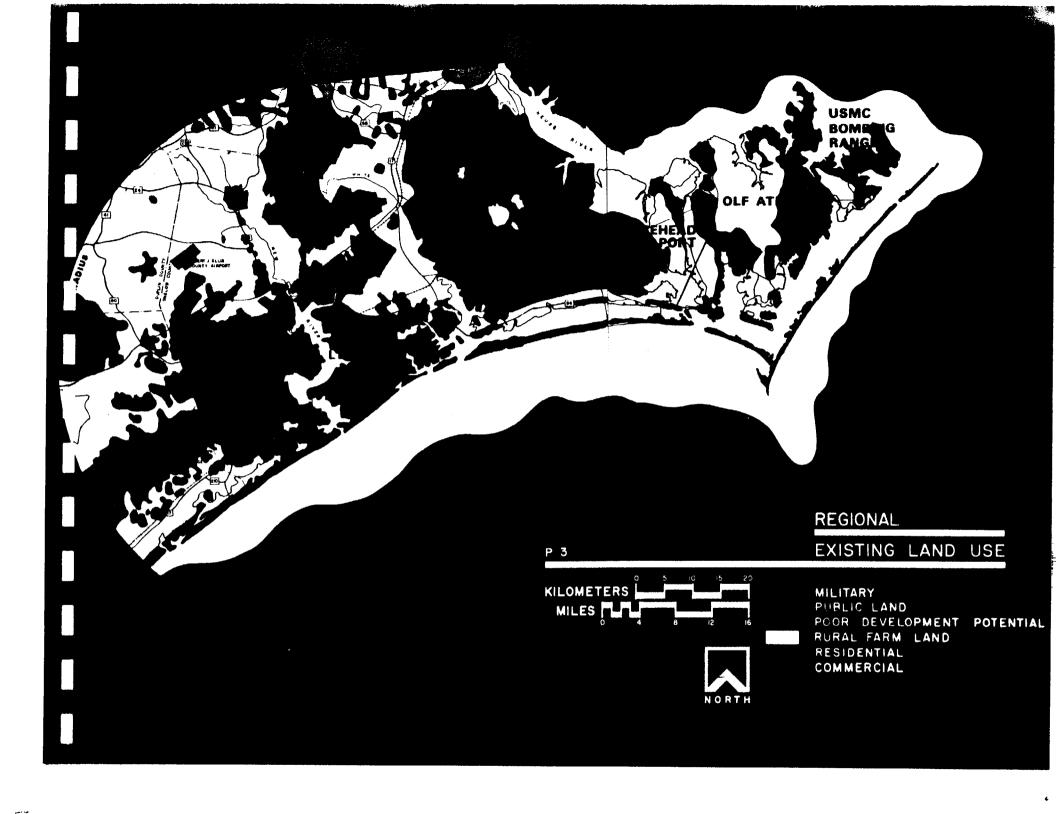
The large amount of public-held land, together with the many unusable pocosins and sloughs, has seriously restricted the area available for urban development. Two major corridors of developable land exist in the study area. These extend south from New Bern to Swansboro, along Routes 17 and 58, and from Swansboro northwest to Jacksonville and Richlands along Routes 24 and 258. Because the regional study area is adjacent to the Atlantic Ocean, the barrier banks and the lands around the estuaries have been developed as tourist and resort residential areas. Some of these residential areas are adjacent to the MCB Camp Lejeune. The commercial areas are of two basic types. The cities of Jacksonville and New Bern have older urban center shopping districts which are in the original sections of the towns. The newer commercial enterprises are of the linear strip development type along Routes 17 and 24.

### 2 DISTRIBUTIONS SYSTEMS

## (a) Surface Transportation Network

The quality of the transportation systems within the regional study area is, in many ways, a reflection of the level of land use development. Throughout the study area generally, the requirement for transportation is low due to the predominantly rural nature of the area. In addition, the study area is outside the major north-south routes of travel and therefore does not contain any of the major interstate road systems. The areas around the Camp Lejeune Complex and the city of Jacksonville are exceptions to the low density of the area. As a result, most of the traffic and, therefore, better roads are in this area.

The two major roads in the regional study area are State Route N. C. 24 and U. S. 17 as shown in Plate 4. East-west N. C. Highway 24 runs parallel to the northeastern boundary of the Camp Lejeune Complex and is the major route to MCAS Cherry Point and Morehead City. The road has only two lanes with the exception of the portion along the station, which has been widened to four and six lanes. North-south U. S. Highway 17 passes along the western station boundary and extends to New Bern to the



USMC OLF OAK GROVE BOMEREG HERRY POINT MOR A DEMT / ELIFS COUNTY ACMPORT ALF BEGUE OLF (CAMP DAVIS REGIONAL SURFACE TRANSPORTATION KILOMETERS PRIMARY ROADS MILES SECONDARY ROADS LOCAL ROADS RAILROADS WATER ROUTES

north and Wilmington to the south. The road is two lanes wide with the exception of a short four-lane section near the MCAS New River. Traffic, on these roads is mainly attributable to Camp Lejeune Complex personnel and is heaviest near Jacksonville and the base.

Major highway construction projects in the region include an overpass at the intersection of Camp Lejeune's main gate and Route 24 to relieve rush-hour traffic problems. The project was completed in late 1974. A long range highway project that would provide a bypass route for N.C. 24 around the city of Jacksonville has been proposed by state traffic planners. Diverting some of the traffic generated by the base to the bypass would help to relieve congestion in Jacksonville. The project has not been funded at this date, nor is it expected in the near future. The state has also prepared a five-year plan for the development of N.C. 24 to a four-lane divided highwayfrom Fayetteville to Morehead City. The section of N.C. 24 from Swansboro to Morehead City would be thelast phase of the project. The proposal has been postponed and is now part of the long range planning.

The state highway system in the region appears adequate for the volume of traffic in the rural areas but does not provide efficient long range automotive transportation. In particular, Routes 17 and 24 are two-lane roads with frequent small towns along their routes. The average speed on these roads is 40-50 miles per hour. Traffic counts for the roads adjacent to the Marine Corps Complex are provided in Section III-D-2.

Bus transportation is the major public mass transit system in the Onslow County area and trucks are the principal freight movers.

The regional study area is served by the Seaboard Coast Line Railroad which extends through much of the east coast. Rail service is provided from Wilmington to New Bern, via Jacksonville. A spur comes off the main line, enters the Marine Corps Base east of the main gate, and serves all of the supply and warehouse areas. The Marine Corps also has cognizance over a Department of Defense rail line which extends from

the supply area at Camp Lejeune to Cherry Point. However, it has not been used for several years and is presently in need of maintenance and repair.

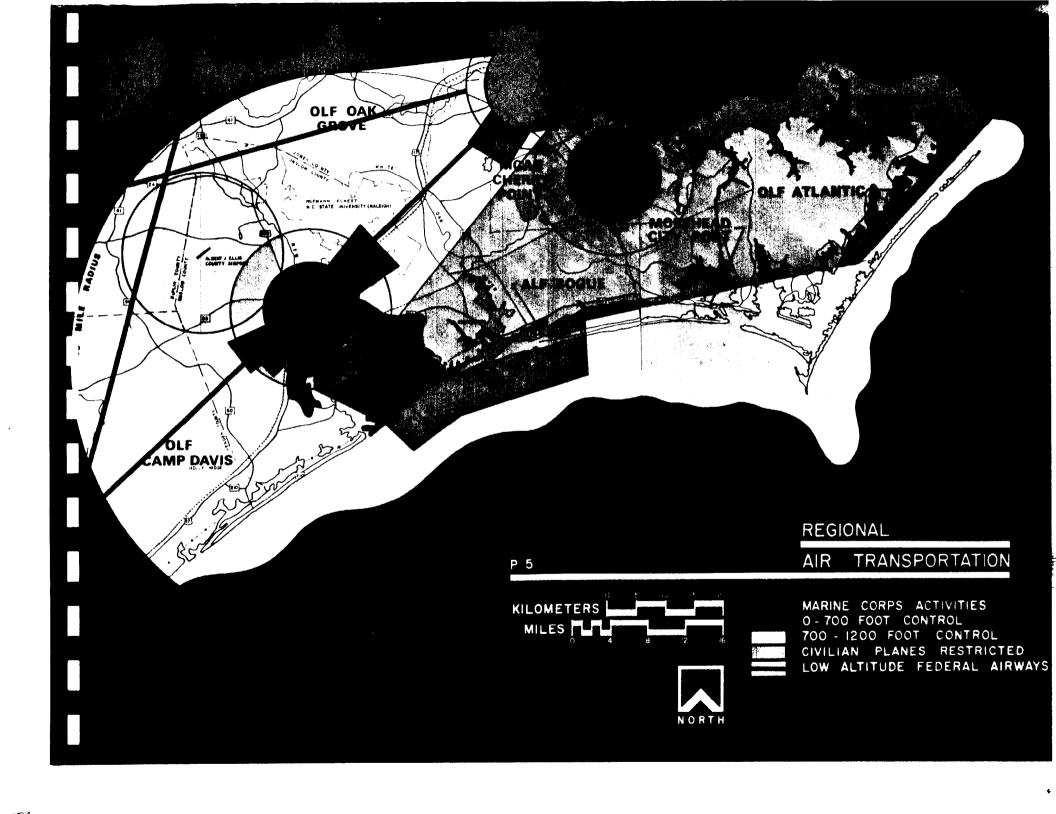
The Intracoastal Waterway, which extends almost the entire length of the east coast, passes through the Camp Lejeune Complex and runs through the natural protected waterways formed by the barrier banks and the mainland. The waterway carries a heavy flow of private pleasure boats during the warmer months of the year and a steady flow of commercial barges year around. Several of the small towns and cities along the route have developed water-oriented commercial areas having marinas and boat maintenance and storage facilities to serve the waterway. The region contains several large coastal estuaries such as the Neuse River, the New River, and the Oak River. These are navigable and are used for commercial fishing and shrimping.

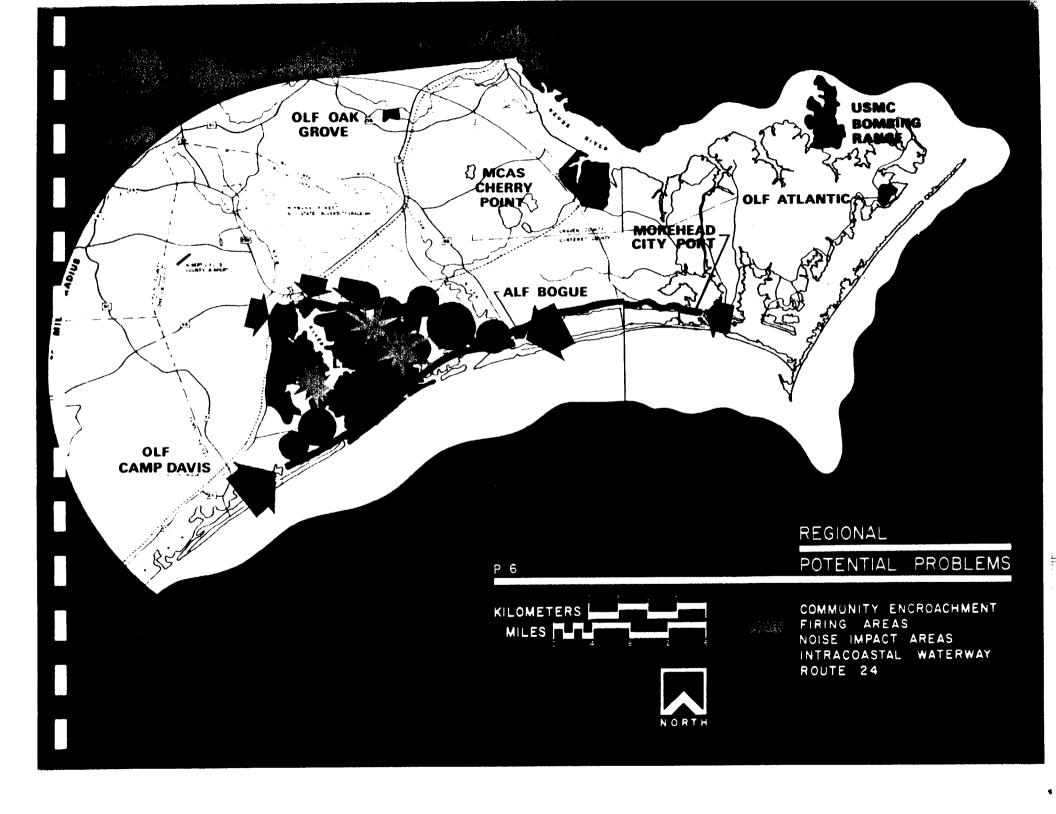
### (b) Air Transportation Network

Air transportation within the regional study area is divided between civilian and military operations. Plate 5 illustrates the combined airspace use for the study area. The commercial operations are conducted out of both the Albert J. Ellis Airport near Jacksonville and the New Bern Airport. Ellis Airport has one runway, which has recently been extended to 7000 feet in length, capable of serving jet aircraft. The New Bern Airport has two runways and is also jet-capable. Both airports are served by Piedmont Airlines which operate daily flights to Washington, D.C. and other military bases in the south. Plate 6 indicates the areas in which civilian aircraft are restricted, due to the various military ground and air operations which are conducted there. The airspace surrounding the commercial airports is also restricted as to the allowed flight altitudes. Three low altitude federal airways pass through the study area as shown.

The military flight operations conducted within the study area are more complex. These involve the helicopter and fixed wing non-jet operations

3





originating at MCAS(H) Jacksonville, the all-weather jet aircraft operations from MCAS Cherry Point, and the training operations conducted at the auxiliary and outlying fields. The majority of helicopter operations from MCAS(H) Jacksonville are done in conjunction with the Marine Corps Base training maneuvers throughout Camp Lejeune. These are discussed and shown in more detail in Section III-D-2(b) and IV-F-2(d). Other helicopter operations are also conducted at OLF Camp Davis and OLF Oak Grove. Periodically, large scale training maneuvers are conducted by the Marine Corps on non-military property such as the Hofmann and Croatan Forests. Helicopter operations are used in support of these maneuvers as well.

Jet aircraft operations originating from MCAS Cherry Point are more extensive and involve OLF Atlantic, ALF Bogue, and the Marine Corps bombing ranges to the northeast of Cherry Point. Bombing practice is also conducted in the impact areas of Camp Lejeune.

#### (c) Utility Distribution Network

The utility systems within the regional study area are largely limited to individual systems for the few areas of higher population density such as Jacksonville, New Bern and Morehead City. In addition, the Camp Lejeune Complex and MCAS Cherry Point have extensive utility systems of their own.

The city of Jacksonville operates a single municipal sewage treatment plant which is limited and cannot supply all of the rural area surrounding Jacksonville and the Camp Lejeune Complex. In addition, the predominantly flat terrain limits the area that can be served by a single plant. Therefore, there are many individual septic tank systems throughout the regional study area. These systems contribute to the overall pollution of the New River, the Oak River and the Neuse River. The effluent from the Jacksonville Municipal Plant and the existing sewage treatment plants at the Camp Lejeune Complex empty into the New River basin.

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Potable water for almost all of the regional study area is obtained from wells. Because of the geological formation of the soils, large quantities of water are available from wells drilled to an average depth of 200 feet. The average yield per well is 200 gallons per minute.

The study area is connected to the east coast electrical transmission grid by a series of secondary lines extending from the city of Wilmington to Jacksonville, MCAS Cherry Point and New Bern. For New Bern, the lines proceed northward again to the city of Greenville. Electrical power is locally distributed by the Carolina Power and Light Company and the Jones-Onslow Electric Membership Corporation. Electrical power generating plants are located at Wilmington and Cherry Point. Wilmington is rated for 1000-2500 megawatts while Cherry Point has only a 10- to 25-megawatt rating.

The study area contains no crude oilor liquid gas pipelines, but does have two 22" natural gas pipelines which extend south to Wilmington and north to New Bern.

The area contains no appreciable deposits of oil, natural gas, natural liquid gas, or coal or oil shale. Continuous natural gas service is not available in most parts of the study area including the Jacksonville area. Individual bottled gas is predominantly used. Telephone service throughout the area is provided by Carolina Telephone and Telegraph Company.

# C ECOLOGICAL INFLUENCES



The development of the proposals for the Camp Lejeune Complex includes a comparison of the facility and operational requirements and the potential physical capability of the site. This potential capability is determined by combining and analyzing the constraints imposed on the land by natural and man made factors. This section will investigate the ecological influences for the overall Camp Lejeune Complex. Many of the natural features of the base are discussed on a regional basis in Section II-C, and are reviewed briefly here. The natural features which are considered to restrict Marine Corps development include:

- 1. Land formations
- 2. Topography
- 3. Ground cover
- 4. Soil types
- 5. Drainage, ground water and tides
- 6. Geology
- 7. Fauna

## 1 LAND FORMATIONS

The land formations within the Camp Lejeune Complex are shown in Plate 7 and described in Section II-C-1. The six classifications in the regional analysis have been retained and applied in greater detail.

## 2 TOPOGRAPHY

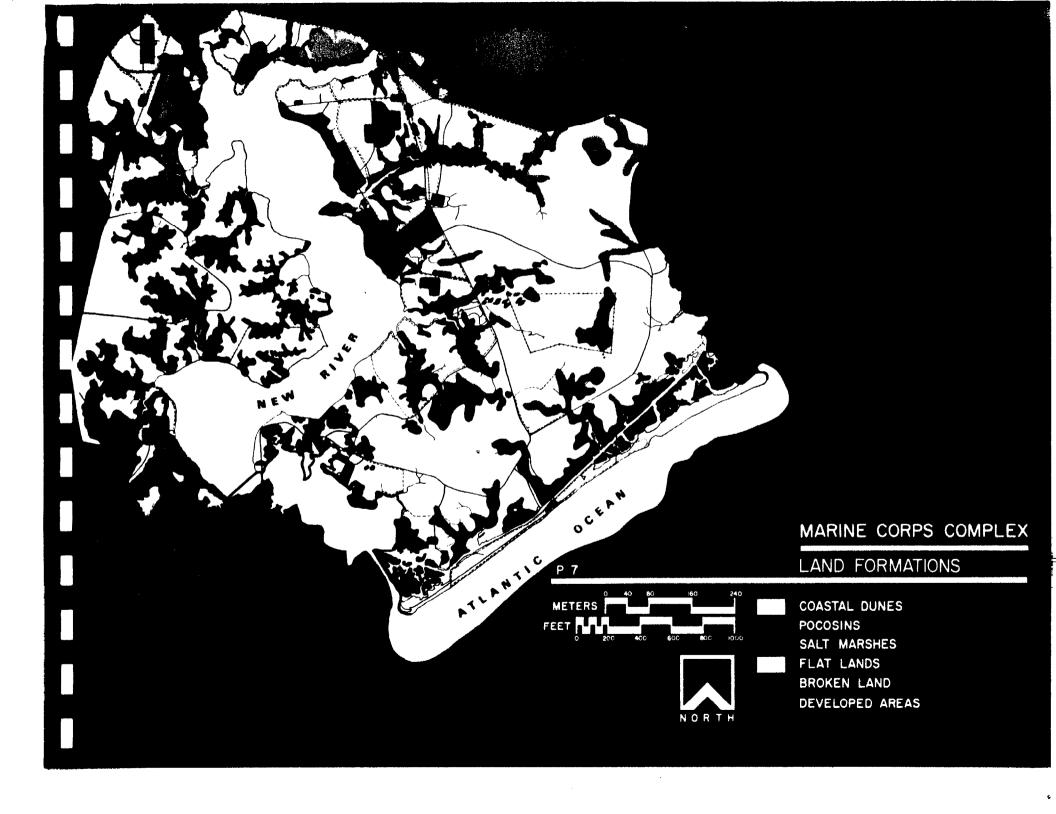
The topography of Camp Lejeune can best be visualized as a flat plain sloping gently toward the New River. The elevation ranges from sea level to 72 feet; however, most of the land is from 20 to 40 feet above sea level, as can be seen in Plate 8. The coastline is paralleled by a series of alluvial deposits and tidal salt marshes which are protected by relatively stable sand dunes forming the barrier strip along the coast. These sand dunes generally range from 15 to 20 feet in height. The flat plain is crossed by streams which are relatively short and have strongly sloping sides with V-shaped cross-sections. However, because of the shallow slope of the topography, and the relatively few streams, drainage is the most critical factor which determines the suitability of soil for development. The base is encompassed by vast areas of pocosins and swampland which evolved because of these topographic features.

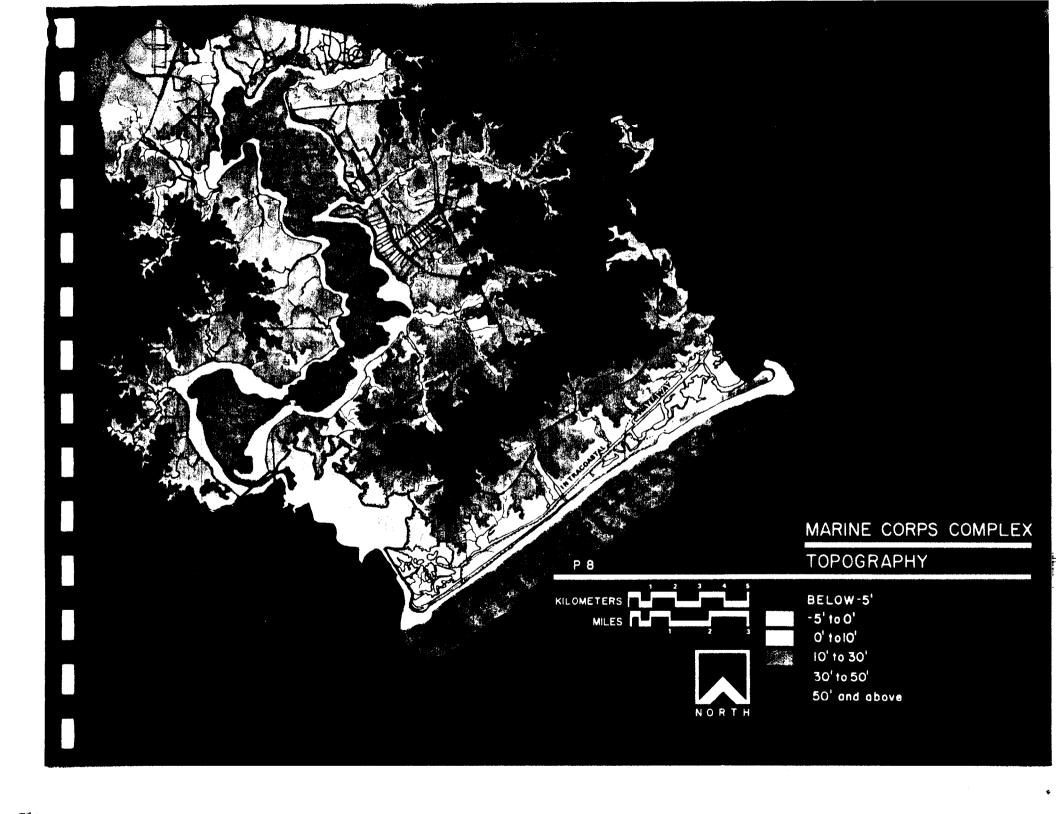
## 3 GROUND COVER

Camp Lejeune is predominantly arboreal or tree-covered in nature with extensive amounts of softwood, primarily loblolly pine, but with other pine species and substantial stands of hardwood. Plate 9 illustrates the various types of ground cover. The total managed forest covers over 60,000 acres (total base land area is approximately 70,000 acres) and is 230,000,000,000 broad feet in volume. Areas on the periphery of forests contain several species of shrubs, vines and herbs. Areas with acidic soils contain species of carnivorous plants including the venus flytrap, sundew, and pitcher plants. Upland pocosins in the base are overgrown with brush and uneconomically harvested species of pine.

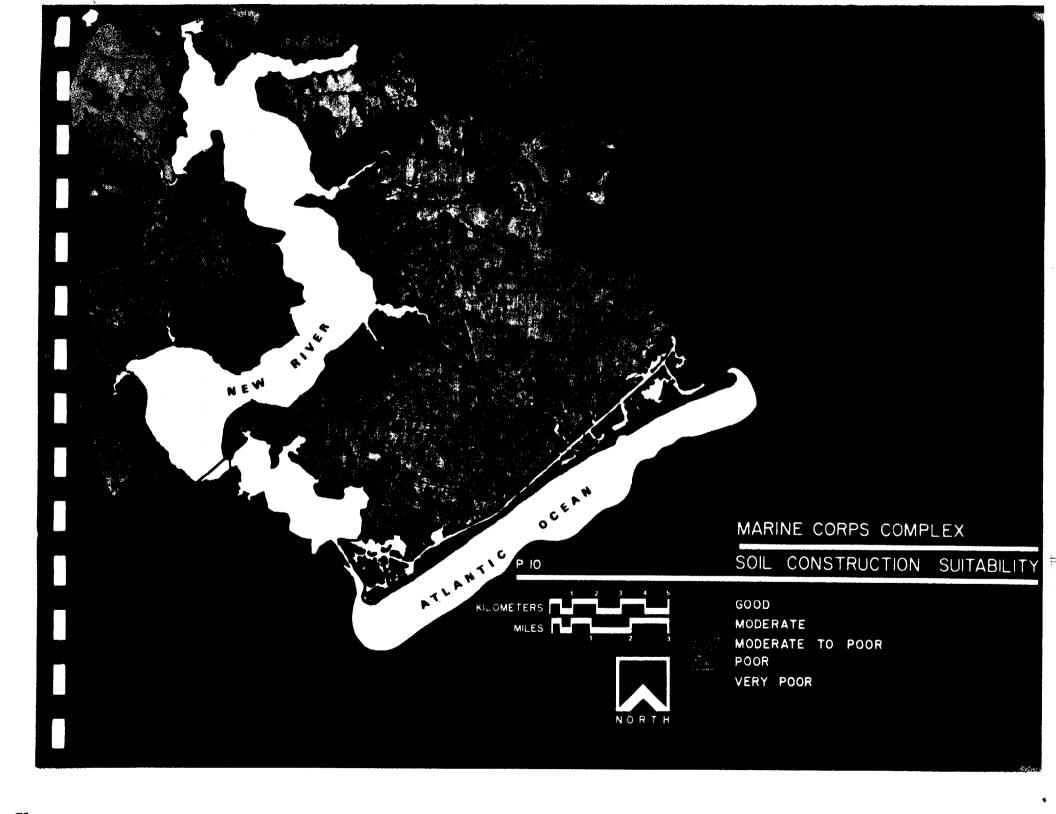
## 4 SOIL TYPES

Soils consist of fine sands, silts, clays and a bluish gumbo-like mud of great plasticity, as shown in Plate 10. Near swales and gulleys, the strata dip in such a manner as to indicate subsidence due to underlying ancient river channels or solution channels in the limestone. Relief has









nouning [	Table 1. Pormat and Description of Initial Assessment Study Report		
	Foreword - Explains the importance of the report and the NACIP program to the Navy.		
nothing	Acknowledgements - Commends the support, assistance, and cooperation provided by the activity, EFD, and other personnel during the study.		
nothing	/ O Introduction - Gives authority for study and a brief description of NACIP program, Initial Assessment Study, and what is included in the report.		
nothing	2.0 Significant Findings - Summarizes findings, evidence that supports or discredits contamination or migration, and other observations of interest to the activity.		
nothing	3.0 Conclusions - Includes reasoned deductions or inference from the significant findings concerning the probability of contamination and for the migration of contamination.		
nothing	4.0 Recommendations - Recommends NACIP confirmation study or other action, if necessary, based on findings of and observations during the study.		
	5.0 Background		
saited,	General - Describes location, size, and major facilities at activity, illustrating the activity boundaries and surrounding facilities.		
Fo war comments operations, and dates of real estate acquisitions.			
5.3 A Physical Features			
	3.1 3 Climatology - describes temperature ranges, precipitation amounts and occurrences, humidity, evaporation and evapotranspiration rates, frost depth, and wind direction and speed.		
at WPC york	ybranding 5.3.2 5 Topography - describes terrain and drainage basins.		
at we you	Keyboadm 5.3.3 5 Geology - describes, in detail, geological formations out- cropping at and underlying the activity, and types and characteristics of strata.		
<b> </b>	5.3.4 to Hydrology		
	and uses of surface drainage and bodies of water at and adjoining the activity.		
	Groundwater - discusses location, direction, rate of flow, quality, and uses of groundwater at the activity and surrounding areas, identifying recharge and discharge areas and other characteristics of the groundwater.		
	5.3.4.3 Migration Potential - assesses the probability, rate, and direction of contamination migration, if present, based on geology and hydrology. Also assesses the potential of on-base migration from off-base sources.		

Table 1. Format and Description of Initial Assessment Study Report (Continued) Biological Features 5.4.1 Herrestrial Ecosystems - describes flora and fauna on land areas of the activity, and types, occurrence, age, condition, and health of various species, with special emphasis on unusual conditions that may indicate contamination. Wetlands Ecosystems - describes flora and fauna of wetlands -5.4.2 € areas, including similar information as described above in "terrestrial ecosystems." -5.4.3 • Aquatic ecosystems - describes flora and fauna of aquatic areas, including similar information described above in "terrestrial ecosystems." Rare, Threatened, or Endangered Species - identifies and describes any, rare, threatened, or endangered species and their habitats at the activity. 6.0 Activity Findings Operations, Ordnance Includes a section describing each ordnance operation at the activity, emphasizing years of operation; location; chemicals/materials used in the operation, including amount, supplies, storage site; spills and accidents involving chemicals; waste products, emissions and discharges (airborne, waterborne, and scrap), including disposal locations and amounts; and deposition of bad lots of materials. Demilitarization and ordnance testing operations are included in this section. - 4.2 R Operations, Non-ordnance Includes information as previously described in "operations, ordnance" applicable to non-ordnance operations including metal-plating, degreasing, painting, machining, vehicle and locomotive maintenance, pest control, battery service, printing, electrical maintenance, steam production, vehicle and other washing operations, and water treatment. 6.3 🕳 Operations, Radiological Includes information as previously described in "operations, ordnance" applicable to radiological operations including radiological instrument calibration, magnesium-thorium alloy and uranium counterweight fabriction and refabriction, and medical tracer research. This section also includes information on equipment containing radiological materials, such as smoke detectors, lensatic compasses, divers' watches, gas chromatographs, and radiography sources. -6.4 & Material Storage

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handling or storing, and years of operation.

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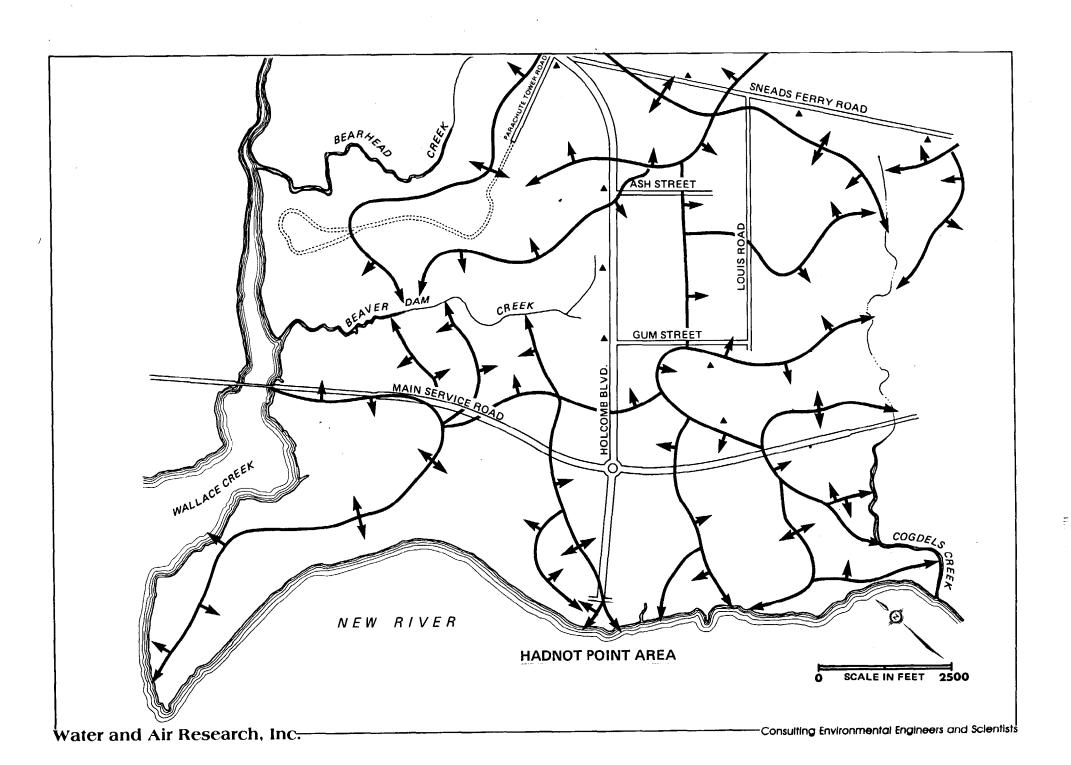
Table 1. Format and Description of Initial Assessment Study Report (Continued)

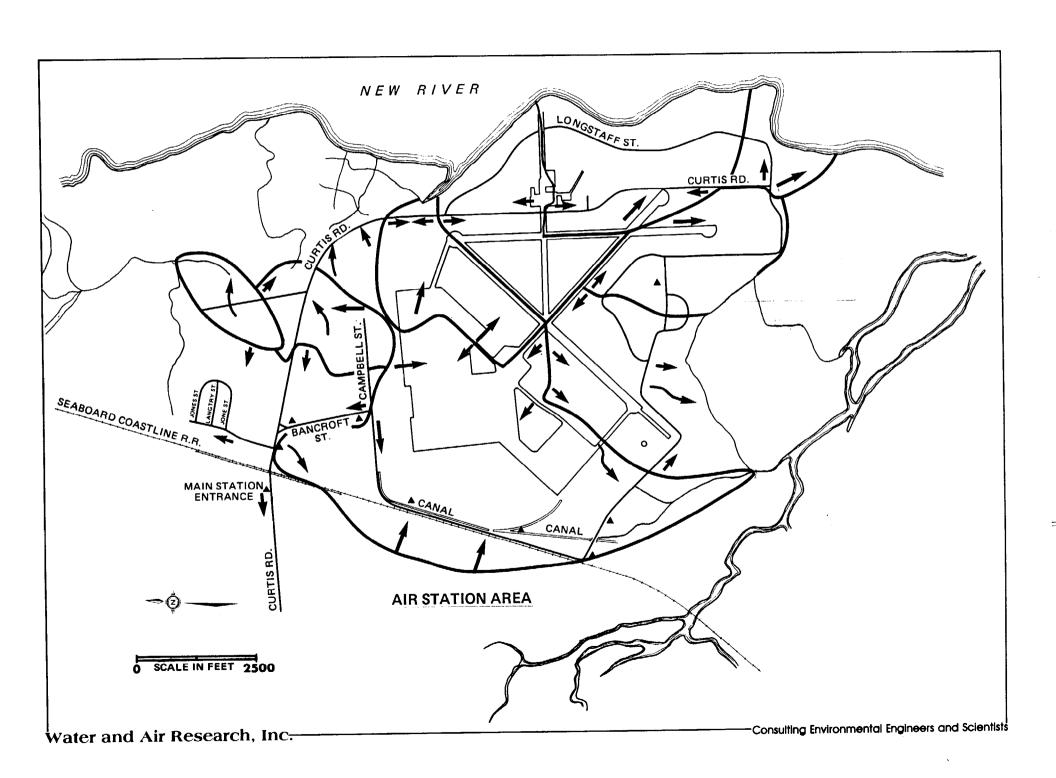
incineration, sludge disposal, radiological materials disposal, and ordnance disposal operations. Included are dates of operation, amounts and types of materials disposed of, residues that remain, and any incidents or monitoring information.

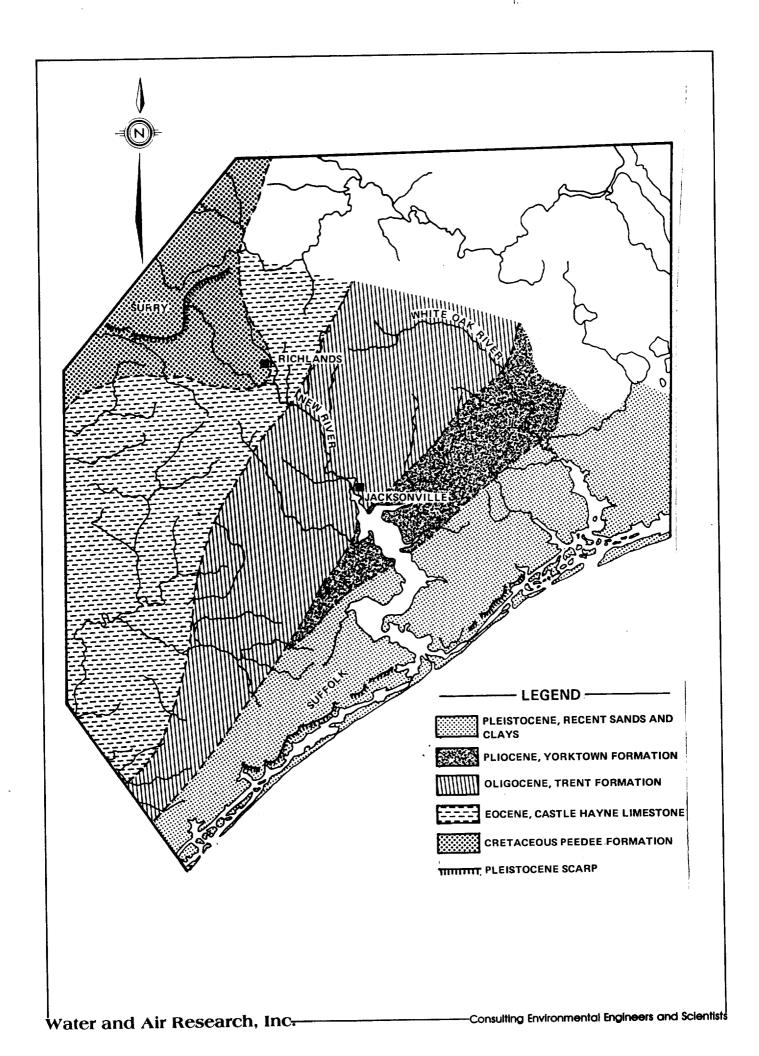
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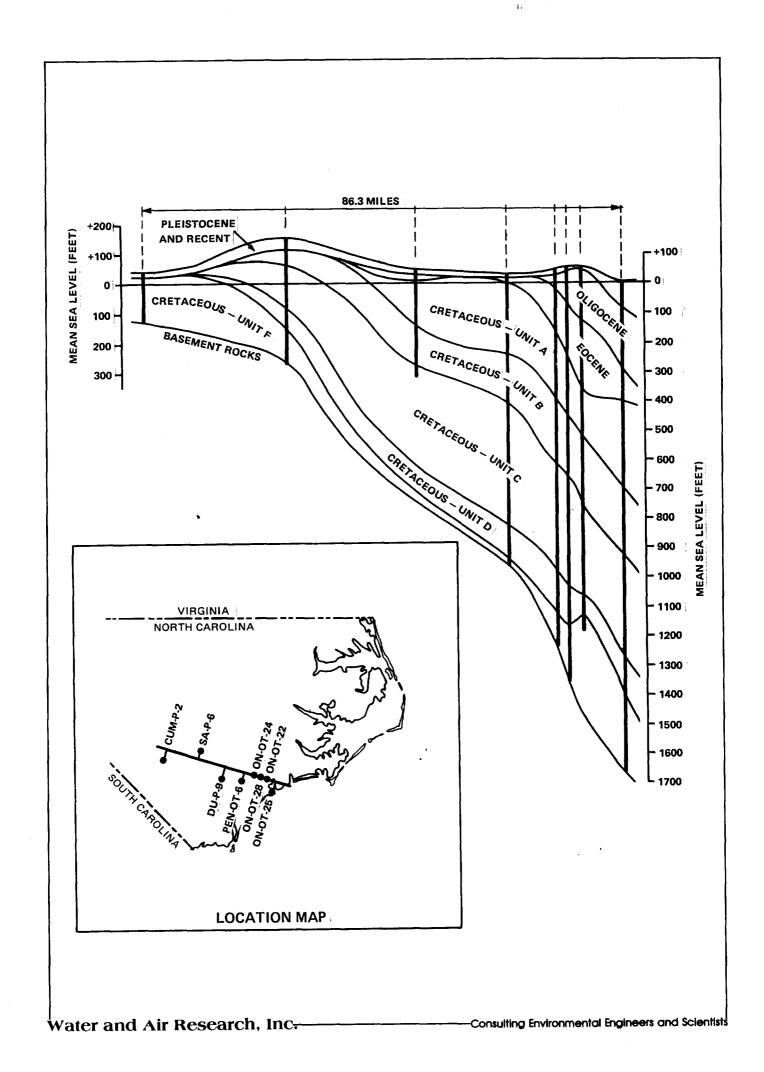
edited red 6.5 = Waste Disposal Operations WASTE DISPOSAL OPERATIONS

Commercia Work



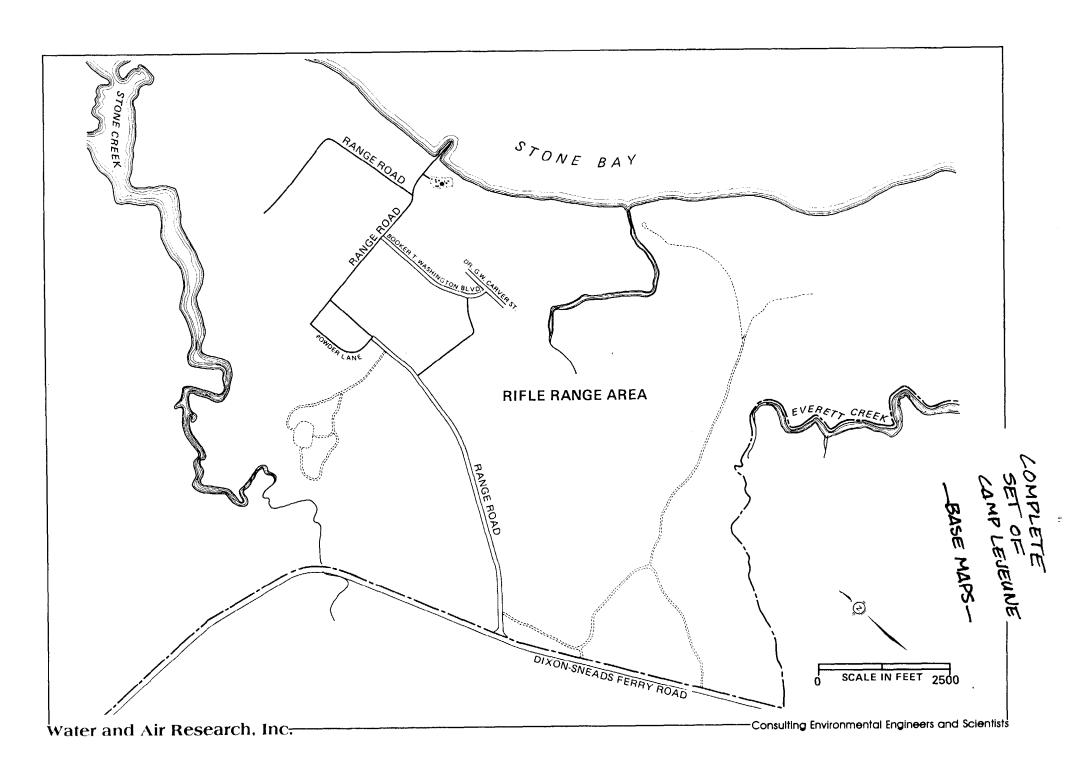


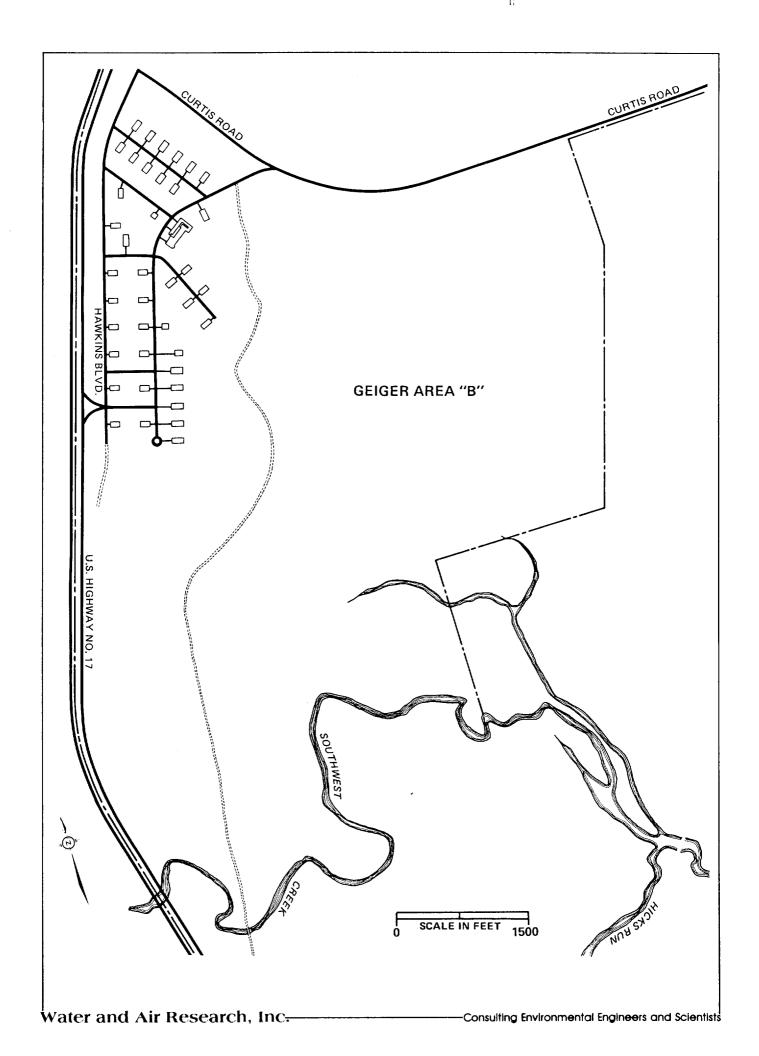


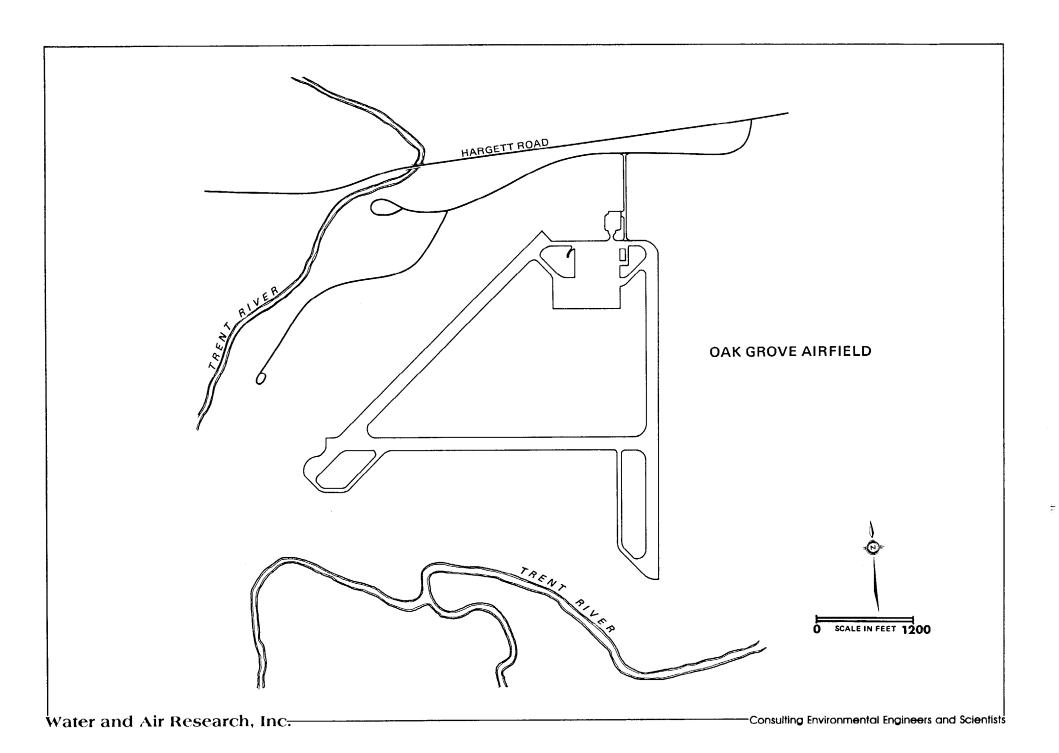


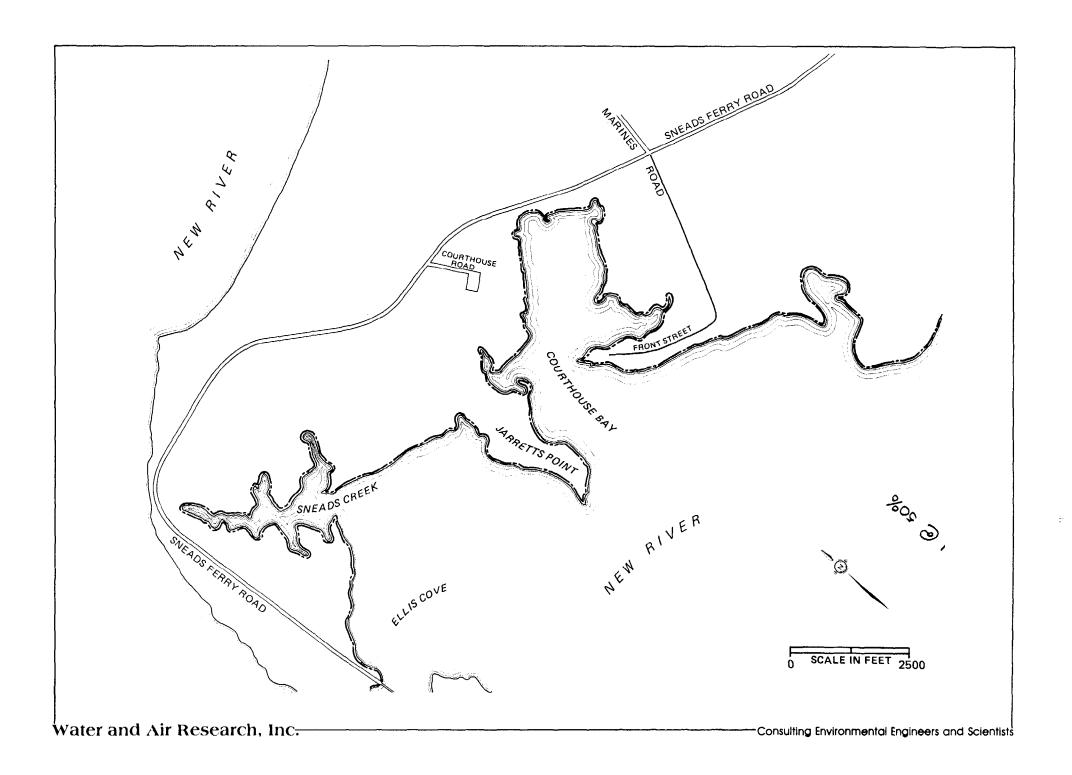
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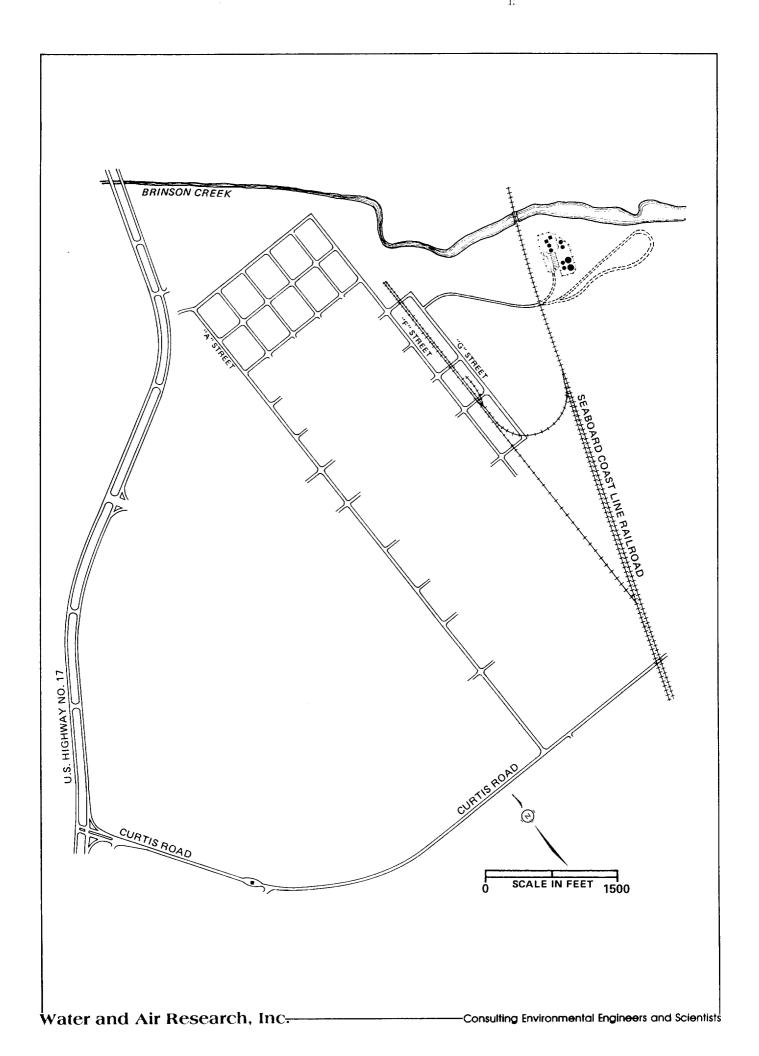
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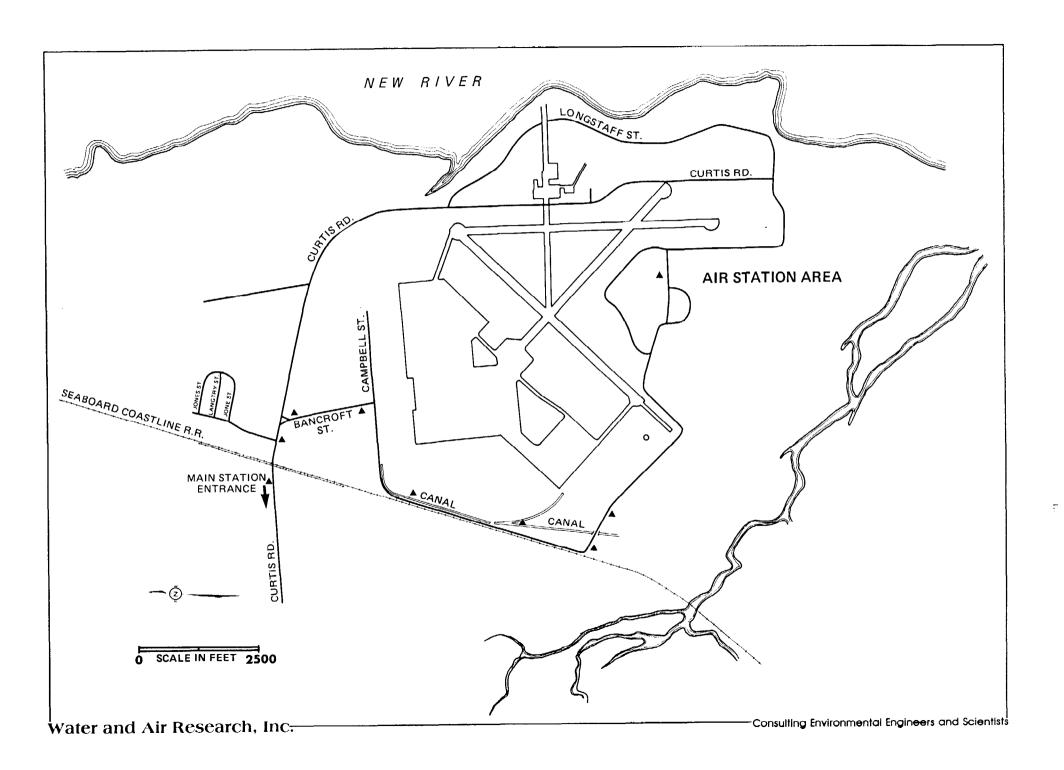


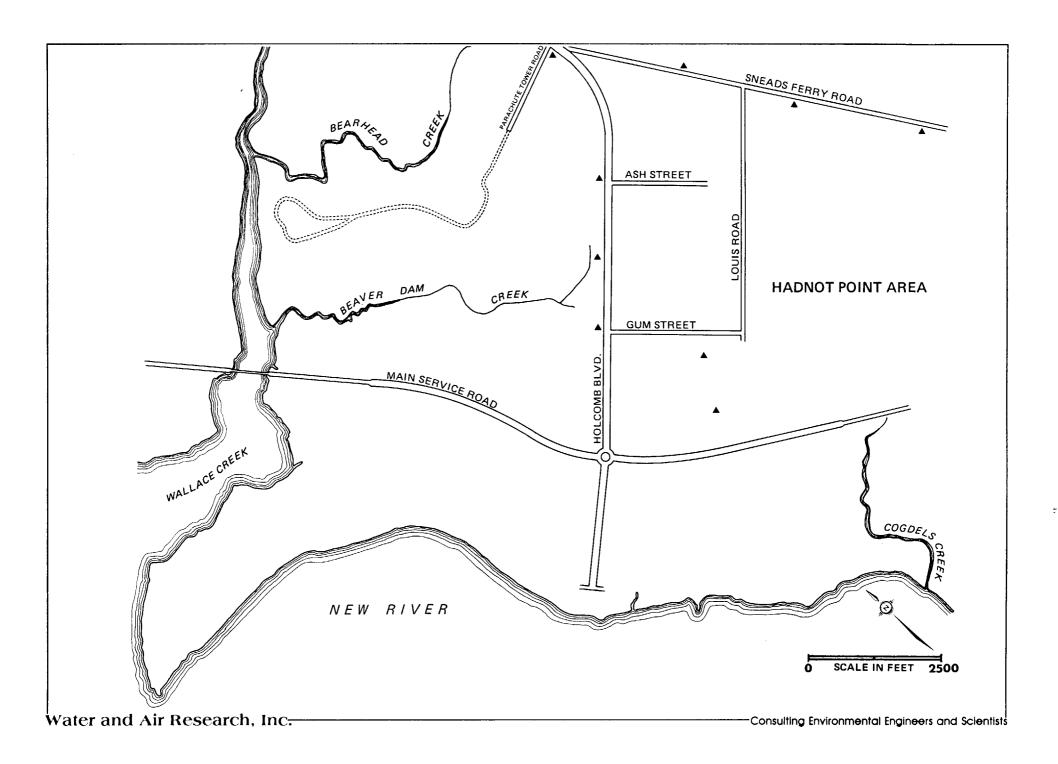


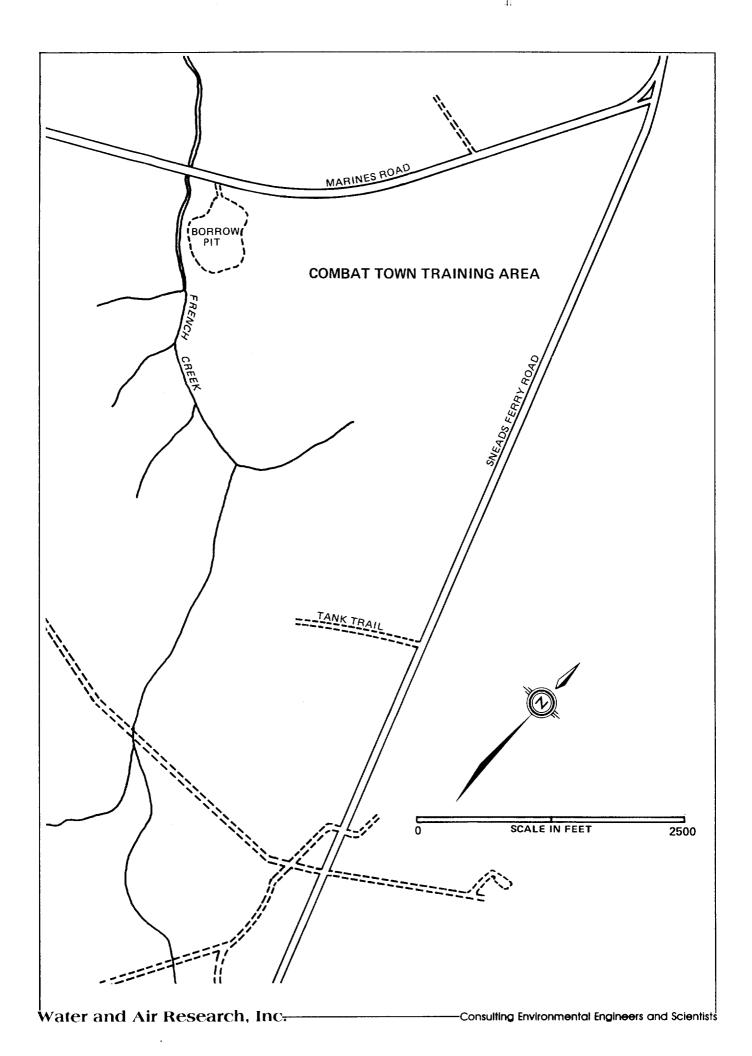


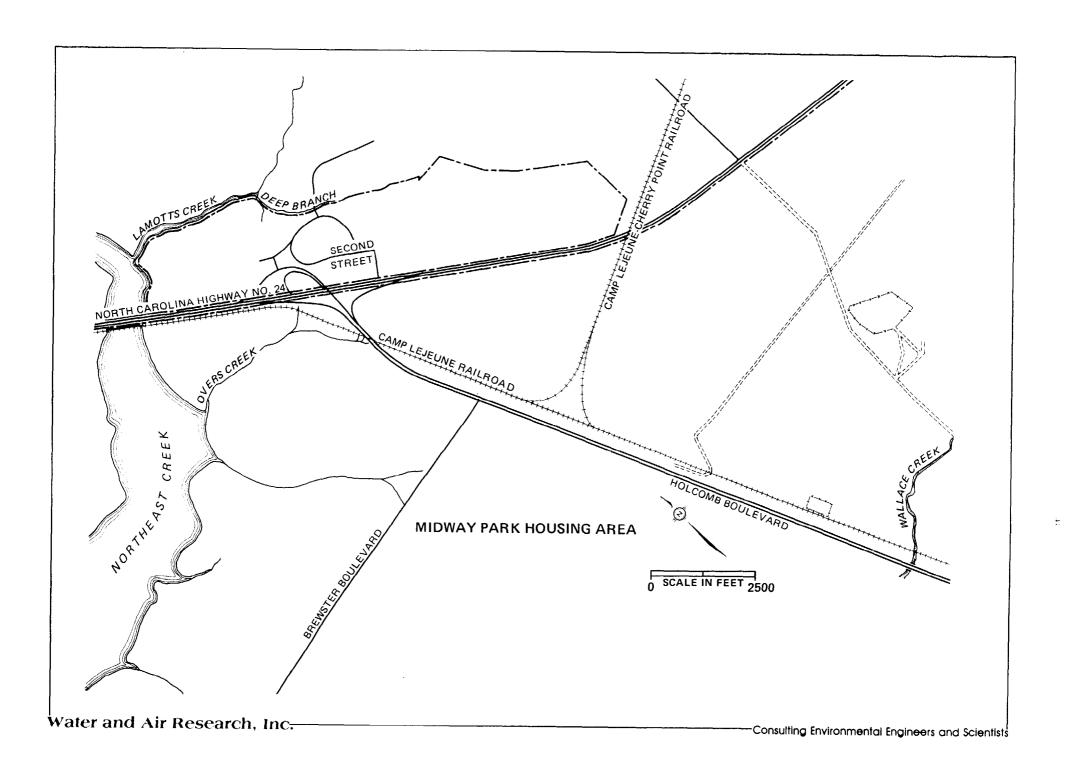


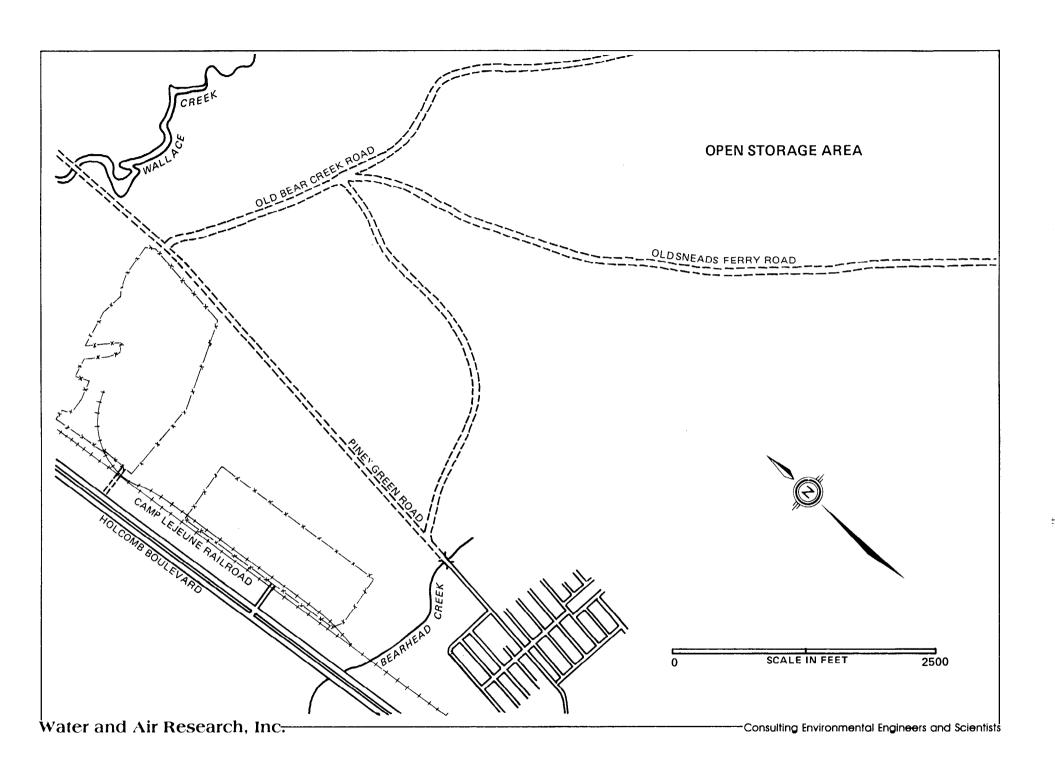


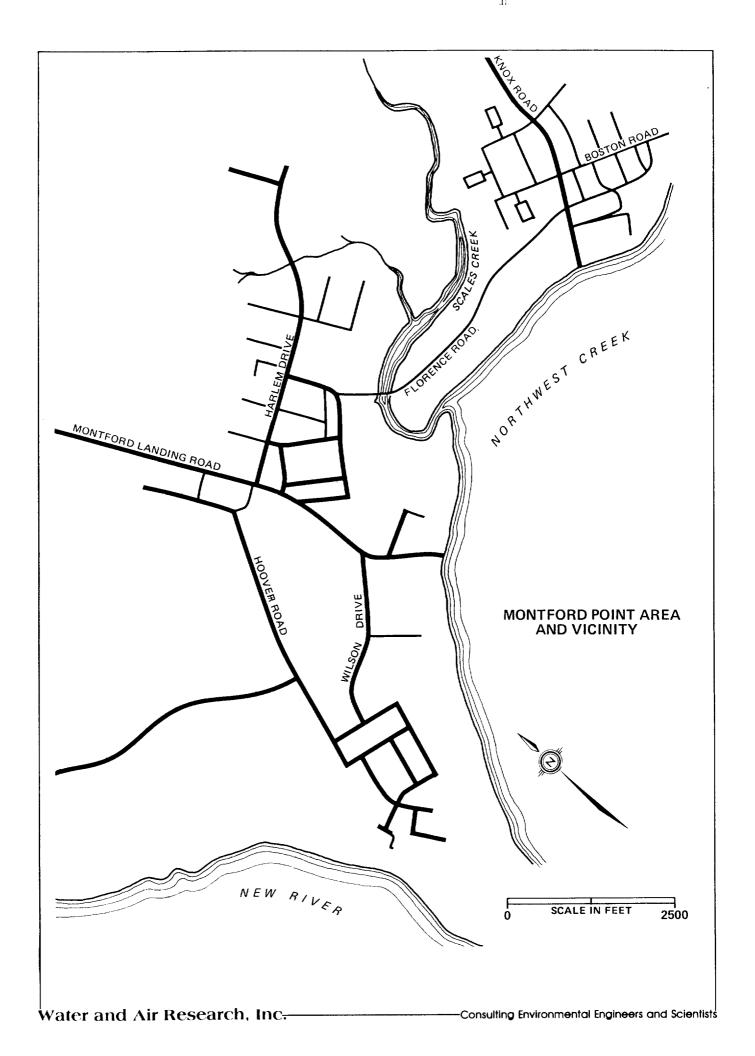












Comp Sejame

Pot Cul

Confirmed Sites

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Site	- Neorest - Well H	Coordinates/Sit
. 1	RR 227 (WENT-1)	•
4	TC-201 (weel-H)	3B-GRIGERE-B.
3	638 (wes-)	7D-Franci, Creek
11	635 (deep = 35)	4K-Opinstoroge
12	610,636 (wee 10+36) 651 (weel	21 41 Open Stoney 6 46 " "
14,	M-142 (Well# - Not IO) H-629 (Well# "")	126 - Montford Pt. 3-6- Montford Point.
18	4006 (deep week)	J-11- Midway Parks
25	602 (deepweel #2) 634 (deepweel #34) 642 (deepweel #	14-2 1Jelent Pt 17-2. "
26	638 (deep week)	7D Dobust pt.
27	601 (weel #1)	134 Habart pt
40 45 75	RR-45 (week-5) A-5 (week) 645	1-1 - Rifle Runge 10-H "" 35 = Midway Parke

# Camp Sejenne

Wells & good confining bods.

HP-610-(7); HP-611 (20pt); HP-612 (32pt); HP-614

(23pt+); HP-615 (22pt); HP-616 (27pt); HP-617 (20pt+);

HP-618 (52pt); HP-619 (20pt); HP-620 (~20pt); HP-621

(23pt); HP-633 (31pt); HP-642 (35pt); M:- × (~20pt);

MT-X2 (18pt); MP-142 (26pt); PP-3 (33pt); MCAS-1256

(26pt); BB-220 (22pt); TC-104 (46pt); TC-325 (17pt);

TC-502 (35pt); RR-45 (69pt); RR-227 (~20pt); RR-47 (~20pt); RR-47 (~20pt);

Wells = little or no confinent

HP-610 ; HP-601 (94t); HP-602 (\$); HP-603 (~54t); HP-604

(HA); HP-605 (T); HP-606(T); HP-607(84t); HP-608;

HP-609; HP-613(64t); HP-634 (<104t); HP-635 (~24t);

HP-636 (<204t); HP-655 (04t); M-267 (64t);

M-627 (24t); PP-4 (64t); McAS-1255 (164t);

Blog A-5 (104t); BB-43 (104t); BB-44 (04t);

TT-25 (9.54t); Camp Gaign Wello (~124t); Tc-100 (0)

Tc-201 (04t)\*; Tc-202 (04t)\*\*; Tc-300 (~104t);

Tc-504 (04t); Tc-901 (84t)\*\*; Tc-604 (94t);

Tc-1,001 (134t); RR-46 ft (104t) Notember; Breach: BA-109

(04t)\*; BA-110 (04t); BA-112 (04t) (Breach wello notember);

M-243 (04t)\*\*\*; M-244 (~124t)\*\*; Midway PR-4006 (124t)

\*; Paradiso Point -2322 (12ft)\*\*\*;

\*\* Vory shallow. May tap tyorktown or Queternary. \* Screened above confing bed.

Wello = good confing beds, cont. M-141 (17ft)\*\*; M-143 (23ft); M-628 (~18ft)\*\*; Midway PR-4006 (~19ft) \*\*; CAMP KNOX CCC#2 (20ft+) \*\*;

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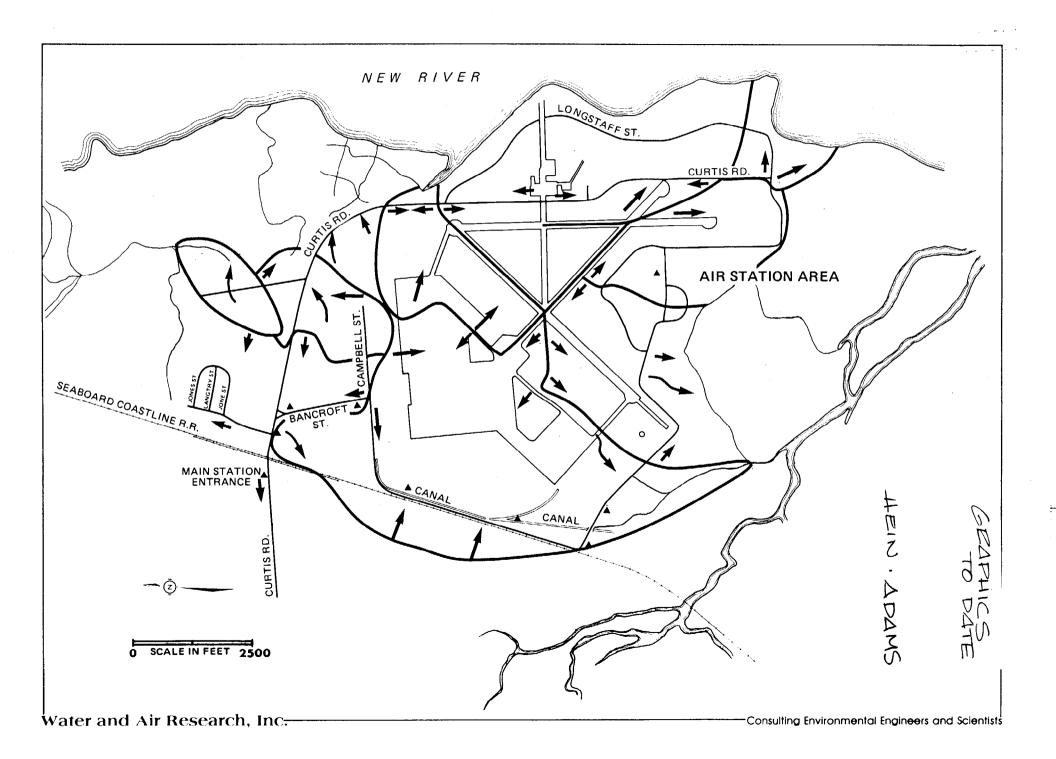
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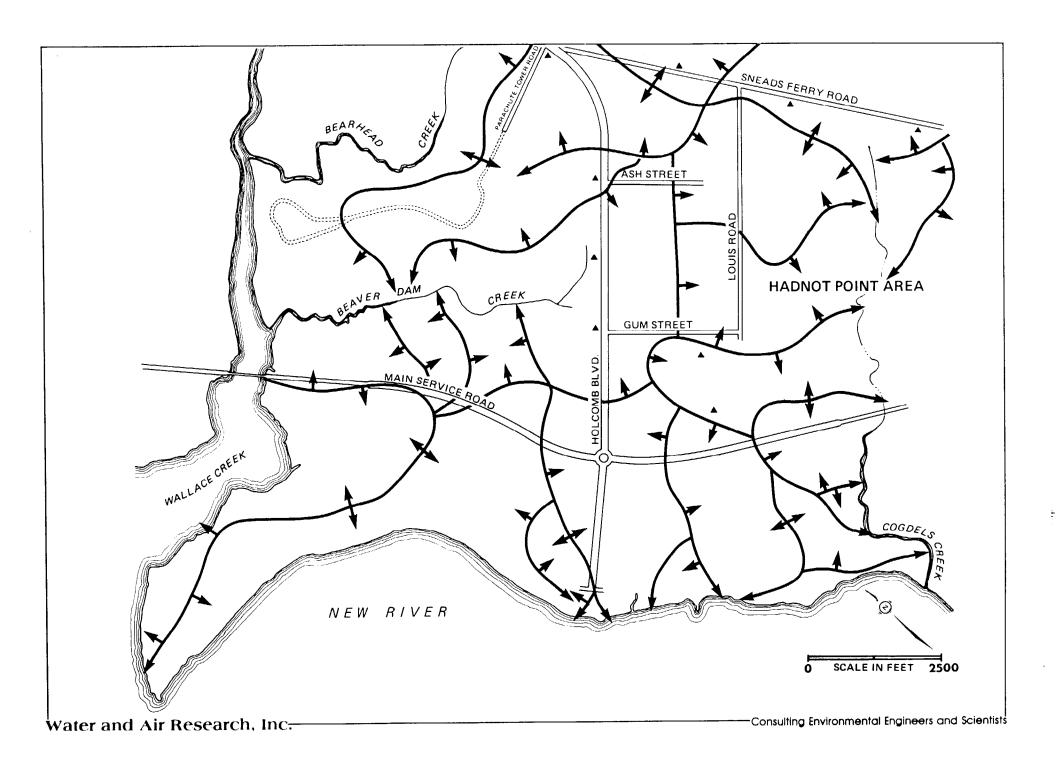
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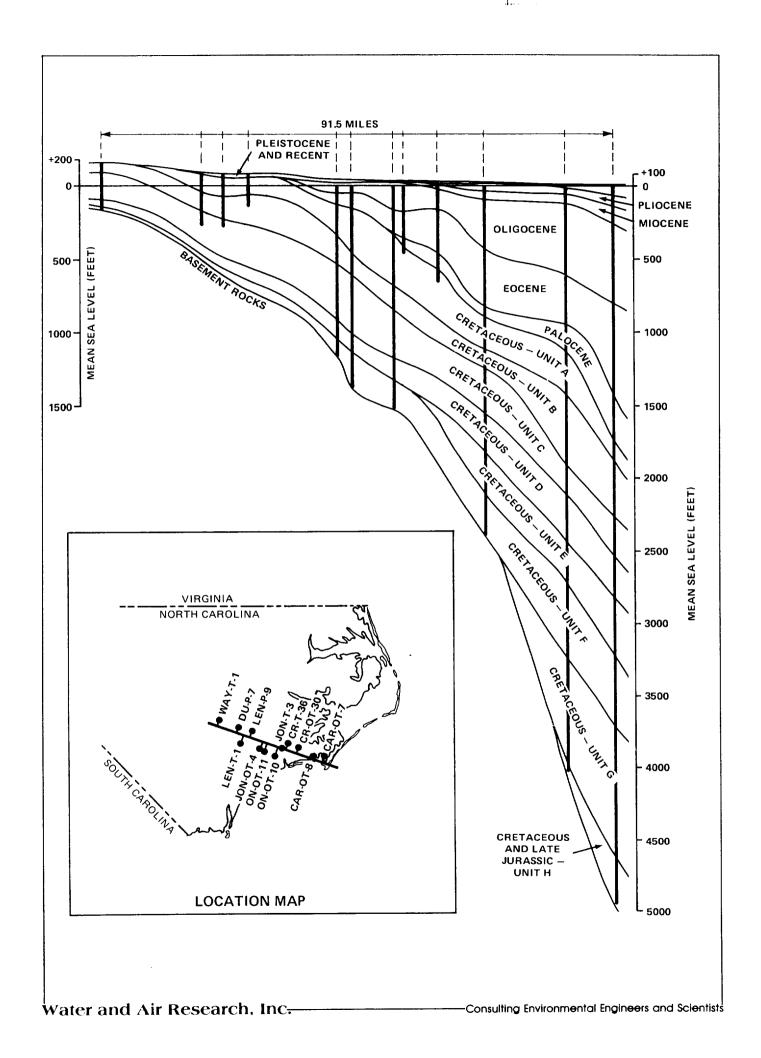
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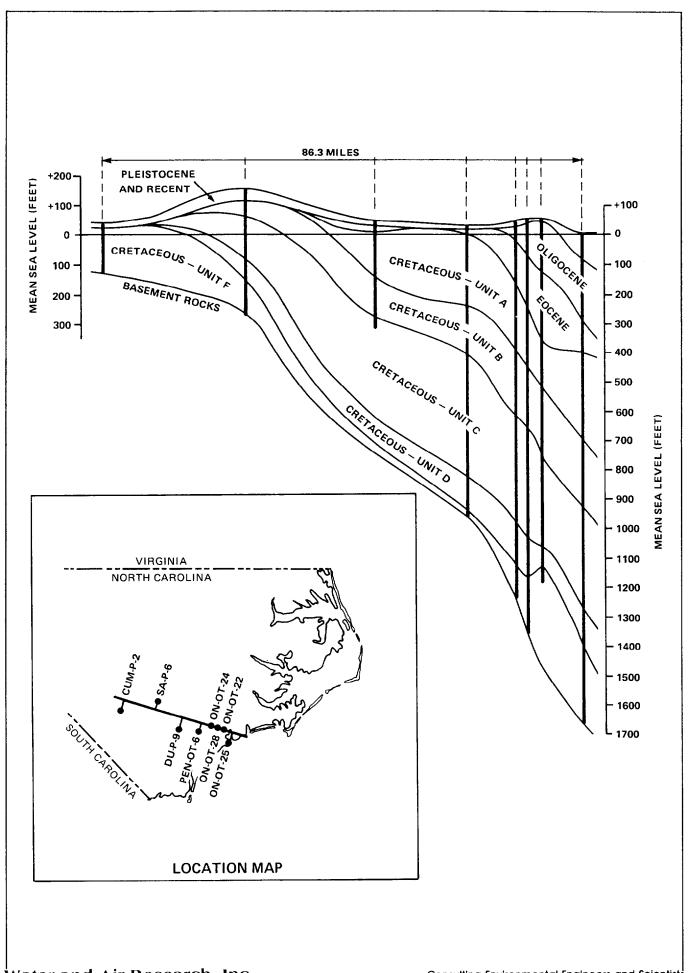
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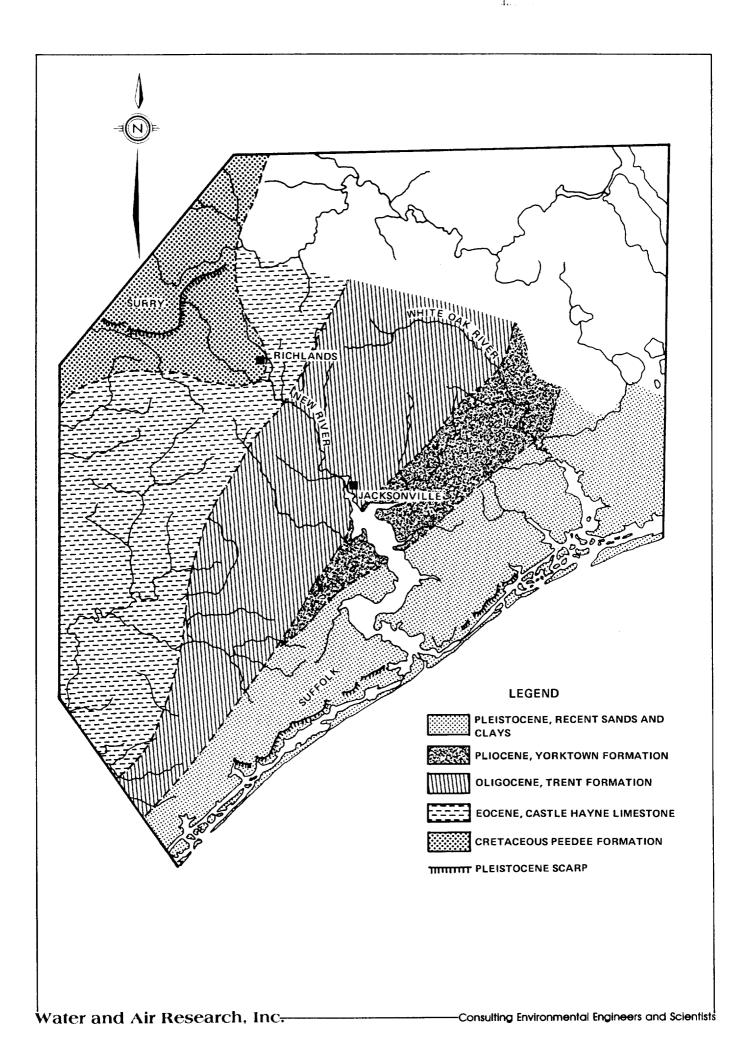
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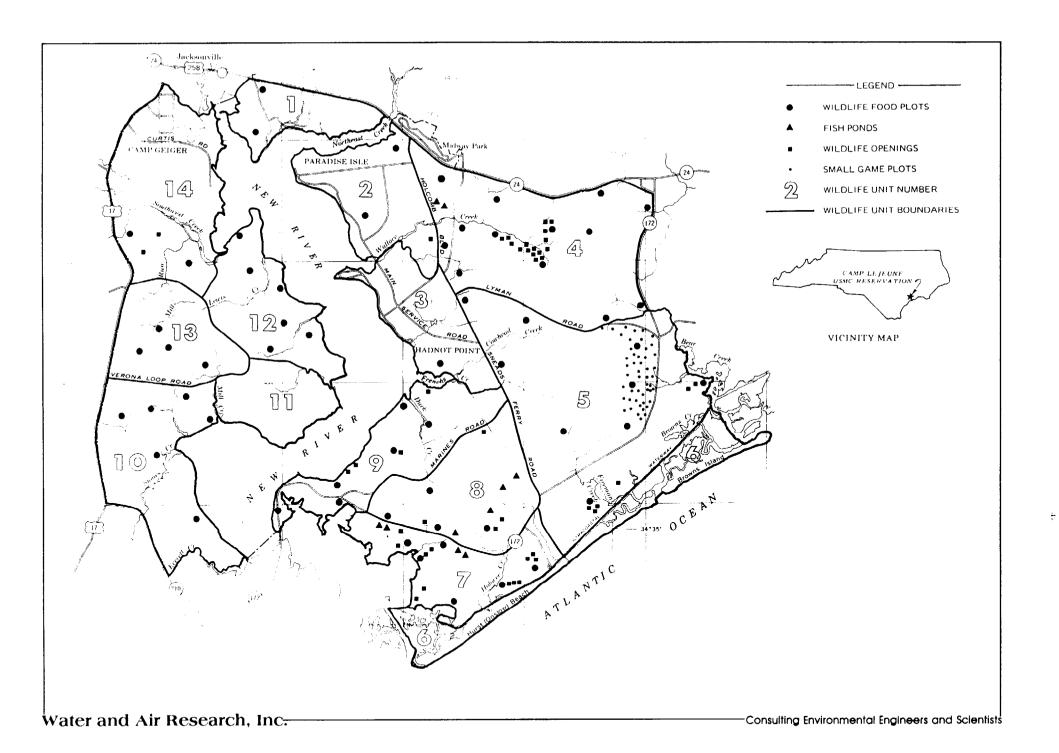


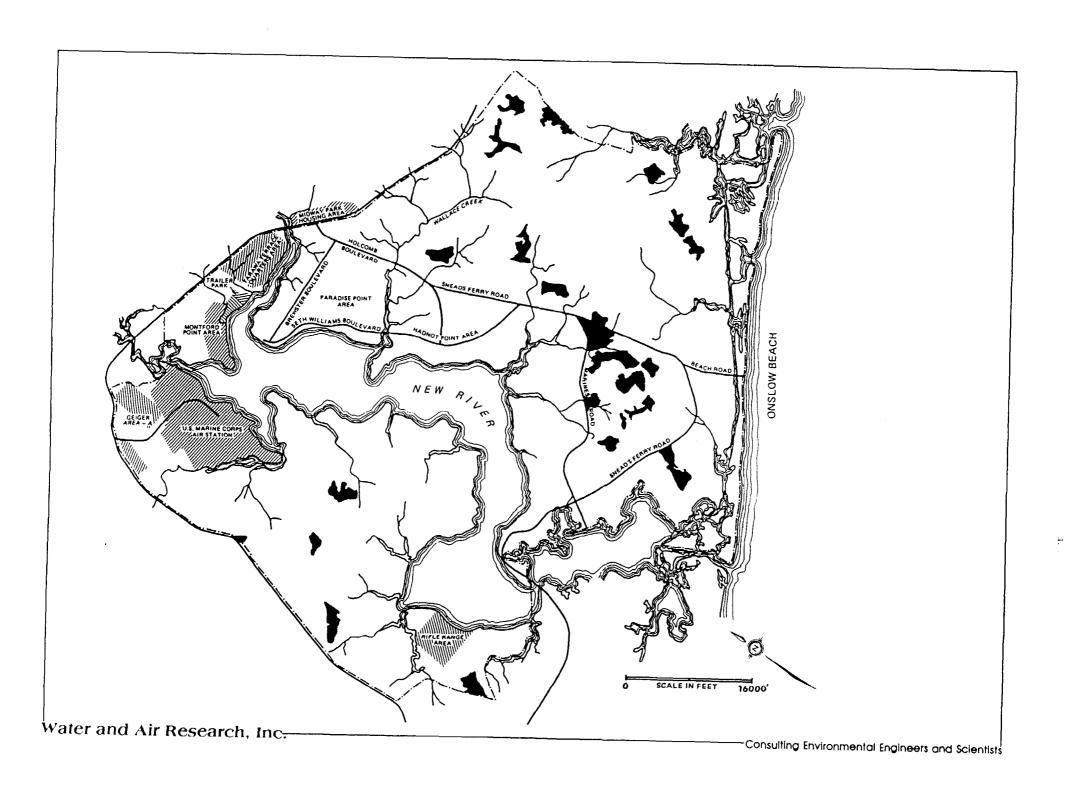


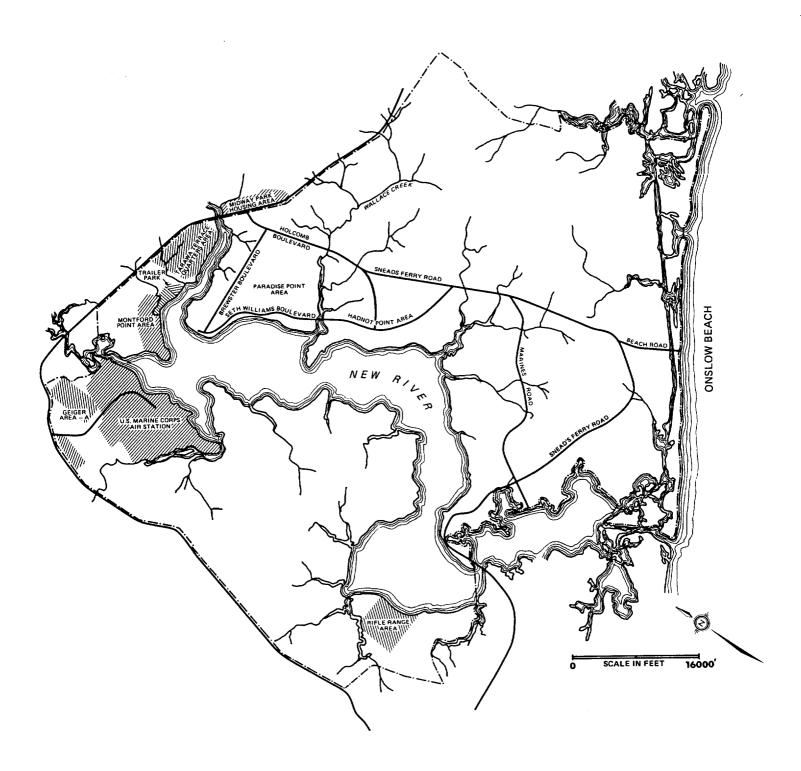












#### CONFIRMATION STUDY RANKING SYSTEM

## Background

With the passage of "Superfund," or CERCLA, in December 1980, a need for a systematic approach towards the clean-up of old hazardous waste disposal sites became apparent. The Department of Defense (DOD), anticipating "Superfund," established the Installation Restoration (IR) program. The Navy's section of this program is the Navy Assessment and Control of Instillation Pollutants (NACIP) program.

This program consists of four phases: (1) Initial Assessment Study (IAS); (2) Confirmation; (3) Control Technology Development (if needed); and (4) Corrective Measures. One of the most important steps in the program is the decision to go from the IAS, based on record searches, interviews, and minimal sampling, to the Confirmation Study, which involves extensive sampling. Another aspect of proceeding to Confirmation from the IAS is the IR program requirement to "develop and maintain a priority listing of contaminated installations and facilities for remedial action" (DEQPPM 81-5, 11 December 1981). As a result, a two-step decision process has been designed specifically for the NACIP program.

#### Description

The first step is a "yes-no" flowchart (figure 1) based on easily determined facts found during the IAS. These facts include type of waste, type of containment (spills, ponds, dumps, barrels, etc.), and hydrogeology. The flowchart tells whether to go to the Confirmation phase; to consider immediate mitigating action, such as restricting access to the site; or to do nothing if the site is basically innocuous. If the flowchart indicates that the Confirmation phase should be implemented, the user proceeds to step two.

In step two, the site is given a numerical ranking by going through the Confirmation Study Rating (CSR) Model (figure 2 and table 1). This ranking is also based on information obtained during the IAS and is the "priority listing" of sites. The model is based on the system used by the Air Force which in turn is based on a model developed for EPA by JRB Associates.

As with these previous models, the CSR Model assesses the different characteristics of each hazardous waste site including: areas of potential impact or possible receptors of contamination, pathways that the contamination may take to reach the receptors, and waste characteristics and containment. Each of these categories contains several weighted rating factors. These are then used to calculate the overall hazard rating.

The receptors rating is based on the JRB Model and is calculated by scoring each factor, multiplying by a weighting constant, and adding the weighted scores to obtain a total score for the receptors category.

The pathways rating is taken from the Air Force Hazard Assessment Rating Methodology (HARM) model. This rating is based on direct evidence of contamination migration or on the one of three pathways with the highest contamination migration potential. If direct evidence of contamination exists, the pathways category is given a subscore of 1. If no evidence is found, the highest score from three possible pathways is used. These pathways are surface water migration, flooding, and ground water migration. The waste characteristics category is similar in format to the receptors category. The waste characteristics rating is obtained by scoring each factor, multiplying by a weighting constant, then adding or multiplying these weighted factors as indicated to obtain a total score for the category.

The CSR Model differs from the other two models mentioned due to differences in the Waste Characteristics section, and minor changes in the other sections. The major difference, however, lies in the final scoring of the sites. These previous models have based their rankings on the idea that factors, such as pathways of possible migration, location of receptors, and waste characteristics are additive as indicated by the formula:

$$U = \sum_{i=l}^{n} [k_i U_i(x_i)]$$
site
$$= Up + Ur + Uw$$

Ui = the Rating factor (1.0 is the worst, 0.0 is the best condition)

Up = the total Pathways factor

Ur = the total Receptors factor

Uw = the total Waste Characteristics factor

k = weighing constant = 1 in this instance

U — the final score or rating of the site site

This additive model is only theoretically correct if the factors considered (Pathways, Receptors, and Waste Characteristics) are completely independent of one another. However, these factors are not independent of each other. For example, an innocuous waste such as paper (low Uw) may be found in an area that has a hydrogeology conducive to migration (high Up) and be close to a large population (high Ur). If this site somehow slips into the above rating model, it will have a high priority due to the Up and Ur.

The CSR Model uses instead a multiplicative approach as indicated by the formula:

$$U_{\text{site}} = \frac{1}{K} \left[ \prod_{i=1}^{n} (K k_i (i-U_i)+I)-I \right]$$
$$= (Ur)(Up)(Uw)$$

This formula reflects the dependent nature of the factors involved. These formulas have been included to show the mathematical approach to the rating problem. The multiiplicative approach is rescaled from 0 to 100 and used in the CSR Model as:

By using the multiplicative model, sites with a low Ur, Up, or Uw, such as the site previously mentioned, will have a lower rating than would be expected using an additive model, such as the JRB Model.

### Use of the System

All sites found will be put through the Confirmation Study Ranking Flowchart (figure 1). This flowchart will tell the user to go to the CSR Model if further study is required.

The CSR Model is found in figure 2 and table 1. Figure 2 contains the worksheets for the model and is divided into subsections on the rating categories: I is Receptors, II is Pathways, III is Waste Characteristics, and IV is Waste Management and Final Score. Table 1 contains the data needed or information required to fill out the worksheets in figure 2 and is divided into the same subsections.

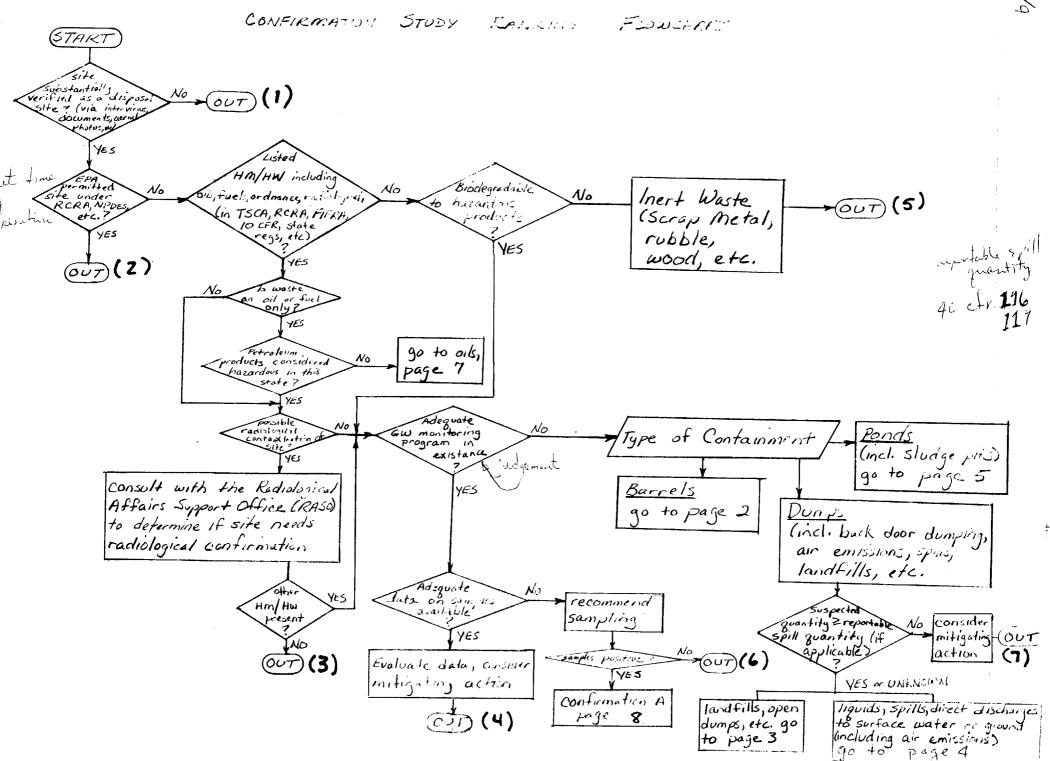
Appendix A illustrates the use of the CSR Model by showing the results of two sites.

The Confirmation Study Ranking System was designed to be used after no or limited sampling. The existing EPA models, including the Mitre and the JRB Models, were designed to rank sites after a NACIP confirmation type investigation. Because the purpose of the System is to rank sites before a full field investigation of sampling is done, this model differs from the models EPA has used. Ranking sites before the expensive Phase II is done will enable the Navy to investigate as soon as possible those sites that pose the greatest potential hazard.

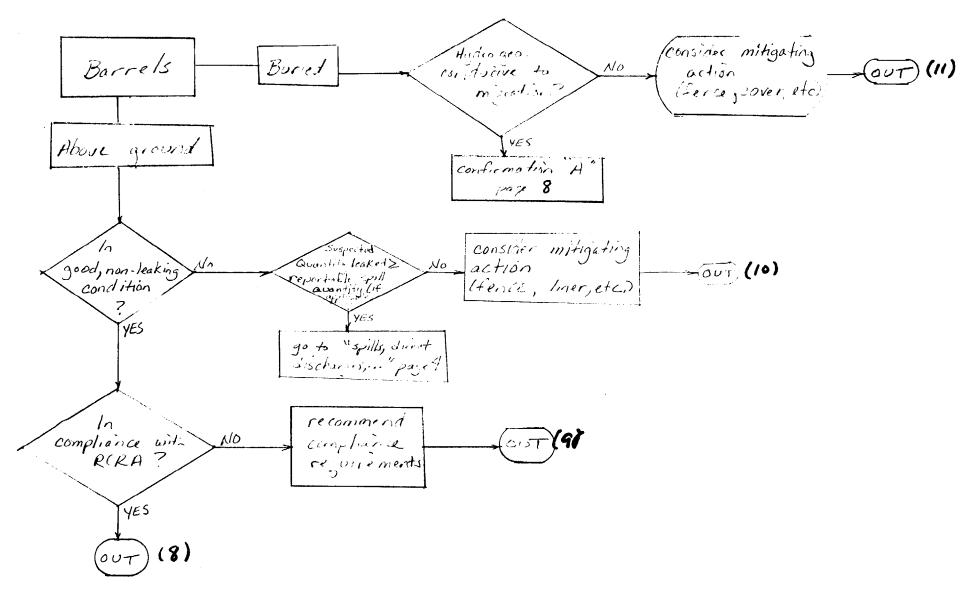
## References

References used in the development of the Confirmation Study Rating Model include:

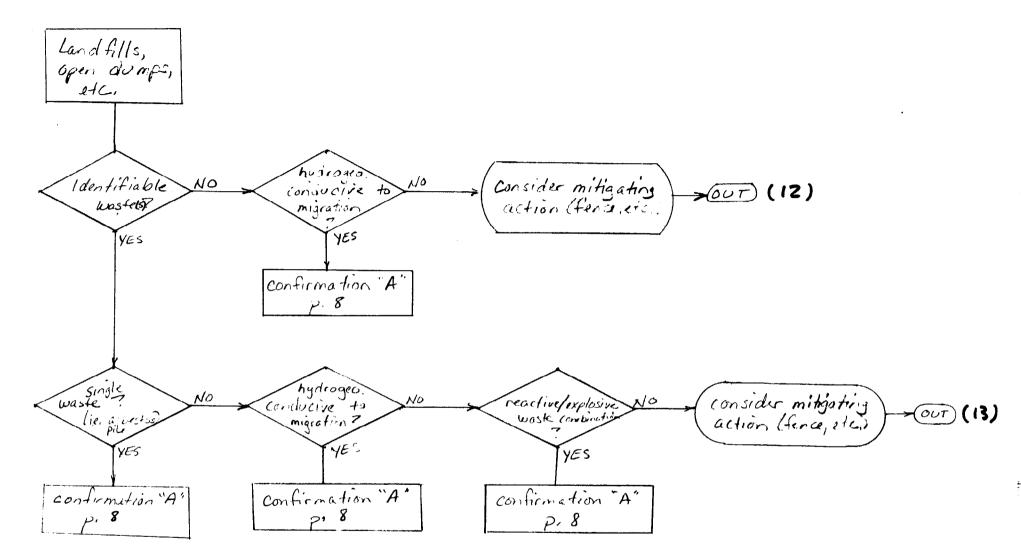
- Lindenberg, B., et al., Air Force Hazardous Risk Assessment Methodology (HARM)
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- JRB Associates, Rating Methodology Model.
- Chang, S., Barrett, K., Hans, S., Platt, A., The Mitre Corporation Site
  Ranking Model for Determining Remedial Action Priorities Among
  Uncontrolled Hazardous Substances Facilities.
- Collins, J. P., and Glysson, E. A., "Multiattribute Utility Theory and Environmental Decisions," Journal of the Environmental Engineering Division, A.S.C.E., vol. 106, No. EE 4, Proc. Paper 15648, Aug. 1980, pp. 815-830.

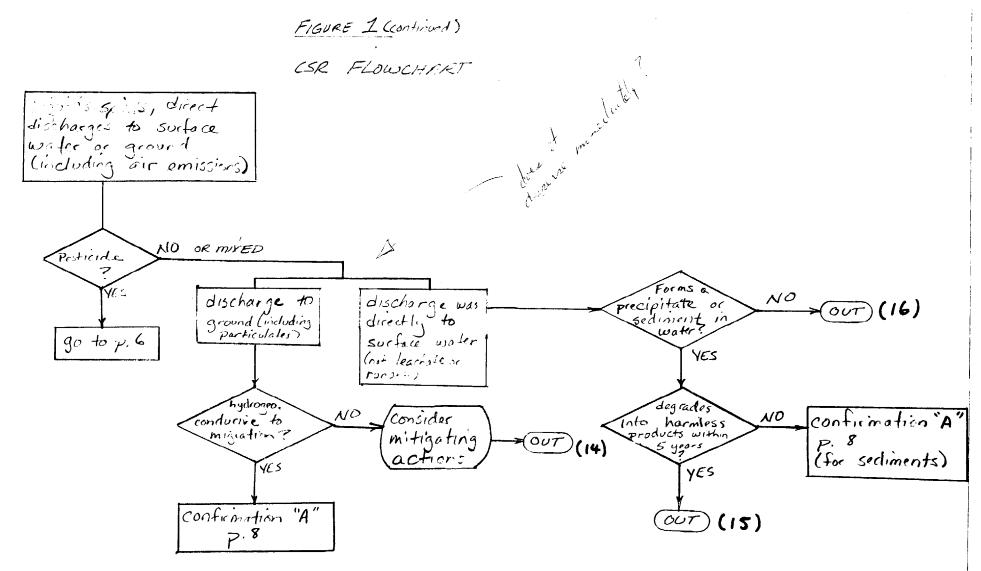


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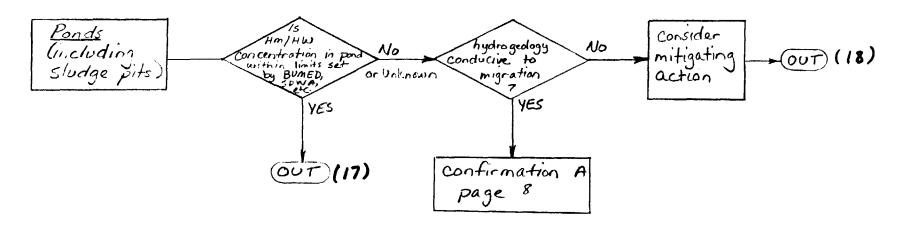


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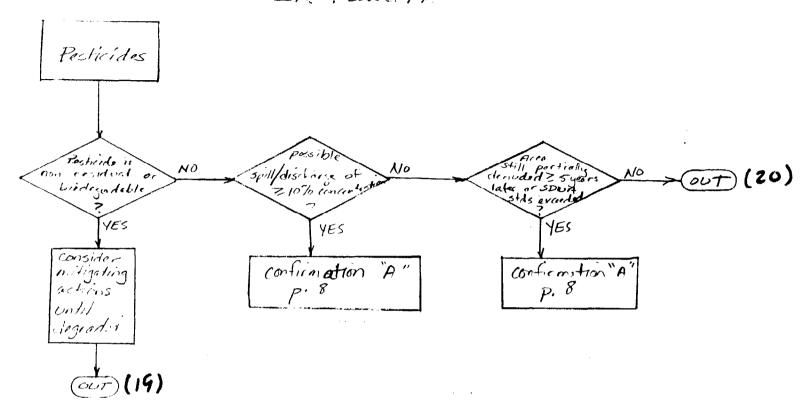


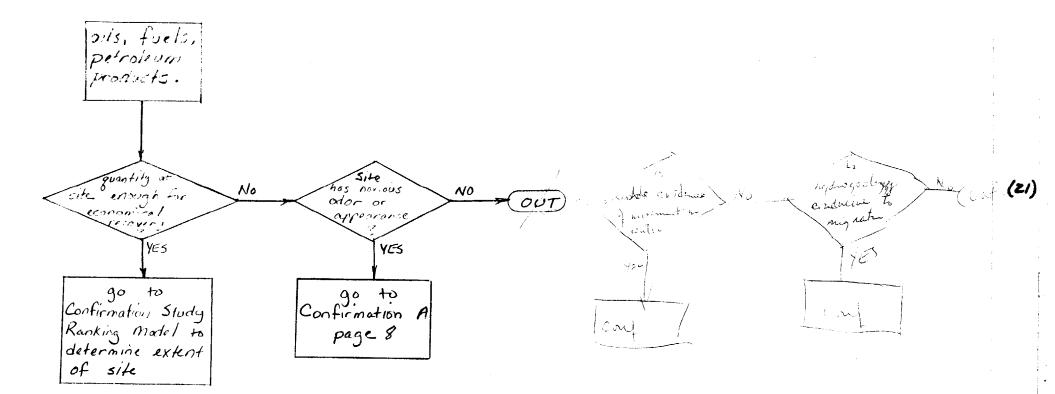


# FIGURE 1 Continued CSR FLOW CHART

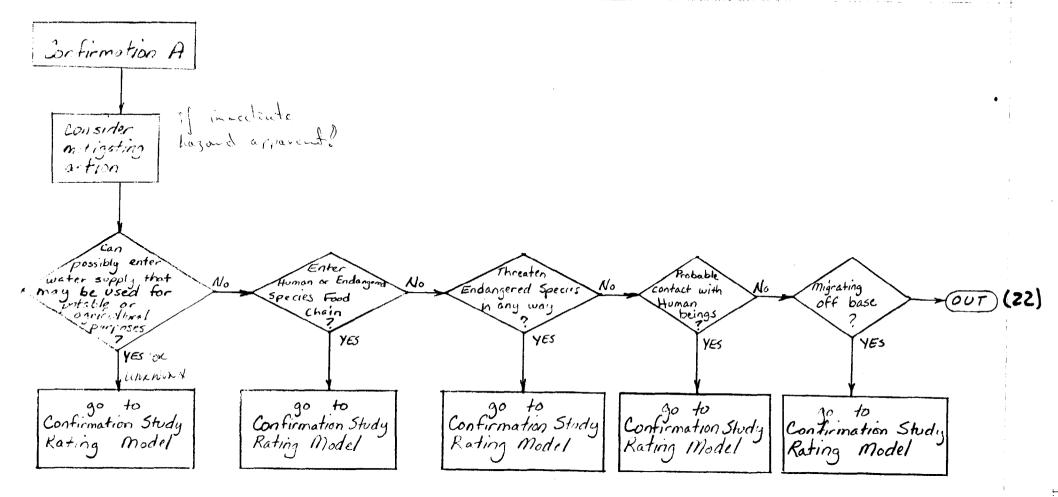


# EIGURE 1 (continued)





# FIGURE 1 (continued) LSR FLOWCHART



# Definitions

Hm/11w = hazardous material/hazardous waste

Gw = ground water

EPA = Environmental Protection Agency

PCRP = Personce Conservation and Recovery Act

NFDES = National Pollutant Discharge Elimination System

TSCA = Toxic Substances Control Act

FIERN = Federal Insecticide, Fungicide and Rodenticide Act

15 CFR: Federal Regulations Covering Radiological Materials

BUMED= Bureau of Medicine

SDWA= Safe Drinking Water Act

Mitigating Action = may include temporary/permanent actions such as fences, barriers, clay caps, changing method of storage (for barrels), etc.

# FIGURE 2

NAM	E OF SITE			
LOC	ATION			
	E OF OPERATION OR OCCURRENCE			
OWN	ER/OPERATOR			·
	MENTS/DESCRIPTION			
	E RATED BY			
	RECEPTORS (see also table 1-1)			
	Rating Factor	Factor Rating (0-3) Multiplier	Factor Score	Maximum Possible Score
Α.	Working population within 1,000 feet of site	4	,	12
<u>B.</u>	Distance to nearest well	10		30
<u>c.</u>	Land use/zoning within 1 mile radius	3		9
D.	Distance to reservation boundary	6		18
Ε.	Critical environments within 1 mile radius of site	10		30
F.	Water quality of nearest surface water body	6		18
G.	Ground water use of the aquifer of concern	9		27
н.	Population served by surface water supply within 3 miles dowstream of site	6		18
1.	Population served by ground-water supply within 3 miles of site	6		18
		Subtotals		180
	Receptors subscore = (factor score subto	tal/maximum score	subtotal	)

# FIGURE 2 (Continued)

		Factor Rating		Factor	Maximum Possible
	Rating Factor	(0-3)	Multiplier	Score	Score
Α.	if there is documented laboratory evinants away from the site in question point for direct evidence. If direct if no evidence exists, proceed to B.	n, <mark>as</mark> sign m	aximum fact	or subsco	ore of 1
			:	Subscore	
В.	Rate the migration potential for 3 potential, flooding, and ground water migration proceed to C.  1. Surface water migration				
	Distance to mearest surface water	1	1 8	1	1 24
	Net precipitation		6		18
	Surface erosion		8		24
	Soil permeability		6		18
	Rainfall intensity		8		24
			Subtotal	s	108
	Subscore = (factor score s	ubtotal/max	imum score	subtotal)	
2.	Flooding		1 1	<u> </u>	
		Subscor	e = (factor	score/3	)
3.	Ground water migration				
	Depth to ground water	1	1 8	1	24
	Net precipitation		6		18
	Soil permeability		8		24
	Subsurface flows		8		24
	Direct access to ground water		8		24
			Subtotal	5	114
	Subscore = (factor score so	ubtotal/max	Imum score	subtotal)	
c.	Highest pathway subscore.				
	Enter the highest subscore value from	n A, B-1, B	-2 or B-3 al	oove.	
			Dathuaus	Subscore	_

# FIGURE 2 (Continued)

# 111. WASTE CHARACTERISTICS (see also table 1-111)

A.

Rating Factor	Factor Rating   _(0-3)_	Multiplier	Weighted Factor
Kating ractor		nuicipiter	ractor
Waste Quantity		1	<b>=</b> Q
Acute Toxicity		8	= AT
Chronic Toxicity		8	= CT
Persistancy		6	= P
Flammability		4	= F
Reactivity		4	= R
Incompatability		5	<u>- 1</u>
Corrosiveness		3	<u> </u>
Solubility		5	= S
Bioaccumulation		6	= B
Physical State		3	= PS
Years site was in use		1	≖ t
Years since site closed		1	= Δt

Weighted Factor = Factor Rating x Multiplier

45.

# 111. WASTE CHARACTERISTICS (continued)

B. Take the weighted factors and multiply together as indicated below, then add the results together.

Score	Maximum Score
AT x Q =	72
CT x Q =	72
C x Q =	27
FxQ =	36
R x Q =	36
S x Q =	45
PxQx∆t =	162
$Bx(\Delta t+t)=$	108
1 x Q =	45
Subtotal= =	603

Add Physical State Weighted Factor (figure 2-111A) and subtotal

Waste Characteristics Subscore = subscore A/maximum subscore A

# General Note:

If data are not available or are known to be incomplete under items I-A through I, II-B-1 or II-B-3, or III-A, then leave blank for calculation of factor score and maximum subscore (i.e. for calculation of the subscore divide the factor score by the maximum subscore minus the unknown item's maximum score).

3.

# IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

A. Receptors Subscore = =

Pathways Subscore = =  $U_r$ 

Waste Characteristics Subscore =  $U_{W}$ 

Enter the above subscores in the equation:

Site Subscore = 
$$U_{site}$$
 = 100  $(U_R)(U_P)(U_W)$ 

B. Apply factor for waste containment from waste management (table 1-IV)

Site Subscore x Waste Management = Final Score
x =

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

# Confirmed Criteria

- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

## Suspected Criteria

- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

Confirmed sites would be above suspected sites in the ranking.

# 1. RECEPTORS CATEGORY

		Rating Scale Levels			_	
1	Rating Factors	0	1	2	3	Multiplier
A. Residential	A. Working Population with 1,000 feet (includes on-base facilities)	0	1 - 25	26 - 100	Greater than 100	4
Population's	B. Distance to nearest water welly active; in again of incern; portuitally.	Greater than 3 miles	1 to 3 miles	3,001 feet to 1 mile	0 to 3,000 feet	10
Marking Population	C. Land Use/Zoning (within 1 mile radius)	Completely remote (zoning not applicable)	Government owned, and idle	Commercial, agricul- tural, industrial, National Register Historic/Landmark sites	Residential	3
Bopotable, or industical, or	D. Distance to installation boundary	Greater than 2 miles	1 to 2 miles	1,001 feet to 1 mile	0 to 1,000 feet	6
agriculturis	E. Critical environments (within 1 mile radius)	Not a critical environment	Natural areas	Pristine natural areas; minor wet-lands (<5 acres); preserved areas; presence of economically important natural resources susceptible to contamination; estuarine shores.	Major habitat of an endangered or threatened species; presence of recharge area; major wetlands (>5 acres).	10
	F. Water quality/use designation of nearest surface water body	Not used or boating only	Agricultural or industrial use	Recreation, swimming, propagation and management of fish and wildlife	Potable water supplies, shellfish propagation and harvesting	6
	G. Ground-water use of the aquifer of concern	Not used, other sources readily available.	Commercial, in- dustrial, or irrigation, very limited other water sources.	Drinking water, municipal water available.	Drinking water, no muni- cipal water available; commercial, industrial, or irrigation, no other water source available.	9
	H. Population served by surface water supplies within 3 miles down- stream of site	0	1 - 50	51 - 1,000	Greater than 1,000	6
	<ol> <li>Population served by the aquifer of concern supplies within 3 miles of site</li> </ol>	0	1 - 50	51 - 1,000	Greater than 1,000	6

7

#### II. PATHWAYS CATEGORY

#### A. Evidence of Contamination

Direct evidence is obtained from laboratory analyses of hazardous contaminants present above natural background levels in surface water, ground water, or air. Evidence should confirm that the source of contamination is the site being evaluated. The samples should have been off site but near the site.

#### B-1 POTENTIAL FOR SURFACE WATER CONTAMINATION

	Rating Scale Levels				
Rating Factor	0	1	2		Multiplier
Distance to nearest surface water (includes drainage ditches and storm sewers)	Greater than 1 mile	2,001 feet to 1 mile	501 feet to 2,000 feet	0 to 500 feet	8
Net precipitation (total precipitation minus evapotranspiration)	Less than -10 in.	-10 to + 5 in.	+5 to +20 in.	Greater than +20 inches	6
Surface erosion	None	Slight	Moderate	Severe	8
Soil permeability	0% to 15% clay (> 10 <sup>-2</sup> cm/sec)	15% to 30% clay 10 <sup>-2</sup> to 10 <sup>-4</sup> cm/sec)	30% to 50T% clay (10 <sup>-4</sup> to 10 <sup>-6</sup> cm/sec)	Greater than 50% clay (∠10 <sup>-6</sup> cm/sec)	6
Rainfall intensity based on 1 year 24-hr rainfall (or mean annual number of thunderstorms)	Less than 1.0 inch (0-5)	1.0-2.0 inches (6-35)	2.1-3.0 inches (36-48)	Greater than 3.0 inches (>50)	8
B-2 POTENTIAL FCR FLOODING					
Floodplain	Beyond 100-year floodplain	in 100-year flood- plain	in 10-year flood- plain	Floods annually	1
B-3 POTENTIAL FOR GROUND-WATE	R CONTAMINATION OF THE AQUIF	FER OF CONCERN			
Depth to ground water	Greater than 500 ft	50 to 500 feet	11 to 50 feet	0 to 10 feet	8
Net precipitation	Less than -10 ln.	-10 to +5 in.	+5 to +20 in.	Greater than +20 inc.	6
Soil permeability	Greater than 50% clay (>10 <sup>-b</sup> cm/sec)	30% to 50% clay (10 <sup>-4</sup> to 10 <sup>-6</sup> cm/sec)	15% to 30% clay (10 <sup>-2</sup> to 10 <sup>-4</sup> cm/sec)	0% to 15% clay (<10 <sup>-2</sup> cm/sec)	8
Subsurface flows	Bottom of site greater than 5 feet above high ground-water level	Bottom of site < 5 feet above high ground-water level Bottom of site occasionally submerged (1-3 times/year)	Bottom of site frequently submerged (>3 times/year)	Bottom of site submerged.	8
Direct access to ground water (through faults, fractures, faulty well casings, sub-sidence fissures, etc.)	No evidence of risk	Low risk	Moderate risk	High risk	8

TABLE 1 (Continued)

#### III. WASTE CHARACTERISTICS

	Rating Scale Level					
Rating Factors	0	1	2	3	Multiplier	
Waste Quantity (40 CFR 117)	if applicable: <pre><rp><reportable pre="" quantity<="" spill=""></reportable></rp></pre>	1-5 times report- able spill quantity	5-20 times reportable spill quantity	>20 times reportable spill quantity	1	
	or <1 lb.	1-100 lbs.	100-1000 lbs.	>1000 lbs.		
Toxicity Acute & Chronic	Sax's Level 0	Sax's Level 1	Sax's Level 2	Sax's Level 3	8	
Persistancy	Easily degraded compounds or harmless materials	Straight chain hydrocarbons	Substitute and other ring compounds	Heavy metal compounds, polycyclic compounds, halogenated hydrocarbons, or degradation products are hazardous	6	
Flammability	NFPA Level 0	NFPA Level 1	NFPA Level 2	NFPA Level 3 & 4	4	
	or Flash point > 200°F	Flash point 140 <sup>o</sup> F-200 <sup>o</sup> F	Flash point $80^{\circ}\text{F}-140^{\circ}\text{F}$	Flash point < 80°F		
Reactivity	NFPA Level 0	NFPA Level 1	NFPA Level 2	NFPA Level 3 & 4	4	
Incompatable wastes present (40 CFR 265 Appendix V)	No	Unk nown	Yes, but adequately separated	Yes, poses a hazard	5	
Corrosiveness	рН 6-8	pH 5-6 or 8-10	pH 3-5 or 10-12	pH 1-3 to 12-14	3	
Solubility at 20°C	insoluable	insoluable in water, soluable in acids or bases	Sparingly or slightly solumble in water	Soluable in water	5	
	<u>or</u> 0-10g/100ml water		10-24g/100ml water	>24g/100ml water		
Bioaccumulation	No			Yes	6	
Physical State	Solid - consolidated or stabilized	Solid - noncon- solidated or non- stabilized	Sludge, slurry, powder or fine material	, Liquid or air emissions	3	
Years site was in use	ob en op	<5	5-10	>10	1	
Years since site was closed or use was discontinued	>50	15-50	2.15	0-5	1	

Note: For sites with more than one hazardous waste the worst case should be used in scoring this section.

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#### TABLE 1 (Continued)

#### IV. WASTE MANAGEMENT AND FINAL SCORE

A. This category adjusts the total risk as determined from the receptors, pathways, and waste characteristics categories for waste management practices and engineering controls designed to reduce this risk.

#### B. WASTE MANAGEMENT PRACTICES FACTOR

The following multipliers are then applied to the total risk points (from A):

Waste Management Practice	Multiplier		
No containment	1.0		
Limited containment	0.80		
Fully contained and in full compliance	0.10		

Guidelines for fully contained:

•	
Landfills:	Surface Impoundments:
Clay cap or other impermeable cover	<ul><li>Liners in good condition</li></ul>
Leachate collection system	<ul> <li>Sound dikes and adequate freeboard</li> </ul>
Liners in good condition	• Adequate manitoring wells
<ul> <li>Adequate monitoring wells</li> </ul>	
Spills:	Fire Protection Training Areas:
Quick spill cleanup action taken	<ul> <li>Concrete surface and berms</li> </ul>
Contaminated soil removed	<ul> <li>0il/water separator for pretreatment of runoff</li> </ul>
<ul> <li>Soil and/or water samples confirm total cleanup of the spill</li> </ul>	<ul> <li>Effluent from oil/water separator to treatment plant</li> </ul>

Limited containment of a site would include only some of the above guidelines for fully contained.

APPENDIX A

NAM	E OF SITE Old PCB transforme	r sto	rage ar	ea	
LOC	ATION NAS Coast City, North	of b	vilding	1554	ZO'x 100
DAT	E OF OPERATION OR OCCURRENCE prior to	1967	' - 197'	7	
	ER/OPERATOR PWC				
COM	MENTS/DESCRIPTION yard is outside, aspha	Uted (bla	ck sludge	on asoha	H) fenced &
	E RATED BY E. Lucker		3		<del></del>
	RECEPTORS (see also table 1-1)				
	Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
Α.	Working population within 1,000 feet of site	2	4	8	12
В.	Distance to nearest well	3	10	30	30
c.	Land use/zoning within 1 mile radius	Z	3	6	9
D.	Distance to reservation boundary	2	6	/2	18
Ε.	Critical environments within 1 mile radius of site	Z	10	20	30
F.	Water quality of nearest surface water body		6	4	18
G.	Ground water use of the aquifer of concern	,	9	9	27
н.	Population served by surface water supply within 3 miles dowstream of site	0	6	0	18
1.		3		10	10

Subtotals 109 180

Receptors subscore = (factor score subtotal/maximum score subtotal) 0.606

11.

II. PATHWAYS	(see	also	table	1-11)

	Factor			Maximum
	Rating		Factor	Possible
Rating Factor	(0-3)	Multiplier	Score	Score
			<del>~~~~~</del>	

A. If there is documented laboratory evidence of migration of hazardous contaminants away from the site in question, assign maximum factor subscore of 1 point for direct evidence. If direct evidence exists then proceed to C. If no evidence exists, proceed to B.

Subscore O

- B. Rate the migration potential for 3 potential pathways: surface water migration, flooding, and ground water migration. Select the highest rating, and proceed to C.
  - 1. Surface water migration

Distance to nearest surface water	1 / 1	8	181	24
Net precipitation	3	6	18	18
Surface erosion	0	8	0	24
Soil permeability	3	6	18	18
Rainfall intensity	3	8	z4	24

Subtotals 68 108

Subscore = (factor score subtotal/maximum score subtotal) 0.630

Subscore = (factor score/3) 6.333

3. Ground water migration

Depth to ground water	131	8	1 24 1	24
Net precipitation	3	6	18	18
Soil permeability	0	8	0	24
Subsurface flows	1	8	8	24
Direct access to ground water	0	8	0	24

Subtotals 50 114

Subscore = (factor score subtotal/maximum score subtotal) 0.439

C. Highest pathway subscore.

Enter the highest subscore value from A, B-1, B-2 or B-3 above.

Pathways Subscore 0.630

### 111. WASTE CHARACTERISTICS (see also table 1-111)

Α.

Rating Factor	Factor Rating (0-3)	   Multiplier	Weighted Factor
Waste Quantity	3	1	3 =
Acute Toxicity	3	8	24 = A
Chronic Toxicity	3	8	24 = c
Persistancy	3	6	18 =
Flammability	0	4	<b>0</b> =
Reactivity	0	4	0 =
Incompatability	0	5	0 =
Corrosiveness	0	3	0 =
Solubility	0	5	0 =
Bioaccumulation	3	6	/8 =
Physical State	2	3	<b>6</b> = P
Years site was in use	3	1	3 =
Years since site closed	3	1	<u> </u>

Weighted Factor = Factor Rating x Multiplier

4..

#### III. WASTE CHARACTERISTICS (continued)

B. Take the weighted factors and multiply together as indicated below, then add the results together.

Score	Maximum Score
$AT \times Q = 24 \times 3 = 72$	72
$ct \times Q = 24 \times 3 = 72$	72
$C \times Q = O \times 3 - O$	27
F x Q = 0 x 3 = 0	36
$R \times Q = O \times 3 = O$	36
$5 \times Q = O \times 3 = O$	45
$P \times Q \times \Delta t = 18 \times 3 \times 3 = 162$	162
$Bx(\Delta t + t) = 18 \times (3 + 3) = 108$	108
1 x Q = 0 x 3 = 0	45
Subtotal = 414	603

Add Physical State Weighted Factor (figure 2-IIIA) and subtotal

Waste Characteristics Subscore = subscore A/maximum subscore A

#### General Note:

If data are not available or are known to be incomplete under items 1-A through 1, 11-B-1 or 11-B-3, or 111-A, then leave blank for calculation of factor score and maximum subscore (i.e. for calculation of the subscore divide the factor score by the maximum subscore minus the unknown item's maximum score).

# Example 1 PCB Storage Yard

#### FIGURE 2 (Continued)

4.

#### IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

Pathways Subscore = 
$$0.630 = U_p$$

Waste Characteristics Subscore = 
$$0.686 = U_W$$

Enter the above subscores in the equation:

Site Subscore = 
$$U_{site}$$
 = 100  $(U_R)(U_P)(U_W)$   
=  $2U_R(Q)$ 

B. Apply factor for waste containment from waste management (table 1-IV)

Site Subscore x Waste Management = Final Score

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

#### Confirmed Criteria

- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

#### Suspected Criteria

- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

Confirmed sites would be above suspected sites in the ranking.

NAME OF SITE Rubble Dump along east shoreline
LOCATION NAS Coast City - east side of base from airfield north
DATE OF OPERATION OR OCCURRENCE early 1900's - present
OWNER/OPERATOR PWC
comments/description rubble dump appears clean, is in water, 12 miles long
SITE RATED BY E Luecker

#### RECEPTORS (see also table 1-1)

	Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
Α.	Working population within 1,000 feet of site	1	4	4	12
В.	Distance to nearest well	1	10	10	30
c.	Land use/zoning within 1 mile radius	2	3	6	9
D.	Distance to reservation boundary	3	6	18	18
Ε.	Critical environments within 1 mile radius of site	3	10	30	30
F.	Water quality of nearest surface water body	3	6	/8	18
G.	Ground water use of the aquifer of concern	1	9	9	27
н.	Population served by surface water supply within 3 miles dowstream of site	0	6	0	18
1.	Population served by ground-water supply within 3 miles of site	3	6	18	18

Subtotals //3 180

Receptors subscore = (factor score subtotal/maximum score subtotal) 0.62

Note: This rubble dump would have dropped out in the flowchart (figure 1) and would not be ranked under normal circumstances. It is included here to show that this model drops out clean sites completely, unlike some previous models.

Pathways Subscore 1.00

#### FIGURE 2 (Continued)

11.	PATHWAYS	(se	e .	also	table	1-11)
		-				•

		Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
Α.	If there is documented laboratory evidentinants away from the site in question, a point for direct evidence. If direct evidence exists, proceed to B.	ssign m	aximum facto	or subsc	ore of 1
			:	Subscore	O_
В.	Rate the migration potential for 3 potention, flooding, and ground water migrati proceed to C.	tial pa on. Se	thways: su lect the hi	rface wa ghest ra	ter migra ting, and
	1. Surface water migration				
	Distance to nearest surface water	1 3	1 8	1 24	24
	Net precipitation	3	1 6	18	18
	Surface erosion	0	<u>8</u>	0	24
	Soil permeability	0	1 6		18
	Rainfall intensity	3	1 8	24	24
2.	Subscore = (factor score subto	tal/max	Subtotal:		108 0.611
		Subscor	e = (factor	score/3	1.00
3.	Ground water migration				
	Depth to ground water	3	1 8	1 24	24
	Net precipitation	3	6	18	18
	Soil permeability	3	8	24	24
	Subsurface flows	Z	8	16	24
	Direct access to ground water	0	8	0	24
	Subscore = (factor score subto	tal/max	Subtotal:	s <u>8</u> 2	-
_				•	
C.	Highest pathway subscore.				

Enter the highest subscore value from A, B-1, B-2 or B-3 above.

### 111. WASTE CHARACTERISTICS (see also table 1-111)

A.

Rating Factor	Factor Rating (0-3)	Multiplier	Weighted Factor
Waste Quantity	3	1	3 = Q
Acute Toxicity	0	8	<b>O</b> = AT
Chronic Toxicity	0	8	O = cT
Persistancy	0	6	0 = P
Flammability	0	4	O = F
Reactivity	0	4	<i>O</i> = R
Incompatability	0	5	O = 1
Corrosiveness	0	3	O = c
Solubility	0	5	<i>O</i> = s
Bioaccumulation	0	6	O = B
Physical State	0	3	O = PS
Years site was in use	3	1	3 = t
Years since site closed	3	1	3 = At

Weighted Factor = Factor Rating x Multiplier

# Example 2 Shoreline Rubble Dum

#### FIGURE 2 (Continued)

#### III. WASTE CHARACTERISTICS (continued)

B. Take the weighted factors and multiply together as indicated below, then add the results together.

Score	Maximum Score
$AT \times Q = O \times 3 = O$	72
$CT \times Q = O \times 3 = O$	72
$C \times Q = O \times 3 = O$	27
FxQ = 0 ×3 = 0	36
$R \times Q = O \times 3 = O$	36
$s \times Q = O \times 3 = O$	45
$PxQx\Delta t = O \times 3 \times 3 = O$	162
$Bx(\Delta t+t) = O * (3+3) = O$	108
1 x Q = 0 x 3 = 0	45
Subtotal=	603

Add Physical State Weighted Factor (figure 2-IIIA) and subtotal

$$\frac{O}{603} + \frac{O}{9} = \frac{O}{612 = \text{maximum subscore A}}$$

Waste Characteristics Subscore = subscore A/maximum subscore A

#### General Note:

If data are not available or are known to be incomplete under items I-A through I, II-B-1 or II-B-3, or III-A, then leave blank for calculation of factor score and maximum subscore (i.e. for calculation of the subscore divide the factor score by the maximum subscore minus the unknown item's maximum score).

#### IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

A. Receptors Subscore = 
$$0.628 = U_R$$

Pathways Subscore =  $1.00 = U_P$ 

Waste Characteristics Subscore =  $0 = U_R$ 

Enter the above subscores in the equation:

Site Subscore = 
$$U_{site}$$
 = 100  $(U_R)(U_P)(U_W)$   
=  $O$ 

B. Apply factor for waste containment from waste management (table 1-IV)

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

#### Confirmed Criteria

- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

#### Suspected Criteria

- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

Confirmed sites would be above suspected sites in the ranking.

#### IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

A. Receptors Subscore = 
$$0.628 = U_R$$

Pathways Subscore =  $1.00 = U_P$ 

Waste Characteristics Subscore =  $0 = U_M$ 

Enter the above subscores in the equation:

Site Subscore = 
$$U_{site}$$
 = 100  $(U_R)(U_P)(U_W)$   
=  $O$ 

B. Apply factor for waste containment from waste management (table 1-IV)

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

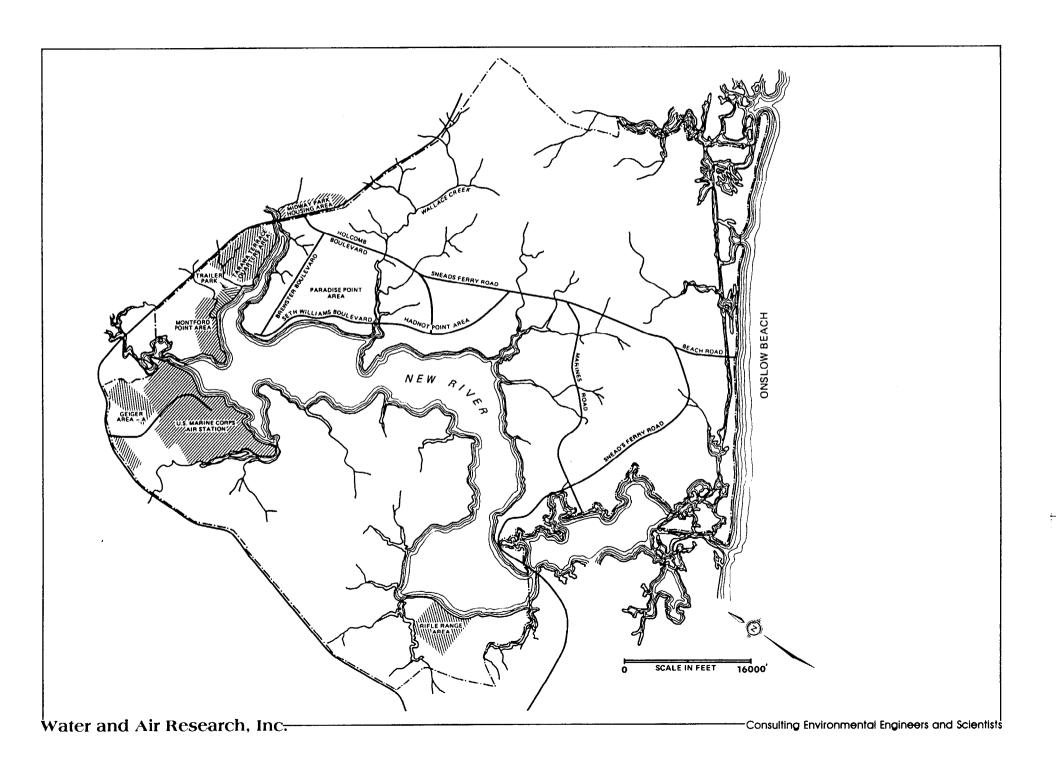
#### Confirmed Criteria

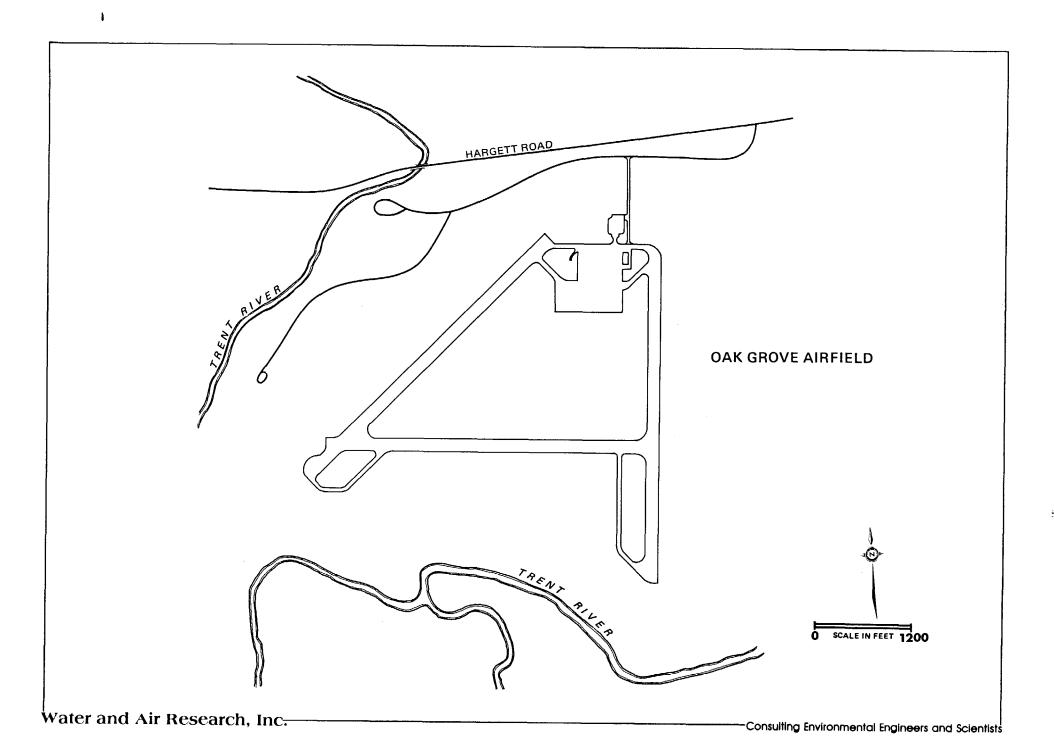
- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

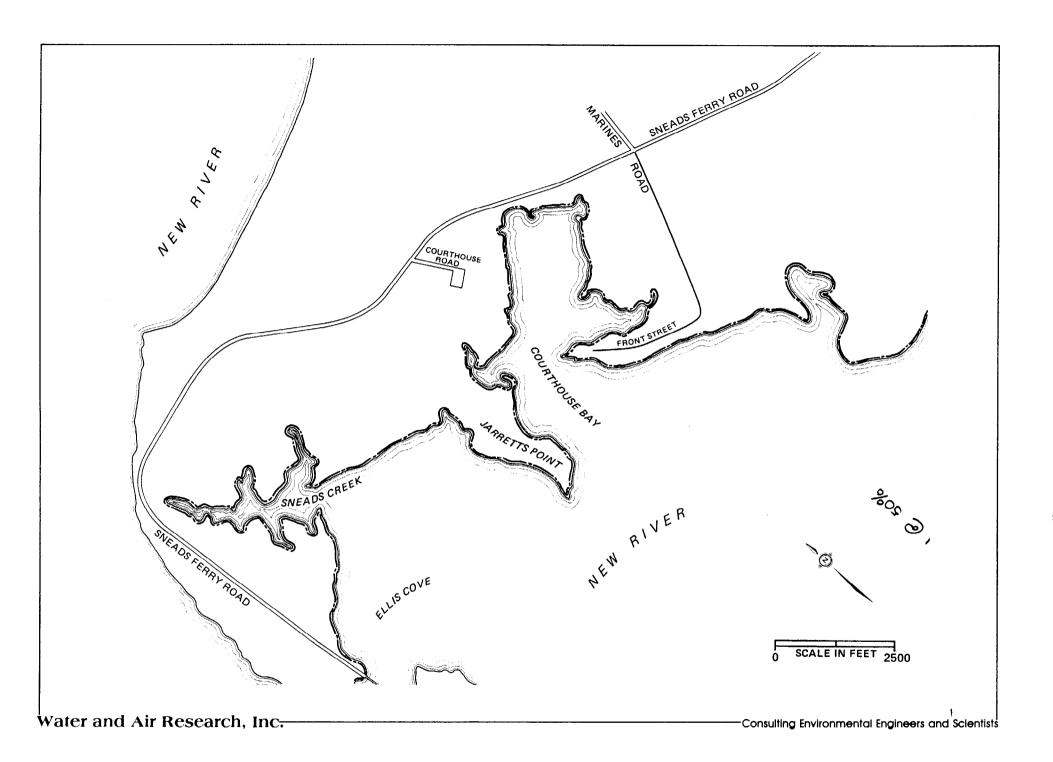
#### Suspected Criteria

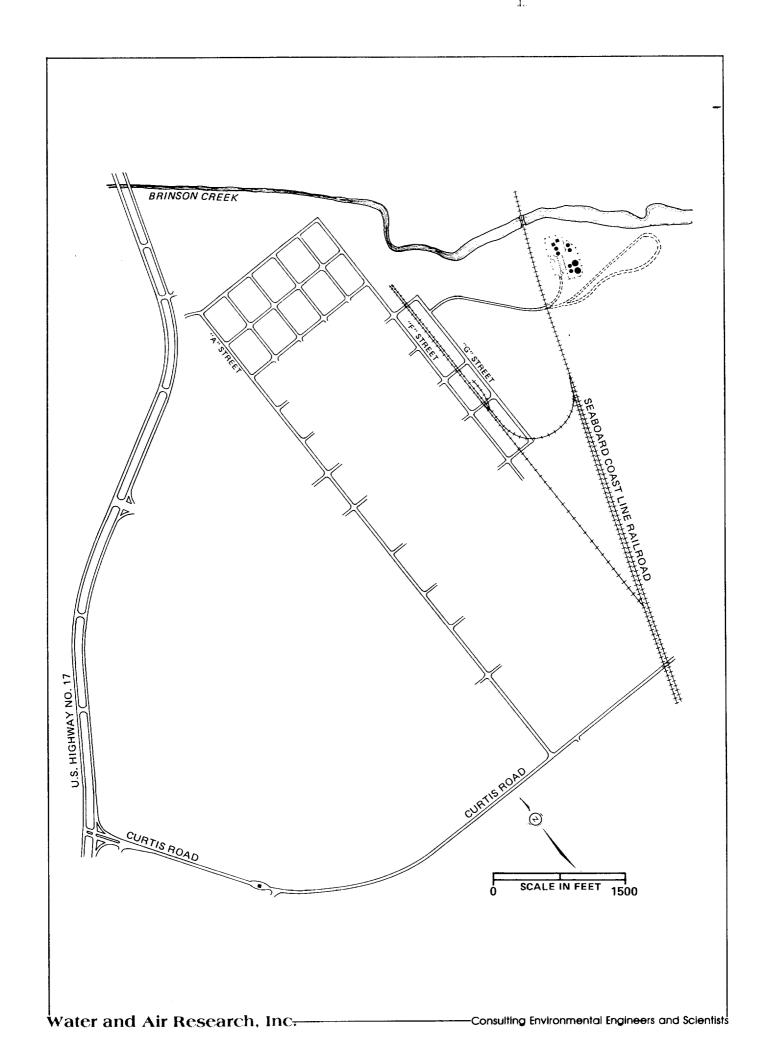
- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

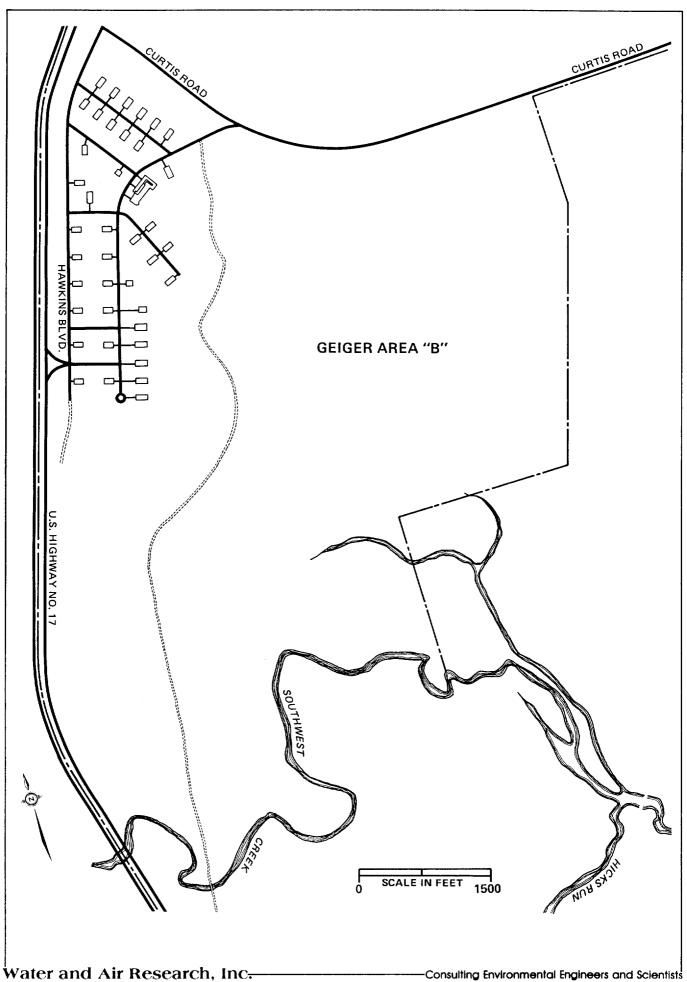
Confirmed sites would be above suspected sites in the ranking.











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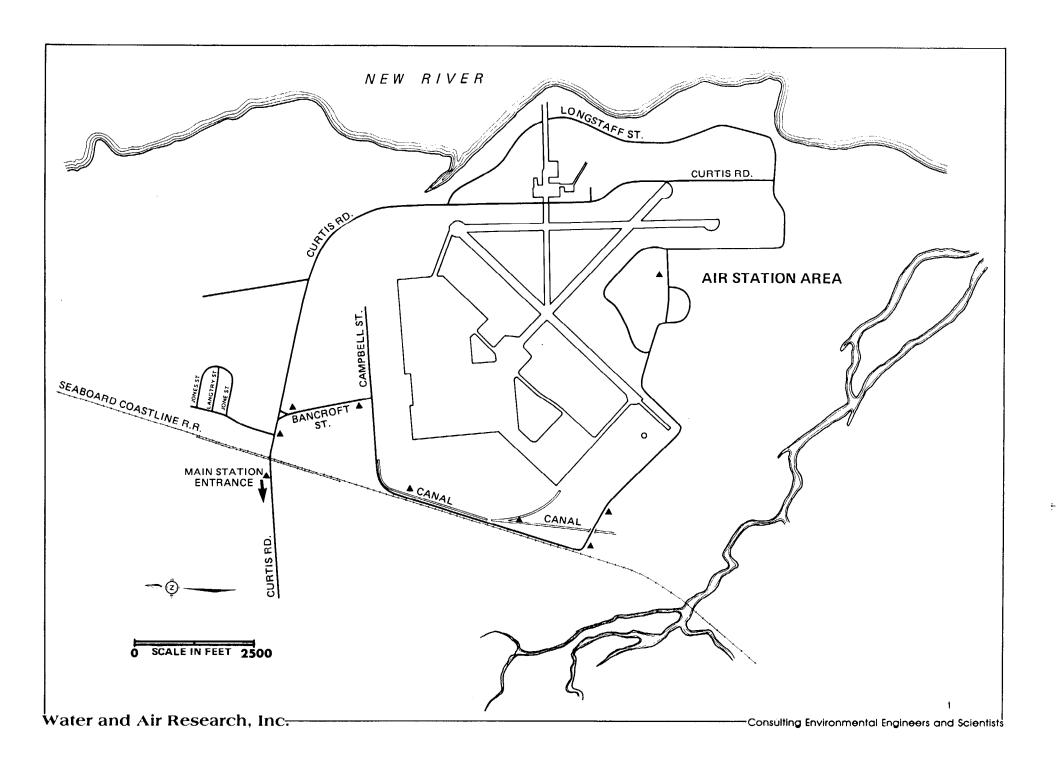


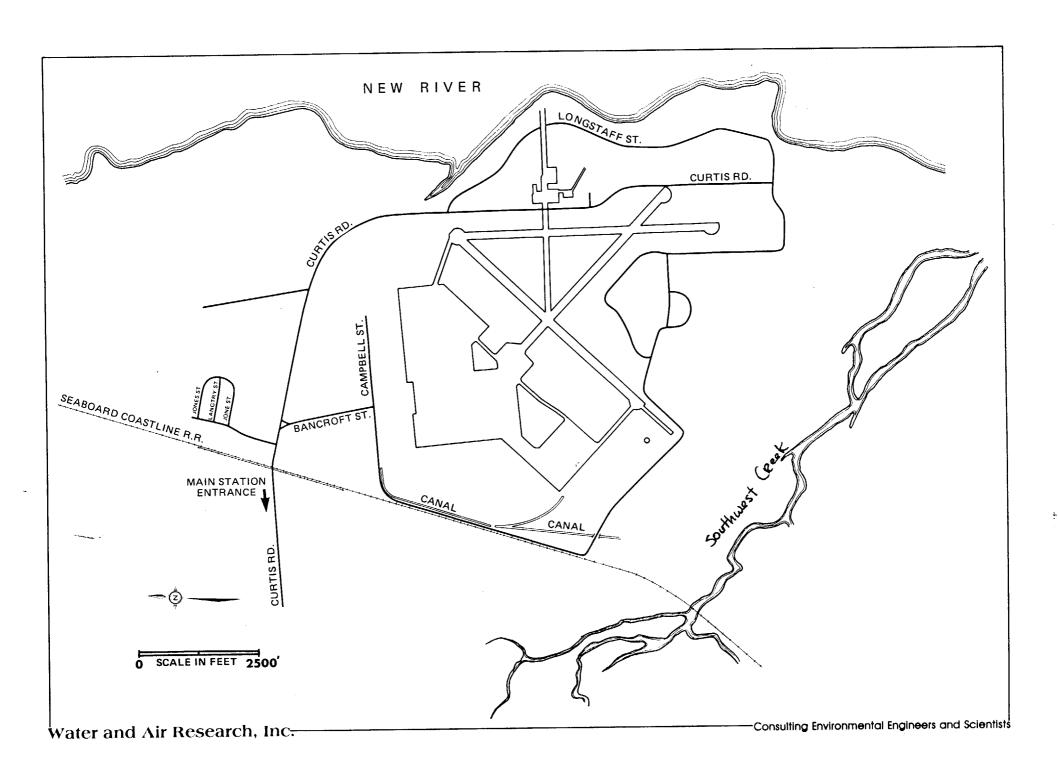
Table 1. Comments on Sensitive Species Regarding Occurrence Within Study Area (Camp Lejeune\*)

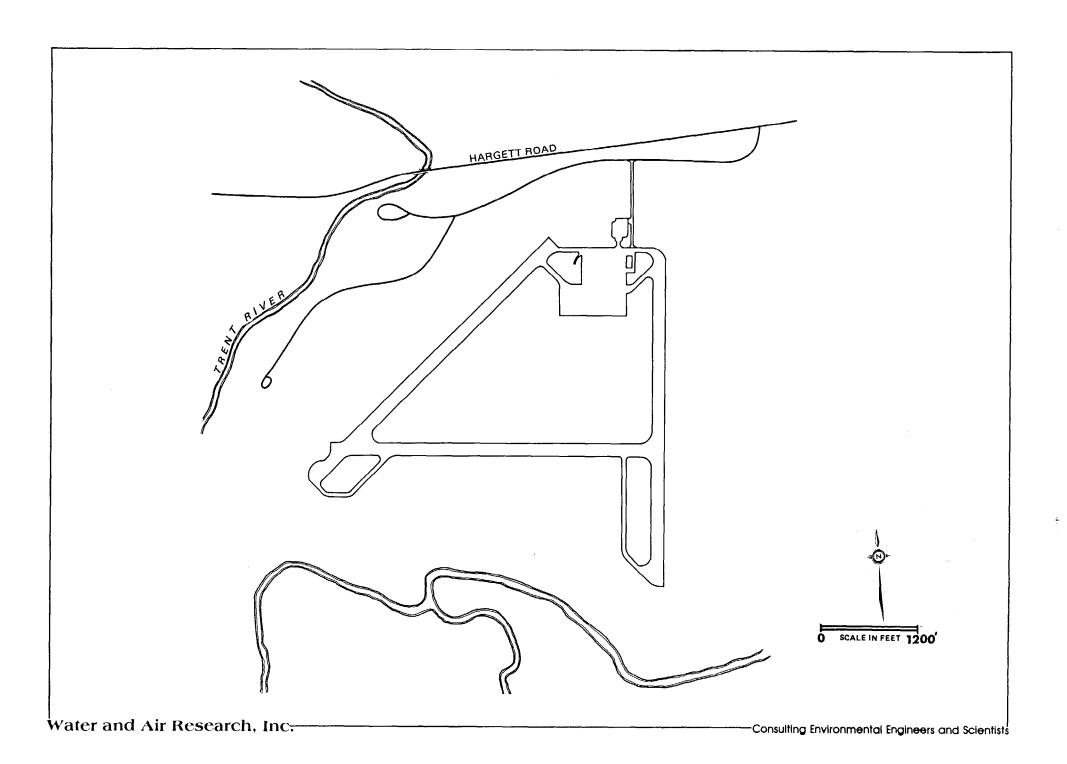
Species	Comment
MAMMALS	
Eastern cougar	Possible transient but not seen since
Florida manatee	Northern extreme of summer range.
Gray bat	Not in area.
Indiana bat	Not in area.
Atlantic right whale	Possible migrant offshore.
Finback whale	Possible migrant offshore.
Humpback whale	Possible migrant offshore.
Sei whale	Possible migrant offshore.
BIRDS	
American peregrine falcon	Possible but not common.
Arctic peregrine falcon	Possible.
Bald eagle	Not reported or seen.
Bachman's warbler	Possible migrant but not observed.
Kirtland's warbler	Possible migrant but not reported.
Eastern brown pelican	Reported in area.
Red-cockaded woodpecker	Frequent in area with known nesting areas
FISH	
Shortnose sturgeon	Not observed recently.
Spotfin chub	Not in area.
REPTILES	
American alligator	Not probable.
Green turtle	Known nesting sites along coast.
Hawksbill turtle	Possible migrant offshore.
Kemp's Kidley turtle	Possible migrant offshore.
Leatherback turtle	Possible migrant offshore.
Loggerhead turtle	Known nesting sites along coast.
MOLLUSKS	
Noonday land snail	Not in area.
PLANTS	
Sagittaria fasciculata	Not in area.
Hudsonia montana	Not in area.

<sup>\*</sup> Peterson, C., 1982. Cooper, J.E., ed., 1977. Parker, W. and L. Dixon, 1980.

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- Cooper, J.E., ed. 1977. Endangered and Threatened Plants and Animals of North Carolina. Proceedings of the Symposium on Endangered and Threatened Biota of North Carolina. Meredith College, Raleigh, N.C., November 7-8, 1975. North Carolina State Museum of Natural History, Raleigh, N.C. 433 pp.
- Parker, W. and L. Dixon. 1980. Endangered and Threatened Wildlife of Kentucky, North Carolina, South Carolina, and Tennessee. North Carolina Agricultural Extension Service, Raleigh, N.C. 122 pp.
- Peterson, C. 1982. Personal Communication. Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune, N.C.





# Camp Jageune Background Sodieni

a. House et l'amp de fine en l'écotion en the 200 at al place of Parker Southern and occupies also miles? acros in Ousland Canady. The bases of yours 1940. Recorder, to Congression, who was party the procurement team, the land was in private ownership and was prechased in about a years time (personal Comme 1982) Comp beginne complex compared of Marine Coga Bares MCAS-Now Energy Naval Regions - Medical Contex. Towart comment. and Marine Div, the Torce Trages, The Hasine Force + Marine Fin Enough 26+29. The lase is bused into made south segments by the New River. This restoring system formes a large with y (Onslow Bay) prior to our ptyris, with the Athertic. The Base has over Unites graha dire along the Allater Ocean. U.S. 17 + NCState 24 farm the writer I no Theastern trous daties. The city of prodesonviale is the mathema broundary (Legense Motor (in -1978)

Marine Air Status on Newside of Comp Legione. Size is approved 2672 occes. Set up as a separate command in 1951.

Nowing Kareau war used as a helicopter training boxes + lovale + gotraining for get fighter. Presently werd for helicopter training.

Farmenly could Peterfiel of Point, Nour changed in 1968 to MCAS-Now Rise.

under administrative control of MCAS-New River. The outlying field is no longer active and is under caretaken status. The project has some carrysing forthers. Reneational we must be arranged

# C. J. Book ground

ground troop exercises + occasional helicipa landings.

Oak Grove is bounded by the Trent Kine on two sides. It is in the eastern part of he country, Has 976 Ocres. Alway World Wan It under jurisoliction of Cherry Point. At end of WWII all structures were destroyed except runway complex. In 1968- An States i at New River took over.

# Graphics Camp Lepone Report

1. Base Map outrie Comp

2. Rose map - Hadut Point

3. Base Mayor Ach Station

4. bose Mays - Date Hove

5. Map showing drawing a - odapted from master place

to Map showing topography -

7.7 Kap & stating

8. Soils Map - for sites selo to le for confirmation

9. Map showing habitets on base- adaptation from master plan ie locations & Rodakadad W.P., Tuntle system

10. Maps of other areas - Toutation: A. Geiger

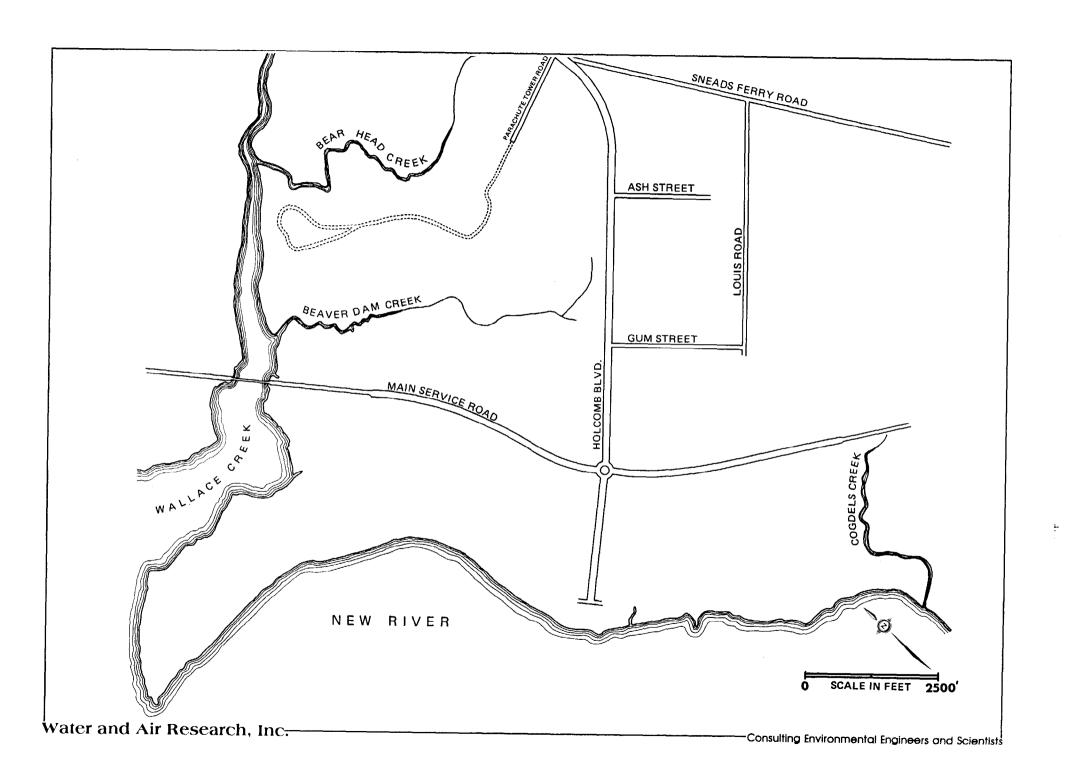
B. Rifle Rouge

C. Courtrious lang

D.

11. Maps of individual sites.

13. Map gassa gos haye.



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······································			
Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
	4	,	12
	10		30
	3		9
	6		18
	10		30
	6		18
	9		27
	6		18
	6		18
	Subtotals		180
otal/maxi	num score :	subtotal)	
	Factor Rating (0-3)	Factor Rating (0-3) Multiplier  4 10 3 6 40 6 9 6 Subtotals	Factor Rating (0-3) Multiplier Score  4  10  3  6  10  6

	Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
Α.	If there is documented laboratory evilonants away from the site in question point for direct evidence. If direct if no evidence exists, proceed to B.	, assign m	igration of eximum fact	hazardo or subsc	us contam
				Subscore	
В.	Rate the migration potential for 3 potential, flooding, and ground water migrary proceed to C.	etential pa ration. Se	thways: su lect the hi	rface wa ghest ra	ter migra ting, and
	1. Surface water migration	•			
	Distance to nearest surface water		1 8	1	24
	Net precipitation		6		18
•	Surface erosion		8		24
	Soil permeability Rainfall intensity		8	<del> </del>	18
	Mathrati Theonorey			<u> </u>	1 27
			Subtotal	s	108
	Subscore = (factor score su	btotal/max	Imum score	subtotai	)
2.	Flooding	1	1 1	<u> </u>	1
		Subscor	e = (factor	score/3	)
3.	Ground water migration				
	Depth to ground water	1	1 8	1	1 24
	Net precipitation		6	1	18
	Soil permeability		8		24
	Subsurface flows		8	<b></b>	24
	Direct access to ground water		8	<u>!</u>	24
			Subtotal	s	114
	Subscore = (factor score su	btotal/max	imum score	subtotal	)
c.	Highest pathway subscore.				
	Enter the highest subscore value from	A, B-1, B	-2 or B-3 a	bove.	
1			Pathways	Subscor	e

## 111. WASTE CHARACTERISTICS (see also table 1-111)

A.

.

Rating Factor	Factor Rating (0-3)	Multiplier	Weighted Factor
Waste Quantity		1	= 0
Acute Toxicity		8	— AT
Chronic Toxicity		8	= CT
Persistancy		6	= P
Flammability		4	= F
Reactivity		4	= R
Incompatability		5	= (
Corrosiveness		3	<u> </u>
Solubility		5	= S
Bioaccumulation		6	= B
Physical State		3	= PS
Years site was in use		1	= t
Years since site closed		1	<u>- Δ</u> t

Weighted Factor = Factor Rating x Multiplier

#### 111. WASTE CHARACTERISTICS (continued)

B. Take the weighted factors and multiply together as indicated below, then add the results together.

Score	Maximum Score
AT x Q =	72
CT x Q =	72
C x Q =	27
FxQ =	36
$R \times Q =$	36
S x Q =	45
PxQxΔt =	162
$B \times (\Delta t + t) =$	108
1 x Q =	45
Subtotal= =	603

Add Physical State Weighted Factor (figure 2-111A) and subtotal

Waste Characteristics Subscore = subscore A/maximum subscore A

#### General Note:

If data are not available or are known to be incomplete under items 1-A through 1, 11-B-1 or 11-B-3, or 111-A, then leave blank for calculation of factor score and maximum subscore (i.e. for calculation of the subscore divide the factor score by the maximum subscore minus the unknown item's maximum score).

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UR

#### IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

A. Receptors Subscore = =

Pathways Subscore = U<sub>p</sub>

Waste Characteristics Subscore = U

Enter the above subscores in the equation:

Site Subscore = 
$$U_{site}$$
 = 100  $(U_R)(U_P)(U_W)$ 

B. Apply factor for waste containment from waste management (table 1-IV)

Site	Subscore	×	Waste	Management	=	Final	Score
		x			=		

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

#### Confirmed Criteria

- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

#### Suspected Criteria

- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

Confirmed sites would be above suspected sites in the ranking.

e is thick	a Pila		1 1	3 B
Industry and EPA	•	Hazardous waste		Hazard code
hazardous waste No	*	Sac V	. 4	
econdary Lead:	Tarishing against the second	V 2 - 15		
K069	Emission control dust/sludge from seco	ondary lead smelting		<u>(i)</u> .
K100	Waste leaching solution from acid leach	ning of emission control dust/studge from secondary lead smelting		U),
terinary Pharmaceuticals: 🚟 🗄	and			<i>(</i> T)
K084	Wastewater treatment sludges generate	ed during the production of veterinary pharmaceuticals from arsenic or or	gano-arsenic compounds	<u>(i)</u>
K101	Distillation tar residues from the distilla	ation of aniline-based compounds in the production of veterinary phar	maceuticals from arsenic or	(1)
5.79.5	C. organo, areanic compounds.		And the second s	
K102	Residue from the use of activated carb	on for decolorization in the production of veterinary phermaceuticals from	m arsenic of organo-arsenic	(1)
£.	compounds.		1	
k Formulation:				·
K086	Solvent washes and sludges, caustic value formulation of ink from pigments, drie	washes and studges, or water washes and studges from cleaning tubs ers, soaps, and stabilizers containing chromium and lead.	ent; ni bezu memquipe bna	44 <b>(9</b> ),
okina:	1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894 - 1894	* e ,		_
rueu	Ammonia still lime sludge from coking of	operations		<u>U</u>
K067	Decanter tank tar sluge from coking op-	erations	••••••••••••••	(1)

[261.32 amended by 45 FR 47833, July 16, 1980; 45 FR 72039, October 30, 1980; revised by 45 FR 74980, November 12, 1980; 46 FR 4617, January 16, 1981; 46 FR 27476, May 20, 1981]

§261.33 Discarded commercial chemical products, off-specification species, container residues, and residues thereof.

[261.33 revised by 45 FR 78541, November 25, 1980]

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded:

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraphs (e) or (f) of this section.
- (b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraphs (e) or (f) of this section.
- (c) Any container or inner liner removed from a container that has been used to hold any commercial chemical product or manufacturing chemical intermediate having the generic names listed in paragraph (e) of this section, or any container or inner liner removed

from a container that has been used to hold any off-specification chemical product and manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) of this section, unless:

- (1) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate; or
- (2) The container or inner liner has been cleansed by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
- (3) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed. [The second 261.33(c) was revised by 45 FR 78541, November 25, 1980; 46 FR 27476, May 20, 1981]

(d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product and manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.

[Comment: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which

Substance

Hazardous Waste No.

the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in paragraphs (e) or (f). Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in paragraphs (e) or (f), such waste will be listed in either §§ 261.31 or 261.32 or will be identified as a hazardous waste by the characteristics set forth in Subpart C of this Part.]
[261.33(d) amended by 46 FR 27476, May 20, 1981]

Hazardous Waste No.

Substance

(e) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H) and are subject to be the small quantity exclusion defined in § 261.5(e).

[Comment: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.] These wastes and their corresponding EPA Hazardous Waste Numbers are:

[261.33(e) amended by 46 FR 27476, May 20, 1981]

Hazardous waste No.	Substance
P023	Acetaldehyde, chloro-
P002	Acetamide, N-(aminothioxomethyl)-
P057	Acetamide, 2-fluoro-
P058	Acetic acid, fluoro-, sodium salt
P066	Acetimidic acid, N-[(methylcar- bamoyl)oxy]thio-, methyl ester
P001	
P002	
P003	
P070	Aldicarb
P004	., Aldrin
P005	Allvi alcohol
P006	Aluminum phosphide
P007	
P008	
P009	Ammonium picrate (R)
P119	Ammonium vanadate
P010	Arşenic acid
P012	Arsenic (III) oxide
P011	Arsenic (V) oxide
P011	Arsenic pentoxide
P012	Arsenic trioxide
P038	Arsine, diethyl-
P054	Aziridine
P013	Barium cyanide
P024	Benzenamine, 4-chloro-
P077	Benzenamine, 4-nitro-
P028	Benzene, (chloromethyl)-
P042	1,2-Benzenediol, 4-[1-hydroxy-2-(methyl- amino)ethyl)-
P014	Benzenethiol
P028	Benzyl chloride
	Beryllium dust

D040	<b>-</b>		
P017	Bis(chloromethyl) ether		2-Methyllactonitrile
017	Oromoacetone	P071	Methyl parathion
018	Brucine		alpha-Naphthytthioures
021	Calcium cyanide	P073	Nickel carbonyl
<sup>2</sup> 123	Camphene, octachloro-	P074	Nickel cyanide
P103	Carbamimidoselenoic acid	P074	
022	Carbon bisulfide		Nickel tetracarbonyl
	Carbon disulfide		Nicotine and salts
	Carbonyl chloride	P076	
033			
		P077	
	Chloroacetaldehyde	P078	
024		P076	
	1-(o-Chlorophenyl)thiourea		Nitrogen(IV) oxide
	3-Chloropropionitrile :	P081	
2029	Copper cyanides	P062	N-Nitrosodimethylamine
2030	Cyanides (soluble cyanide salts), not else-	P084	N-Nitrosomethylvinylamine
	where specified		5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7
2031			hexachloro, cyclic sulfite
	Cyanogen chloride	P085	Octamethylpyrophosphoramide
	Dichlorophenylarsine	P087	
			Osmium tetroxide
2037			
2038		PU00	7-Oxabicyclo[2.2.1]heptane-2,3-
2039	O,O-Diethyl S-[2-(ethylthio)ethyl] phos-		dicarboxylic acid
	phorodithioate	P089	
2041	Diethyl-p-nitrophenyl phosphate		Phenol, 2-cyclohexyl-4,6-dinitro-
	O,O-Diethyl O-pyrazinyl phosphorothioate		Phenol, 2,4-dinitro-
	Diisopropyl fluorophosphate	P047	Phenol, 2,4-dinitro-6-methyl-
2044	Dimethoate	P020	Phenol, 2,4-dinitro-6-(1-methylpropyl)-
			Phenol, 2,4,6-trinitro-, ammonium salt (R
V73	3,3-Dimethyl-1-(methylthio)-2-butanone, O-	P036	Phenyl dichloroarsine
3434	[(methylamino)carbonyl] oxime	P002	Phenylmercuric acetate
2071	O,O-Dimethyl O-p-nitrophenyl phosphoro-		
	thioate		N-Phenylthiourea
	Dimethylnitrosamine	P094	
P046	alpha, alpha-Dimethylphenethylamine	P095	
P047	4.6-Dinitro-o-cresol and salts	P096	
	4,6-Dinitro-o-cyclohexylphenol	P041	Phosphoric acid, diethyl p-nitropheny
Pü48	2,4-Dinitrophenol		ester
P020		P044	Phosphorodithioic acid, O,O-dimethyl S
	Diphosphoramide, octamethyl-	,	[2-(methylamino)-2-oxoethyl]ester
P039	Disulfaton	P043	Phosphorofluoric acid, bis(1-methylethyl)
		r043	ester
P049		B004	
	Dithiopyrophosphoric acid, tetraethyl ester	PU94	Phosphorothioic acid, O,O-diethyl S
P050			(ethylthio)methyl ester
<sup>2</sup> 088 880		P089	Phosphorothicci acid, O,O-diethyl O-(p-ni-
P051			trophenyl) ester
P042	Epinephrine	P040	Phosphorothioic acid, O,O-diethyl O- pyra-
P046	Ethanamine, 1,1-dimethyl-2-phenyl-		zinyl ester
P084	Ethenamine, N-methyl-N-nitroso-	P097	Phosphorothioic acid, O,O-dimethyl O-(p.
P101		F 037	
P054		5	((dimethylamino)-sultonyl)phenyl]ester
2097		P110	Plumbane, tetraethyl-
P05 <b>6</b>			Potassium cyanide
P057			Potassium silver cyanide
	Fluoroacetic acid, sodium salt	P070	Propanal, 2-methyl-2-(methylthio)-, O-
			[(methylamino)carbonyl]oxime
	Fulminic acid, mercury(II) salt (R,T)	P101	Pronanenitrile
P059		D027	Propanenitrile, 3-chloro-
2051	1,2,3,4,10,10-Hexachioro-6,7-epoxy-		
	1,4,4a,5,6,7,8,8a-octahydro-endo,endo-		Propanenitrile, 2-hydroxy-2-methyl-
	1,4:5,8-dimethanonaphthalene		1,2,3-Propanetriol, trinitrate- (R)
2037	1,2,3,4,10,10-Hexachloro-6,7-epoxy-	P017	2-Propanone, 1-bromo-
007	1,4,4a,5,6,7,8,8a-octahydro-endo,exo-	P102	Propargyl alcohol
		P003	
2000	1,4:5,8-demethanonaphthalene	P005	
~vou	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-	P067	
	hexahydro-1,4:5,8-endo, endo-dimeth-		
	anonaphthalene	P102	
2004	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-	P008	
	hexahydro-1,4:5,8-endo,exo-	P075	
	dimethanonaphthalene		and salts
2060	Hexachlorohexahydro-exo,exo-	P111	Pyrophosphoric acid, tetraethyl ester
		P103	Selenourea
onen	dimethanonaphthalene	P104	
	Hexaethyl tetraphosphate		
	Hydrazinecarbothioamide	P105	
	Hydrazine, methyl-	P106	
2063		P107	
2063	Hydrogen cyanide		Strychnidin-10-one, and salts
096	Hydrogen phosphide	P018	Strychnidin-10-one, 2,3-dimethoxy-
2064	Isocyanic acid, methyl ester		Strychnine and salts
· W/	3(2H)-Isoxazolone, 5-(aminomethyr)-		Sulfuric acid, thallium(I) salt
-045	Mercury, (acetato-O)phenyl-	P109	Tetraethyldithiopyrophosphate
	Mercury fulminate (R,T)	P110	Tetraethyl lead
2016	Methane, oxybis(chloro-	P111	Tetraethylpyrophosphate
	Methane, tetranitre- (R)	P112	Tetranitromethane (R)
	Methanethiol, trichloro-	P062	Tetraphosphoric acid, hexaethyl ester
	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-hep-	D112	Thelie suids
P118		P113	THAIRC OXIGE
P118		P113	Thallium(III) oxide
P118 P059	tachioro-3a,4,7,7a-tetrahydro-		
P118 P059	Methomyl	P114	Thallium(I) selenite
P118 P059 P066	Methornyl 2-Methylaziridine	P114	Thallium(I) selenite
P118 P059	Methornyl 2-Methylaziridine	P114 P115	Thallium(I) selenite Thallium(I) sulfate
2118 2059 2066 2067	Methornyl 2-Methylaziridine	P115 P045	Thallium(I) selenite Thallium(I) sulfate

4.

Hazardous Substance	Hazardous Substance	Hazardous Substance waste No.
		1900
P014 Thiophenol	U049 Benzenamine, 4-chloro-2-methyl-	U033 Carbon oxyfluoride (R,T)
P116	U093	U033 Carbonyl fluoride (R,T)
2072Thiourea, 1-naphthalenyl-	U222 Benzenamine, 2-methyl-, hydrochloride	U034 Chioral
2093 Thiourea, phenyl-	U181 Benzenamine, 2-methyl-5-nitro	U035Chlorambucil
2123 Toxaphene	U019 Benzene (I,T)	U036 Chlordane, technical
7118Trichloromethanethiol	U038 Benzeneacetic acid, 4-chloro-alpha-(4-	U026 Chlomephazine
Vanedic acid, ammonium sait	chlorophenyl)-alpha-hydroxy, ethyl ester	U037 Chlorobenzene
7120 Vanadium pentoxide	U030 Benzene, 1-bromo-4-phenoxy- U037 Benzene, chloro-	U0394-Chloro-m-cresof
P120 Vanadium(V) oxide	U190 1,2-Benzenedicarboxylic acid anhydride	U041
P121 Zino cyanide	U028	U044Chloroform
P122Zinc phosphide (R,T)	hexyl)] ester	U048 Chloromethyl methyl ether
	U089 1,2-Benzenedicerboxylic acid, dibutyl ester	U047beta-Chloronaphthalene
(f) The commercial chemical products.	U088 1,2-Benzenedicarboxylic acid, diethyl ester	U048 e-Chlorophenol U0494-Chloro-o-tofuldine, hydrochloride
	U1021,2-Benzenedicarboxyfic acid, dimethyl	
manufacturing chemical intermediates,	ester U107	U032 Chromic acid, calcium salt U050 Chrysene
or off-specification commercial chemical	U107 1,2-Benzenedicarboxyfic acid, di-n-octyl	U051
products referred to in paragraphs (a)	U070	U052 Cresols
through (d) of this section, are identified	U071Benzene, 1,3-dichlora-	U052 Cresylic acid
	U072 Benzene, 1,4-dichloro-	U053 Crotonaldehyde
as toxic wastes (T) unless otherwise	U017Benzene, (dichloromethyl)-	U055
designated and are subject to the small	U223 Benzene, 1,3-dileacyanatomethyl- (R,T)	U246 Cyanogen bromide
quantity exclusion defined in § 261.5 (a)	U239 Benzene, dimethyl-(I,T)	U1971,4-Cyclohexadienedione
	U2011,3-Bertzenediol	U056 Cyclohexane (f)
and (f).	U127	U130 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexa
[Comment: For the convenience		ohioro-
of the regulated community,	U188Benzene, hydroxy-	U058 Oyolophoephamide
the primary hazardous proper-	U105 Benzene, 1-methyl-1-2,4-dinitro-	U240 2,44-D, salts and esters
tion of these meetanish have been	U106	U059 Daunomycin
ties of these materials have been	U203 Benzene, 1,2-methylenedioxy-4-allyl-	U060
indicated by the letters T (Toxicity), R	U141Benzene, 1,2-methylenedioxy-4-propenyl-	U081
(Reactivity), I (Ignitability) and C	U090 Benzene, 1,2-methylenedioxy-4-propyl-	U142 Decachioroctahydro-1,3,4-metheno-2l4-
(Corrosivity). Absence of a letter	U056 Benzene, (1-methylethyl)- (I)	cyclobuts[c,d]-pentalen-2-one U062Dialiste
indicate that the common distribution	U169 Benzene, nitro- (i,T)	U133 Diamine (R,T)
indicates that the compound is only	U183 Benzene, pentachloro-	U221 Diaminotoluene
listed for toxicity.] These wastes and	U185Benzene, pentàchioro-nitro-	U063 Dibenz(a,h)anthracene
their corresponding EPA Hazardous	U020Benzenesulfonic acid chloride (C,R) U020Benzenesulfonyl chloride (C,R)	U063 1,2:5,6-Dibenzanthracene
	U207 Benzene, 1,2,4,5-tetrachioro-	U0641,2:7,8-Dibenzopyrene
Waste Numbers are:	U023Benzene, (trichloromethyl)-(C,R,T)	U064 Dibenz(a,i)pyrene
[261.33(f) amended by 46 FR 27476,	0234 Benzene, 1,3,5-trinitro- (R,T)	U068
May 20, 1981]	U021 Benzidine	U068 Dibutyl phthalate U062
	U202 1,2-Benzisothiazolin-3-one, 1,1-dioxide	disopropylthiocarbamete
Hazardous Substance	U120Benzo[j,k)fluorene	U070 o-Dichlorobenzene
Waste No.	U022	U071 m-Dichlorobenzene
	U022	U072 p-Dichlorobenzene
U001Acetaidehyde (I)	U023 Benzotrichloride (C,R,T)	U073 3,3'-Dichlorobenzidine
J034Acetaldehyde, trichloro-	U0501,2-Benzphenanthrene	U074
U187Acetamide, N-(4-ethoxyphenyl)-	U085	U075
U005Acetamide, N-9H-fluoren-2-yl- U112Acetic acid, ethyl ester (I)	U021(1,1'-Biphenyl)-4,4'-diamine	berizanide
U144 Acetic acid, lead salt	U073 (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dichloro-	U060 Dichloro diphenyl dichloroethane
U214Acetic acid, thallium(I) salt	U091(1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimeth-	U061 Dichloro diphenyl trichloroethane
U002 Acetone (I)	oxy-	U078 1,1-Dichloroethylene
	U095 (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-	U079 1,2-Dichloroethylene
U003 Acetonitrile (I,T)	3.40m 4 1 61 46 44 4 4 4 4 4 4 4 4 4 4 4 4 4	
U003 Acetonitrile (I,T) U004 Acetophenone	U024 Bis(2-chloroethoxy) methane	U025 Dichloroethyl ether
U003	U027 Bis(2-chloroiscoropyl) ether	U0812,4-Dichlorophenol
U003	U027 Bis(2-chlorolsopropyl) ether U244 Bis(dimethylthiocarbamoyl) disulfide	U081
U003	U027	U081
U003         Acetonitrite (I,T)           U004         Acetophenone           U005         2-Acetylaminofluorene           U006         Acetyl chloride (C,R,T)           U007         Acryliamide           U008         Acrylic acid (I)	U027	U081
L003         Acetonitrile (I,T)           U004         Acetophenone           L005         2-Acetylaminofluorene           L006         Acetyl chloride (C,R,T)           L007         Acrylamide           L008         Acrylic acid (I)           L009         Acrylonitrile	U027	U081
U003	U027. Bie(2-otheroisoprogyt) ether U244. Bis(dimethythiocarbarnoyi) disulfide U028. Bis(2-ethythexyt) phthalete U225. Bromolorm U030. 4-Bromophenyl phenyl ether U128. 1,3-Butadiene, 1,1,2,3,4;4-hexachloro- U172. 1-Butanamine, N-butyl-N-hitroso- U035. Butanoic acid, 4-{Bis(2-chloroethyl)amino} benzene- U031. 1-Butanoi (I) U159. 2-Butanone (I,T) U160. 2-Butanone peroxide (R,T) U053. 2-Butenel U031. 1-Butanol (I) U053. 2-Butanone peroxide (R,T) U053. 1-Butanol (I) U074. 1-Butanol (I) U031. 1-Butanol (I)	U081
U003	U027	U081 2,4-Dichlorophenol U082 2,6-Dichlorophenol U240 2,4-Dichlorophenol U240 2,4-Dichlorophenoxyaçetic acid, safts an esters U083 1,2-Dichloropropene U084 1,3-Dichloropropene U085 1,2:3,4-Diepoxybutane (f,T) U108 1,4-Diethylene dioxide U086 N.N-Diethyltyrkydrazine U087 0,0-Diethyl-5-methyl-dithiophosphate U089 Diethyl phthatare U089 Diethyl phthatare U089 Diethyl phthatare U099 Direthylatific one U091 3,3-Dimethoxybenzidine U092 Dimethylamine (f) U093 Dimethylamine (f) U094 7,12-Dimethylbenz(allanthracene U095 3,3-Dimethylbenz(allanthracene) U095 3,3-Dimethylbenz(allanthracene) U095 3,3-Dimethylbenz(allanthracene) U095 3,3-Dimethylbenz(allanthracene)
U003	U027	U081
U003	U027	U081 2,4-Dichlorophenol U082 2,8-Dichlorophenol U240 2,4-Dichlorophenoxyaçetic acid, safts an esters U083 1,2-Dichloropropane U084 1,3-Dichloropropane U085 1,2-3,4-Diepoxybutane (f,T) U108 1,4-Diethyfene dioxide U086 N,N-Diethyfenzine U087 0,0-Diethyf-3-methyf-dithiophosphate U088 Diethys hydrazine U088 Diethys tibestrol U148 1,2-Dirhydro-3,6-pyradizinedione U090 Dirhydrosafrole U091 3,3'-Dimethyd-prizidine U092 Direethyfamine (f) U093 Dimethyfaminoszoberrzene U094 7,12-Dimethyfoenzidine U095 3,3'-Dimethyfoenzidine U096 3,3'-Dimethyfoenzidine U097 Dimethyfoenzidine
U003	U027	U081
U003	U027	U081

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riazardous Waste No.	Substance 1997	Hazardous Waste No.	Substance K 161	Hazardous Waste No.	Substance
J103	. Dimethyl sulfate (2007) 3860	V143	Lasiocarpine	U0582i	1-1,3,2-Oxazaphosphorine, 2-[bis(2
J105	. 2,4-Dinkrotoluene stato 115	U144			chloro- ethyl)amino]tetrahydro-, oxide 2
J106	2,6-Dinitrotoluene	U145	Lead phosphete	U115 C	birane (I.T)
	Diractyl phthelete	U146		U041	hirane 2 (chloromethy).
	, 1,4-Dioxane (company)	U129		U182P	araldahuda 🤏
	. 1,2-Diphenylhydrazine; . Dipropylamine (I)		Maleic anhydride	U183P	entachlorobenzene
/111	. Di-N-propylnitrosamina	U148 U149		U184P	entachloroethane entachlorontroberizene
1004	C4	U150		U185P	entachloronitrobenzene
J174	. Elhanemine, N-ethyl-N-nitroeo-	U151		U242 P	
J087	i-mass 1 2 discours.		Methacrylonitrile (I,T)	U186 1.	
J075	. Ethana 1.1-dichioro	U092	Methanamina, N-methyl- (1)	U187 P	
<i>1</i> 077	. Emane, 1,2-dichioro-per	U029	Methane, bromo-		M 342
	1,2-Ethanedylbiscarbamodithioic acid Ethane, 1,1,1,2,2-hexachlore-		Methene, chloro- (I,T)	U048 P	henol, 2-chloro-
I024	Ethane, 1,1'-[methylenebis(cig/)]bis[2-	11000	Methane, chloromethoxy-		henol, 4-chloro-3-methyl-
<b>7</b>	chloro.		Methane, dibromo-	U082P	henol, 2,4-dichloro-
)003	Ethanenitrile (1, T)	1,075	Methene, dichlorodiffuoro-	U101P	henol 2 Adimethyli
	. Ethane,1,1'-oxybia- (i)	U138	Methane, indo-	U170P	henol, 4-nitro-
<i>J</i> 025	Ethane, 1,1'-oxybis(2-chloro-		Methanesulfonic acid, ethyl ester	U242 P	henol, pentachloro-
	Ethane, pentachloro-	U211	Methane, tetrachloro-	U212 P	henol, 2,3,4,6-tetrachioro-
	Ethene, 1,1,1,2-tetrachloro-	U121	Methene, trichlorofluoro-		henel, 2,4,5-trichloro-
	Ethane, 1,1,2,2-tetrachioro-	U153	Methanethiol (1,T)	U231 P	henol, 2,4,6-trichloro-
	Ethenethioemide	U225	Methane, tribromo-	U13/	,10-(1,2-phenylene)pyrene
JEE!	Ethana, 1,1,2-trichloro- Ethana, 1,1,1-trichloro-2,2-		Methane, trichloro-	U087P	hosphoric acid, Lead salt hosphorodithioic acid, 0,0-diethyl-, 8
	Sinds mathematical S		Methane, trichlorofluoro-		mosphorodiumoic sicia, 0,0-dietriyi-, 2 methylester
J043		Linas	Methenoic acid (C,T) 4,7-Methenoindan, 1,2,4,5,6,7,6,8-octa-		•
	Ethene, 2-chloroethoxy-	~~~	-1,2,4,5,0,7,6,6-90ta- chloro-3a,4,7,7a-tetrahydro-	U189P	hosphorous sulfide (R)
	Ethene, 1,1-dichloro-	U154	Methanol (f)	U190 P	
	Etherie, trans-1,2-dichloro-	U1\$5		U192P	
J210	Ethene, 1,1,2,2-letrachigro-	U247		U1941	
	Ethanol, 2,2'-(nitrosolmino)bis-	U154	Methyl alcohol (I)		Propanamine, N-propyl- (I)
	. Ethanone, 1-phanyl-	U029	Methyl bromide	U066 P	ropane, 1,2-dibromo-3-chloro-
	Ethanoyl chloride (C,R,T)		1-Methylbutadiene (I)	U149 P	ropanedinitrile
	Ethyl acetate (I)	U045	Methyl chloride (I,T)	U171^P	
	Ethyl acrylate (I) Ethyl carbamate (urethan)		Methyl chlorocarbonate (I,T)		ropane, 2,2 coybis(2-chioro-
	Ethyl 4,4'-dichlorobenzilate	U226		U193 1,	,3-Propene sultone (2) (3)
J114	Ethylenebis(dithiocarbamic acid)	U137	3-Methylcholanthrene 4,4'-Methylenebis(2-chloroaniline)	U235	Propenol, 2,3-dibromo-, phosphate (3:1
	Etylene dibromide		2,2 Methylenebis(3,4,6-trichtorophenol)	U1261	Propanol, 2,3-epoxy-
	Ethylene dichloride	LIOSS	Methylene bromide	U140 1-	Propanol, 2-methyl- (I,T)
J115	Ethlene oxide (I,T)	U080	Methylene chloride	U002 2-	Propanone (I)
	Ethylene thiograp	U122	Methylene oxide	U007 2-	
J117			Methyl ethyl ketone (I,T)	U084 Pi	ropene, 1,3-dichioro-
J076	Ethylidene dichloride		Methyl ethyl ketone peroxide (R,T)	U243 1-	Propene, 1,1,2,3,3,3-hexachloro-
	Ethylmethecrylate Ethyl methenesullonate	U138		U0092	Propenentifie, 2-methyl- (1,T)
J139			Methyl leobutyl ketone (I)	U0082-	Propendic acid (f)
J120	Fluoranthene	U102	Methyl methacrylate (I,T) N-Methyl-N'-nitro-N-nitrosoguanidine	U1132-	Propenoic acki, ethyl ester (I)
/122			4-Methyl-2-pentanone (I)	U118 2-	Propenoic acid 2-methyl, ethyl este
J1 <b>2</b> 3	Formic acid (C,T)	U184		U162 2-	Propenoic acid, 2-methyl-, methyl este
J124		U010		•	(I,T)
	. 2-Furancarboxaldehyde (I)		5.12-Naphthacenedione, (8S-cis)-8-acetyl-	U233 Pi	ropionic acid, 2-(2,4,5-trichlorophenoxy)
J147			10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-	U194	Propriamine (LT)
	Furan, tetrahydro- (1)		hexopyranosyljokyl]-7,8,9,10-tetrahydro-	U083 Pr	ropylene dichloride
J1 <b>25</b> J124			6,8,11-trihydroxy-1-methoxy-	U196 P	ridine
	D-Glucopyranose, 2-deoxy-2(3-methyl-3-ni-	U165	Naphthalane, 2-chloro-	U155 P)	ridine, 2-[(2-(dimethylamino)-2-thenyte
<b>/L</b> • • • • • • • • • • • • • • • • • • •	trocourado)-		1,4-Naphthalenedione		mno)-
J126	Glycidytaldelryde		2,7-Nephthalenedisulfonic acid, 3,3'-[(3,3'-	U1/9P)	ridine, hexahydro-N-nitroso-
/163	Guanidine, N-nitroso-N-methyl-N'nitro-	w 6,000	dimethyl-(1,1'-biphenyl)-(1,4'diyl)]-bis	U191P)	ridine, 2-methyl-
J127	Herachlorobenzene		(azo)bis(5-amino-4-hydroxy)-,tetrasodium		1H)-Pyrimidinone, 2,3-dihydro-6-methyl 2-thioxo-
	. Hexachlorobutadiene		salt		
	Hexachlorocyclohexane (gamma isomer)		1,4,Naphthaguinone	U180P)	mole, tetrahydro-N-nitroso-
	Hexachlorocyclopentadiene	U167	1-Naphthylamine	U200 Re	eserpine .
	. Hexachloroethane	U168		U201 Re	esorcinol
	. Hexachlorophona		alpha-Naphthylamine	U202 Se U203 Se	ochann and saits
	. Hexachloropropene . Hydrazine (R,T)		Deta-Naphthylemine	U204 Se	elenious acid
1086	. Hydrazine, 1,2-diethyl-	U026		U204 Se	elenium dioxide
J098	Hydrazina, 1,1-dimethyl-	_U169	methyl)- Nitrohenzene (I.T)	U205 Se	elenium disulfide (R.T)
J099	Hydrazine, 1,2-dimethyl-	U170		U015 L-	Serine, diazoacetate (ester)
J109	. Hydrazine, 1,2-diphenyl-	U171		U233 \$i	Vex
J134	Hydrofluoric sold (C,T)		N-Nitrosodi-n-butylamine	U089 4	4'-Stilbenediol, alpha,alpha'-diethyl-
	Hydrogen fluoride (C,T)	U173	N-Nitrosodiethanolamine	U206 St	replozotocin
J135	Hydrogen suifide	U174	N-Nitrosodiethylamine	U135 Su	lifur hydride
/UF5	Hydroperoide, 1-methyl-1-phenylethyl- (Pt)	U111	N-Nitroso-N-propylamine	U103 Su	Ifuric acid, dimethyl ester
/1 <b>35</b>	Hydroxydimethylarsine made		N-Nitroso-N-ethylurea	U169 Su	ifur phosphide (R)
	2-Imidazolidinethione		N-Nitroso-N-methylurea	U205 Su	iffur selenide (PLT)
1139	Indeno(1,2,3-cd)pyrene		N-Nitroso-N-methylurethane	U232 2,4	4,5-T
H40.	isobutyl sicohol (LT)		N-Nitrosopiperidine	1,207 1,2	2,4,5-Tetrachlorobenzene
		U18U	N-Nitrosopyrolidine	U200 1,1	1,1,2-Tetrachioroethane 1,2,2-Tetrachioroethane
<u> </u>	, 1906 <b>911'010</b>	U181.,			

# ENVIRONMENTAL PROTECTION AGENCY REGULATIONS ON DETERMINATION OF REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES

1.

(40 CFR 117; 44 FR 50776, August 29, 1979, Effective September 28, 1979; Corrected by 44 FR 58711, October 11, 1979; 44 FR 58910, October 12, 1979; 44 FR 65400, November 13, 1979)

[Editor's note: EPA August 29, 1979, indefinitely deferred the effective date of these regulations for common carriers who are precluded by federal law from obtaining data on whether their cargoes include hazardous substances (44 FR 50766). EPA September 17, 1980, said that common carriers will be required to report discharges of hazardous substances beginning November 20, 1980 (45 FR 61617).

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Moreover, promulgation of this part effectively lifts the Federal Maritime Commission's stay of applicable provisions of 46 CFR 542, pertaining to financial liability for discharges of hazardous substances. The commission's rules have the same effective date as this part. (See editor's note at end of 46 CFR 542, published at page 131:1101.)

EPA September 17, 1979, postponed applicability and enforcement of these regulations for lime, pending final action regarding the continued designation of calcium oxide and calcium hydroxide as hazardous substances (44 FR 53749). The agency November 13, 1979, deleted these chemicals from the hazardous substances list.

## PART 117—DETERMINATION OF REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES

#### Subpart A-General Provisions

Sec.

117.1 Definitions. 117.2 Abbreviations

117.3 Determination of reportable

quantities,

#### Subpart B-Applicability

117.11 General applicability.

117.12 Applicability to discharges from facilities with NPDES permits.

117.13 Applicability to discharges from publicly owned treatment works and their users.

117.14 Demonstration projects.

### Subpart C—Notice of Discharge of a Reportable Quantity

117.21 Notice.

117.22 Penalties.

117.23 Liabilities for removal.

Authority: Secs. 311 and 501(a), Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), ["the Act"] and Executive Order 11735.

#### Subpart A General Provisions

#### § 117.1 Definitions.

As used in this part, all terms shall have the meanings stated in 40 CFR Part 116.

(a) "Reportable quantities" means quantities that may be harmful as set forth in § 117.3, the discharge of which is a violation of section 311(b)(3) and requires notice as set forth in § 117.21.

(b) "Administrator" means the Administrator of the Environmental Protection Agency ("EPA").

(c) "Mobile source" means any vehicle, rolling stock, or other means of transportation which contains or carries a reportable quantity of a hazardous substance.

(d) "Public record" means the NPDES permit application or the NPDES permit itself and the "record for final permit" as defined in 40 CFR 124.122.

- (e) "National Pretreatment Standard" or "Pretreatment Standard" means any regulation containing pollutant discharge limits promulgated by the EPA in accordance with section 307 (b) and (c) of the Act, which applies to industrial users of a publicly owned treatment works. It further means any State or local pretreatment requirement applicable to a discharge and which is incorporated into a permit issued to a publicly owned treatment works under section 402 of the Act.
- (f) "Publicly Owned Treatment Works" or "POTW" means a treatment

works as defined by section 212 of the Act, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any sewers that convey wastewater to such a treatment works, but does not include pipes, sewers or other conveyances not connected to a facility providing treatment. The term also means the municipality as defined in section 502(4) of the Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

- (g) "Remove" or "removal" refers to removal of the oil or hazardous substances from the water and shoreline or the taking of such other actions as may be necessary to minimize or mitigate damage to the public health or welfare, including, but not limited to, fish, shellfish, wildlife, and public and private property, shorelines, and beaches.
- (h) "Contiguous zone" means the entire zone established by the United States under Article 24 of the Convention on the Territorial Sea and Contiguous Zone.
- (i) "Navigable waters" means "waters of the United States, including the territorial seas." This term includes:
- (1) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide:
- (2) Interstate waters, including interstate wetlands:
- (3) All other waters such as intrastate lakes, rivers, streams, (including intermittent atreams), mudflats, sandflats, and wetlands, the use, degradation or destruction of which would affect or could affect interstate or

[Sec. 117.1(i)(3)]

foreign commerce including any such waters:

(i) Which are or could be used by interstate or foreign travelers for recreational or other purposes:

(ii) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce;

foreign commerce;
(iii) Which are used or could be used for industrial purposes by industries in interstate commerce;

(4) All impoundments of waters otherwise defined as navigable waters under this paragraph; (5) Tributaries of waters identified in

paragraphs (i)(1)-[4) of this section, including adjacent wetlands; and

(6) Wetlands adjacent to waters identified in paragraphs (i)(1)-(5) of this section ("Wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally included playa lakes, swamps, marshes, bogs, and similar areas such as sloughs, prairie potholes, wet meadows, prairie river overflows, mudflats, and natural ponds): Provided, That waste treatment systems (other than cooling ponds meeting the criteria of this paragraph) are not waters of the United States.

(j) "Process waste water," means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

## § 117.2 Abbreviations.

NPDES equals National Pollutant Discharge Elimination System. RQ equals reportable quantity.

### § 117.3 Determination of reportable quantities.

The quantity listed with each substance in Table 117.3 is determined to be the reportable quantity for that substance.

## Table 117.3—Reportable Quantities of Hazardous Substances

Note.—The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column

headed "Category" which lists the code letters "X", "A", "B", "C" and "D" associated with reportable quantities of 1, 10, 100, 1000 and 5000 pounds respectively.

	itegory	RQ in pounds (ldlograms)
		• ) •
Acetaldehyde	Call to	1,000 (454) 1,000 (454)
Acetic anhydride	Ç	1,000 (454)
Acetone cyanohydrin	A D	10 (4.54) 5,000 (2,270 <u>)</u>
Agetyl bromide	D	5,000 (2,270)
Acrolein Acrylonitrile	X 8	1 (0.454) 100 (45.4)
Adipic acid	Ď	5,000 (2,270)
AldrinAllyl elcohol	X B	1 (0.454)
Allvi chioride	Č	100 (45.4) 1,000 (454)
Aluminum sulfate	D	5,000 (2,270)
Ammonia Ammonium acetate	Barata an D	100 (45.4) 5,000 (2,270)
Ammonium benzoate	D	5,000 (2,270)
Ammonium bicarbonate Ammonium bichromate,	D	. 5,000 (2,270) 1,000 (454)
Ammonium bifluoride	Ď	5,000 (2,270)
Ammonium bisulfite	D	5,000 (2,270)
Ammonium carbamate	D	5,000 (2,270) 5,000 (2,270)
MINIORUI GRANGE		5,000 (2,270)
Ammonium chromate	8,000	1,000 (454)
Ammonium fluoborate	b	5,000 (2,270) 5,000 (2,270)
Ammonium fluoride	√Dir 19lastic.	5,000 (2,270)
Ammonium hydroxide	C	1,000 (454)
Ammonium oxalate	Č terse sec	1,000 (2,270) 1,000 (454)
Ammonium sulfamate	D	5,000 (2,270)
Ammonium sulfide	D D	5,000 (2,270) 5,000 (2,270)
Ammonium terirate	Ď	5,000 (2,270)
Ammonium thiocyanate	D ,	5,000 (2,270)
Ammonium thiosulfate Amyl acetate	D C	5,000 (2,270) 1,000 (454)
Aniline	Č	1,000 (454)
Antimony pentachloride	C	1,000 (454)
Antimony potassium tartrate	C	1,000 (454)
Antimony tribromide	C: C	1,000 (454) 1,000 (454)
Antimony trifluoride	C	1,000 (454)
Antimony trioxide	D i	5,000 (2,270) 5,000 (2,270)
Arsenic pentoxide	6	5,000 (2,270)
Arsenic trichloride	Ď	5,000 (2,270)
Arsenic trioxide	D D	5,000 (2,270) 5,000 (2,270)
Barium cyanida	× ·	. 10 (4.54)
Benzene	č	1,000 (454)
Benzoic acidBenzoic acid	D C	5,000 (2,270) 1,000 (454)
Benzoyi chloride,	č	1,000 (454)
Benzyl chloride	8	100 (45.4)
Beryllium chloride Beryllium fluoride	D D	5,000 (2,270) 5,000 (2,270)
Beryllium nitrate	D	5,000 (2,270)
Butyl acetate	О В	5,000 (2,270) 100 (45.4)
Butytamine	Č	1,000 (454)
Butyric acid	D	5,000 (2,270)
Cadmium acetate Cadmium bromide	8 B	100 (45.4) 100 (45.4)
Catimium chloride	8	100 (45.4)
Calcium arsenate	C	1,000 (454)
Calcium arsenite Calcium carbide	C D	1,000 (454) 5,000 (2,270)
Calcium chromate	C	1,000 (454)
Calcium cyanide	A	10 (4.54)
Calcium dodecyfbenzenesulfonate.	С	1,000 (454)
Calcium hypochlorite	В.	100 (45.4)
	Ä	

Material	Category	pounds (kilograms)
Carbaryl	В	100 (45.4)
Carbofuran	<u>A</u>	10 (4.54)
Carbon disulfide	D	5,000 (2,270) 5,000 (2,270)
Carbon tetrachloride Chlordene Chlorine	X	1 (0.454)
Chlorine	<u>A</u>	10 (4.54)
Chloroform	D	100 (45.4) 5,000 (2,270)
Chlorpyrlfos	X	1 (0.454)
Chloroeutfonic acid		1,000 (454) 1,000 (454)
Chromic acetate		1,000 (454)
Chromic sold	initial C	1,000 (454)
Chromous chlorideCobaltous bromide		1,000 (454) 1,000 (454)
Cobaltous formate		1,000 (454)
Cobaltous formate  Cobaltous sulfamete  Cournaphos		1,000 (454)
Cresol	Ĝ	10 (4.54) 1.000 (454)
Crotonal dehyde	<b></b>	.100 (45.4)
Cupric acetate	<del>ntin</del> by <mark>B</mark> erry in	100 (45,4)
Cupric chloride		대한 (4.54) · 10 (4.54)
Cupric nitrate		100 (45.4)
Cupric exists	8 د است.	100 (45.4)
Cupric sulfate ammoniated	B B	100 (45.4)
Cupric tartrate	10 B.	100 (45.4)
Cyanogen chlonde	1: A	1 000 (454)
2,4-D Aold	, В	100 (45.4)
2.4-D Esters	8	100 (45.4)
Diazinon	X	1 (0.454)
Dicamba	TATING COLOR	1,000 (454)
Dichlobenii	ત્રામાલે <b>લેઈ</b> ⊸ાં	1,000 (454)
Dichlorobenzene	B	100 (45.4)
Dichloropropane	D	5,000 (2,270)
Cobatious suffamets Coumaphos Cresol Crotonal dehyde Cupric acetate Cupric acetate Cupric chloride Cupric chloride Cupric callate Cupric callate Cupric suffate Cupric suff	Disk	5,000 (2,270) 6,000 (2,270)
Dichloropropane Mixture		(afabb Attility)
2,2-Dichloropropionic acid	D	5,000 (2,270)
Dieldrin		1 (0.454)
Diethylamine	С	1,000 (454)
Diethylamine Dimethylamine Dinitroberzene Dinitroberzene Dinitrotoluene Diquet Disurction Diuron Dodecytberzenesulfonic a Endosulfin	G	1,000 (454)
Dinitrophenol	C	1,000 (454)
Dinitrotoluene	<u>C</u>	1,000 (454)
Disulfoton	U	1,000 (454)
Diuron	B	100 (45.4)
Dodecytbenzenesulfonic a Endosulfan Endrin	cid C	1,000 (454)
Endosuran		1 (0.454)
Epichlorohydrin	С	1,000 (454)
Ethylbenzene	<u>A</u>	10 (4.54)
Ethyloenzene		1,000 (454) 1,000 (454)
EthylenediamineEthylene dibromide	; č	1,000 (454)
Ethylene dichloride	D D	5,000 (2,270) 5,000 (2,270)
Ferric ammonium citrate	C	1,000 (454)
Ferric ammonium oxalate	C	1,000 (454)
Ferric chloride		1,000 (454) 100 (45.4)
Ferric nitrate	С	1,000 (454)
Ferric sulfate		1,000 (454)
Ferrous chloride		1,000 (454) 100 (45.4)
Ferrous sulfate	С	1,000 (454)
Formaldehyde		1,000 (454) 5,000 (2,270)
Furnaric acid	D	5,000 (2,270)
Furfural	С	1,000 (454)
Guthion Heptachlor		1 (0.454) 1 (0.454)
Hexachlorocyclopentadier	• X	1 (0.454)
Hydrochloric acid	P	5,000 (2,270)
Hydrofluoric acid	D	5,000 (2,270)



RQ in/

v that prior to accepting	ode am	RO In
Material Drif ## Cate	pory Distarte C	pounds
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· #Ndrogen sulfide to the control of 8	lofiza i d	i (100 (45.4)
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dodecytoenzenesultonates dia o	រ ១ដែ <b>ត</b> ៈ ខេ	ાક ₹0£ 5,000 <b>(2,270)</b>
Kepone		5,000 (2,270) 5, -1, (0.454) 5,000 (2,270)
Leed acetale	North and A	5,000 (2,270) 5,000 (2,270)
Lead Grigoride	<b>ງກາ</b> ລະຕາ ເຈ	5,000 (2,270) 5,000 (2,270)
Load Bundelo	His man	1,000 (454)
Lead citrate V/CL 12 21P.S.3 9C	. 3- 11 (-52)	5,000 (2,270) 5,000 (2,270)
Lead steerate	<b>្វៃ</b> ១៤ [ភាពអ្	6,000 (2,270) 6,000 (2,270)
Ontraction hits notice and	🕽 🖯 នៃការព	5,000 (2,270)
S Leed thiocyanate	ode dego	1 (0.454)
Malathisar	aos aut Michael	1,000 (454) 10 (4,54)
Maleic acid	,	5,000 (2,270) 5,000 (2,270)
t cMercaptodimethur	and the	(45.4)
Mercuric cyanice		⊋∵10 (4.54)
Mercuric sulfations and a second	gramaca s	a 10 (4.54) 10 (4.54)
Mercurous nitrate Data Data and	HE YES L	10 (4,54)
Methorychlor	८ ःतुर 3	1 (0.454)
Methyl methacrylate	•	E 000 10 0701
Mevinphos	୍ଷଳ ହାଣ୍ଡ 🔾	1 (0.454)
Monoethylamine (	. Marier	1,000 (454) 1,000 (454) 1,000 (454)
Monomethylamine	ti arounda.	*1,000 (454) 10 (4.54)
Naphthalene Naphthenic soid	· · · · · · · · · · · · · · · · · · ·	5,000 (2,270) 100 (45.4)
	n an	5.000 (2.270)
Nickel hydroxide		5,000 (2,270) 1,000 (454)
Nickel nitrate 12 15/229 11 11 1		5,000 (2,270) 5,000 (2,270)
NATIC SCIO	la e	1,000 (454)
Nitrobenzene	• 6	1 000 (454)
Nitrophenol VIII	grave ted	1,000 (454)
Paraformaldehyde::::::::::::::::::::::::::::::::::		1,000 (454)
Pentachlorophenol		1 (0.454) 10 (4.54)
Phono 2		1,000 (454) 5,000 (2,270)
Phosphoric acid		5,000 (2,270) 1' (0,454)
Phoenhorus oxychloride	)	5,000 (2,270)
Phosphorus pentasulfide		100 (45.4) 5,000 (2,270)
Polychlorinated biphenyls		10 (4.54) 1,000 (454)
Potassium arsenite	Visit	.1,000 (454)
Potessium chromate	) ··· \	1,000 (454) 1,000 (454)
Potassium cyanide	i iu i i	10 (4.54) 1000(454)
Potassium permanganate	3	100 (45.4) 10 (4.54)
Propioric acid	) ' '	5,000 (2, <i>2</i> 70)
	)	5,000 (2,270) 5,000 (2,270)
Pyrethrins (		1,000 (454) 1,000 (454)
Resorcinal		1,000 (454) 1,000 (454)
Silver nitrate	<b>(</b>	1 (0.454)
Sodium arsenate	3	1,000 (454) 1,000 (454)
		1,000 (454) 1,000 (454)
,		

(i) and § 117 12(c)(1)(ii) be	RO in
III [111] [Material 1.5 ] Category :	pounds
n eu-51/6 : dease; and	
Socium bifluoride D	
Sodium bisulfite	5,000 (2,270)
Sodium chromate	1,000 (454)
Sodium chromate	10 (4.54)
Sodium 9818153843 18 STATE	1,000 (454)
Sodium fluoride	North State in the
Sodium flioride AN UST 1119 D'Sodium flydroeutrides 12 12 12 12 12	
Sodium hydroside	1 000 (454)
Sodium hydroxide 3 3 5 5 5 8 60	100 (45.4)
Sodium intrite in the state of	2 :: 1,000 (454)
Sodium nitrite market man of B. O. 1	Sec. 100 (45.4)
Sodium phosphate, dibasic D	5,000 (2,270)
Sodium phosphate; tribasic (22 9 D 197)	5,000 (2,270)
Sodium seienne	1,000,4454)
Strontum chromate  Strychnine in a gaste contact and C	(454) 1000) (15 1074 <u>1</u> 15) إنهان إنهاد
Styrene C	1,000 (454)
Styrene C Sulturic Moid 9 711102 10:00	1,000 (454)
Sulfur monochloride	1,000 (454)
2,4,5-T acid B	100 (45.4)
2,4,5-7 amiries	역약의 타 <b>100 (45.4)</b>
2,4,5-T esters B	100 (45,4)
2,4,5-T salts B 2,4,5-TP acid/ci	100 (45.4)
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2,4,5-TP soid esters 1977 C B	1 (0.454)
Tetraethyl pyrophosphate 2 8	100 (45.4)
A Landitional to deducted of the second applications 1 the first	1,000 (454) 1,000 (454)
Tokuene	1,000 (454)
Toxapheneutiara. In	4 666 447 41
Trichloroethylene C	1,000 (454) 1,000 (454)
Trichlorophenol	10 (4.54)
Triethanolamine	1,000 (454)
OCOGCYIOSTIZETIQUINOTALIS.	Official and a second of the con-
Triethylamine	5,000 (2,270)
	1,000 (454) - ボジニー <b>5,000 (2,270)</b>
Uranyl acetate	
Uranyi nitrata	5,000 (2,270) 1,000 (454)
Vanadium pentoxide	(404) 000,1 (434) 000 (
Vinyl scetate Casi	1,000 (454)
Vinyligene chlonge., U	5,000 (2,270)
Xylens C	1,000 (454)
Zinc acetate	1,000 (454)
Zinc acetate	1,000 (454)
Zinc ammonium chloride. 2.2	6 30 <b>5,000 (2,270)</b>
Zinc borate C	1,000 (454) 5,000 (2,270)
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Zinc chlorideD	5,000 (2,270)
Zinc cvanide A	10 (4.54)
Zinc fluoride:	1,000 (454)
Zinc formate	1,000 (454)
Zinc hydrosulfite	1,000 (454)
Zinc nitrate D (III)	5,000 (2,270)
Zinc phenoisulfonate	1,000 (454) 5,000 (2,270) 5,000 (2,270) 1,000 (454)
Zinc silicofluoride	5,000 (2,270)
	1.000 (454)
Zinc suitate C	5,000 (454) 5,000 (2,270)
Zirconium potassium fluoride., D	5.000 (2.270)
Zirconium sulfate D	5,000 (2,270)
Zirconium letrachloride	5,000 (2,270)

[117.3 table corrected by 44 FR 58711, October 11, 1979; amended by 44 FR 65400, November 13, 1979]

#### Subpart B-Applicability

#### § 117.11 General applicability.

This regulation sets forth a determination of the reportable quantity for each substance designated as hazardous in 40 CFR Part 116. The

regulation applies to quantities of the designated substances equal to or the designated substances equal to or the greater than the reportable quantities, when discharged into or upon the navigable waters of the United States, adjoining shorelines, into or upon the contiguous zone, or beyond the substance contiguous zone as provided in section. 311(b)(3) of the Act, except to the extent that the owner or operator can show no such that discharges are made; includes

(a) In compliance with a permit issued under the Marine Projection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1401 et seq.); 1661092 rebru noiseacce (b) In compliance with approved

water treatment plant operations as specified by local or State regulations pertaining to safe drinking water.

(c) Pursuant to the label directions for application of a pesticide product registered under section 3 or section 24 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended (7 U.S.C. 138 et seq.), or pursuant to the terms and conditions of an experimental use permit issued under section 5 of FIFRA, or pursuant to an

(d) In compliance with the regulations issued under section 3004 or with permit conditions issued pursuant to section 3005 of the Resource Conservation and Recovery Act [90 Stat. 2795; 42 U.S.C. 8011)

exemption granted under section 18 of

FIFRA;

(e) In compliance with instructions of the On-Scene Coordinator pursuant to 40 CFR 1510 (the National Oil and Hazardous Substances Pollution Plan) or 33 CFR 153.10(e) (Pollution by Oil and Hazardous Substances) or in accordance with applicable removal regulations as required by section 311(j)(1)(A);

(f) In compliance with a permit issued under § 165.7 of Title 14 of the State of California Administrative Code;

(g) From a properly functioning inert gas system when used to provide inert gas to the cargo tanks of a vessel; (h) From a permitted source and are

excluded by § 117.12 of this regulation;
(i) To a POTW and are specifically

excluded or reserved in § 117.13; or

(j) In compliance with a permit issued under section 404(a) of the Clean Water Act or when the discharges are exempt from such requirements by section 404(f) or 404(r) of the Act (33 U.S.C. 1344(a), (f), (r)).

364

## § 117.12 Applicability to discharges from facilities with NPDES permits:

(a) This regulation does not apply to:

(1) Discharges in compliance with a permit under section 402 of this Act;

(2) Discharges resulting from the circumstances identified, reviewed and made a part of the public record with respect to a permit issued or modified under section 402 of this Act, and the subject to a condition in such permit; is

(3) Continuous or anticipated (3) (a) intermittent discharges from a point (5) source, identified in a permit or permit application under section 402 of this Act, which are caused by events occurring within the scope of the relevant operating or treatment systems; or

- (b) A discharge is "in compliance with a permit issued under section 402 of this Act" if the permit contains an effluent limitation specifically applicable to the substance discharged or an effluent limitation applicable to another waste parameter which has been specifically identified in the permit as intended to limit such substance, and the discharge is in compliance with the effluent limitation.
- (c) A discharge results "from circumstances identified, reviewed and made a part of the public record with respect to a permit issued or modified, under section 402 of the Act, and subject to a condition in such permit," whether or not the discharge is in compliance with the permit, where:

(1) The permit application, the permit, or another portion of the public record contains documents that specifically identify:

(i) The substance and the amount of the substance; and

(ii) The origin and source of the substance; and

(iii) The treatment which is to be provided for the discharge either by:

(A) An on-site treatment system separate from any treatment system treating the permittee's normal discharge; or

(B) A treatment system designed to treat the permittee's normal discharge and which is additionally capable of treating the identified amount of the identified substance; or

(C) Any combination of the above; and

(2) The permit contains a requirement that the substance and amounts of the substance, as identified in

§ 117.12(c)(1)(i) and § 117.12(c)(1)(ii) be treated pursuant to § 117.12(c)(1)(iii) in the event of an on-site release; and

(3) The treatment to be provided is in place.

- (d) A discharge is a "continuous or anticipated intermittent discharge from a point source, identified in a permit or permit application under section 402 of this Act, and caused by events occurring within the scope of the relevant whether or not the discharge is in compliance with the permit, if:
- (1) The hazardous substance is discharged from a point source for which a valid permit exists or for which a permit application has been submitted; and

[117.12(d)(1) corrected by 44 FR 58910, October 12, 1979]

- (2) The discharge of the hazardous substance results from:
- (i) The contamination of noncontact cooling water or storm water, provided that such cooling water or storm water is not contaminated by an on-site spill of a hazardous substance; or
- (ii) A continuous or anticipated intermittent discharge of process waste water, and the discharge originales within the manufacturing or treatment systems; or
  - (iii) An upset or failure of a treatment system or of a process producing a continuous or anticipated intermittent discharge where the upset or failure results from a control problem, an operator error, a system failure or malfunction, an equipment or system startup or shutdown, an equipment wash, or a production schedule change, provided that such upset or failure is not caused by an on-site spill of a hazardous substance.

## § 117.13 Applicability to discharges from publicly owned treatment works and their users.

- (a) [Reserved], with the exception of § 117.13(b) below.
- (b) These regulations apply to all discharges of reportable quantities to a POTW, where the discharge originates from a mobile source, except where such source has contracted with, or otherwise received written permission from the owners or operators of the POTW to discharge that quantity, and the mobile

the substance from an industrial discharger, the substance had been treated to comply with any effluent limitation under sections 301, 302 or 306 and applicable to that facilitys

#### \$ 117.14 Demonstration projects.

Notwithstanding any other provision of this part, the Administrator of the Environmental Protection Agency may, on a case-by-case basis, allow the discharge of designated hazardous substances in connection with research or demonstration projects relating to the prevention, control, or abatement of hazardous substance pollution. The Administrator will allow such a discharge only where he determines that the expected environmental benefit from such a discharge will outweigh the potential hazard associated with the discharge.

## Subpart C—Notice of Discharge of a Reportable Quantity

#### § 117,21 Notice.

Mindredt, G. disposition, in Any person in charge of a vessel or an onshore or an offshore facility shall, as soon as he has knowledge of any 👀 🖰 discharge of a designated hazardous substance from such vessel or facility in quantities equal to or exceeding in any 24-hour period the reportable quantity determined by this Part, immediately notify the appropriate agency of the United States Government of such discharge. Notice shall be given in accordance with such procedures as the Secretary of Transportation has set forth in 33 CFR 153.203. This provision applies to all discharges not specifically excluded or reserved by another section of these regulations.

#### § 117.22 Penalties.

(a) Any person in charge of a vessel or an onshore or offshore facility who fails to notify the United States Government of a prohibited discharge pursuant to § 117.21 (except in the case of a discharge beyond the contiguous zone, where the person in charge of a vessel is not otherwise subject to the jurisdiction of the United States) shall be subject to a fine of not more than \$10,000 or imprisonment for not more than one year, or both, pursuant to section 311(b)(5).

(b) The owner, operator or person in charge of a vessel or an onshore or offshore facility from which is discharged a hazardous substance designated in 40 CFR Part 116 in a quantity equal to or exceeding in any 24hour period, the reportable quantity established in this Part (except in the case of a discharge beyond the contiguous zone, where the person in charge of a vessel is not otherwise subject to the jurisdiction of the United States), shall be assessed a civil penalty of up to \$5,000 per violation under section 311(b)(6)(A). Alternatively, upon a determination by the Administrator, a civil action will be commenced under section 311(b)(6)(B) to impose a penalty not to exceed \$50,000 unless such discharge is the result of willful negligence or willful misconduct within the privity and knowledge of the owner, operator, or person in charge, in which

case the penalty shall not exceed \$250,000.

Note: The Adminstrator will take into account the gravity of the offense and the standard of care manifest by the owner. operator, or person in charge in determining whether a civil action will be commenced under section 311(b)(6)(B). The gravity of the offense will be interpreted to include the size of the discharge, the degree of danger or harm to the public health, safety, or the environment, including consideration of toxicity, degradability, and dispersal characteristics of the substance, previous spill history, and previous violation of any spill prevention regulations. Particular emphasis will be placed on the standard of care and the extent of mitigation efforts manifest by the owner, operator, or person in

#### § 117.23 Liabilities for removal.

In any case where a substance designated as hazardous in 40 CFR Part

116 is discharged from any vessel or onshore or offshore facility in a quantity equal to or exceeding the reportable quantity determined by this Part, the owner, operator or person in charge will be liable, pursuant to sections 311 (f) and (g) of the Act, to the United States Government for the actual costs incurred in the removal of such substance, subject only to the defenses and monetary limitations enumerated in sections 311 (f) and (g) of the Act.

The Administrator may act to mitigate the damage to the public health or welfare caused by a discharge and the cost of such mitigation shall be considered a cost incurred under section 311(c) for the removal of that substance by the United States Government.

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es United Salers or a Stere of politic the Federal Water Countries Control \$116.4 Designation of herardous sub-ENVIRONMENTAL PROTECTION AGENCY REGULATIONS Some A boil ON DESIGNATION OF HAZARDOUS SUBSTANCES UNDER THE

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#### SUBCHAFTER D-WATER PROGRAMS PART 116—DESIGNATION OF HAZARDOUS SUBSTANCES

Sec 116.1 Applicability. CAS No. 35000034 116.2 Abbreviations. 116.3 Definitions. 116.4 Designation of hazardous substances.

AUTHORITY: Secs. 311(b)(2)(A) and 501(a), Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.).

## § 118.1 Applicability.

This regulation designates hazardunder section substances 0118 311(b)(2)(A) of the Federal Water Pollution Control Act (the Act). The regulation applies to discharges of subulation applies to discharges of subing, pouring, emitting, emptying or stances designated in Table 116.4.

### § 116.2 Abbreviations.

ppm=parts per million and the common party of the company mg=milligram(s) AND THE PROPERTY OF THE PARTY O kg=kilogram(s) mg/l=milligrams(s) liter≠ per - Interest the second of the s (approx.) ppm

mg/kg=milligram(s) "per kilogram= (approx.) ppm

#### § 116.3 Definitions.

have the meaning defined in the Act and as given below:

discharge "in connection activities under the Outer Continental Shelf Lands Act or the Deepwater. Port Act of 1974, or which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976)," means: (1) A discharge into any waters beyond the contiguous zone from any vessel or onshore or offshore facility, which vessel or facility is subject to or is engaged in activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, and (2) any discharge into any waters beyond the contiguous zone which contain, cover, or support any natural resource belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Fishery Conservation and Management Act of 1976).

The state of the state of

CHAPTER LE ENVIRONMENTAL "Animals" means appropriately sen- means to transport interstate or fored its not the straight with early sitive animals which carry out respirational descriptions and benefits not then by means of a lung structure permitting gaseous exchange between air and the circulatory system;

> "Aquatic animals" means appropriately sensitive wholly aquatic animals areas that are inundated or saturated which carry out respiration by means to surface or ground water at a frequency and duration sufficient to sur of a gill structure permitting gaseous exchange between the water and the circulatory system; ----

"Aquatic flora" means plant life associated with the aquatic eco-system including, but not limited to, algae and higher plants: Secretary control coner

by the United States under article 24

"Discharge" includes but but not 197001 Seniorage comes, 3-chlor; 3nigmub

"Discharge" includes, but is note ited to, any spilling, leaking, pumping, pouring, emitting, emptying or discaping, but excludes (A) discharges in compliance with a permit under section 402 of this Act, (B) discharges resulting from circumstances identified and reviewed and made a part of the public record with respect to a permit issued or modified under section 402 of As used in this part, all terms shall this Act, and subject to a condition in such permit, and (C) continuous or anticipated intermittent discharges from a point source, identified in a permit or portnit application under section 402 of this Act, which are caused by events occurring within the scope of relevant operating or treatment sys-TPROS:

> "LC50" means that concentration of material which is lethal to one half of the test population of aquatic animals upon continuous exposure for 96 hours or less.

> "Mixture" means any combination of two or more elements and/or compounds in solid, liquid, or gaseous form except where such substances have undergone a chemical reaction so as to become inseparable by physical means.

> "Navigable waters" is defined in section 502(7) of the Act to mean "waters of the United States, including the territorial seas," and includes, but is not limited to: (1) all waters which are presently used, or were used in the

eign commerce, fincluding all waters which are subject to the ebb and flow of the tide, and including adjacent wetlands; the term "wetlands" as used in this regulation shall include those areas that are inundated or saturated quency and duration sufficient to support, and that under normal circumstances do support, a prevelance of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include \*swamps, marshes, bogs and similar areas; the term "adja-cent" means bordering, contiguous or "Contiguous zone" means the entire neighboring, (2) tributaries of navigazone established or to be established ble waters of the United States, including adjacent wetlands; (3) interof the Convention of the Territorial state waters, including wetlands; and Sea and the Contiguous Zone; (4) all other waters of the United (4) all other waters of the United States such as intrastate lakes, rivers, streams, mudilate, sandflats and wetlands, the use, degradation or destruction of which affect interstate commerce including, but not limited to:

(i) Intrastate lakes, rivers, streams,

and wetlands which are utilized by interstate travelers for recreational or other purposes; and

(ii) Intrastate lakes, rivers, streams, and wetlands from which fish or shellfish are or could be taken and sold in interstate commerce; and

(iii) Intrastate lakes, rivers, streams, and wetlands which are utilized for industrial purposes by industries in interstate commerce.

"Offshore facility" means any facili-ty of any kind located in, on, or under, any of the navigable waters of the United States, and any facility of any kind which is subject to the jurisdiction of the United States and is located in, on, or under any other waters, other than a vessel or a public vessel;

"Onshore facility" means any facility (including, but not limited to, motor vehicles and rolling stock) of any kind located in, on, or under, any land within the United States other than submerged land:

"Otherwise subject to the jurisdiction of the United States" means subject to the jurisdiction of the United States by virtue of United States citizenship. United States vessel documentation or numbering, or as provided for by international agreement to which the United States is a party.

"Public vessel" means a vessel owned past, or may be susceptible to use as a or bareboat-chartered and operated by

[Sec. 116.3]

114

the United States, or a State or politi- the Federal Water Pollution Control §116.4 Designation of hazardous sub-

the coast which is in direct contact "Vessel" means every description of any isomers and hydrates, as well as with the open sea and the line mark watercraft or other artificial contrictions and mixtures containing

"The Act," means the Federal Water Pollution Control Act, as amended by

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cal subdivision thereof, or by a foreign. Act Amendments of 1972 (Pub. 1, 92- stances, ) and as further amended by the The elements and compounds apaged in commerce. Clean Water Act of 1977 (Pub. 1, 92- stances, ) bearing in Tables 116.4 A and B are

ing the seaward limit of inland waters, vance used, or capable of being used others, substances: Synonyms and and extending seaward a distance of 3 as a means of transportation on water Chemical Abstract System (CAS) other than a public vessel;

Animale" meens appropriately see to seed the verse and well amone evil disparity the common names shall be to a seed to considered the designated substance. coarted ognas, as success antian electronia of a community of the

"Territorial seas" means the belt of the amended by the Clean Water Act. This designation includes designation of the seas measured from the line of or-dinary low water along that portion of the clean water Act. This designation includes numbers have been added for convenience of the user only. In case of any

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#### TABLE 116.4A.—List of hazardous substances—Continued

tartratie.  tartratie.  tartratie.  Antimony tribromide	Common name	CAS No.	Synonyms of defi	Isomers CAS No.
Antimony triblioride   7789818   Butter of antimory   Antimony trifluoride   10025918   Butter of antimory   Antimony trifluoride   1300844   Antimony trifluoride   1300842   Antimony trifluoride   13008442   Antimony trifluoride   13008442   Antimony trifluoride   1300844444444444444444444444444444444444		28300745	tartaries antimony, potassium an-	
Antimony triclinoride   10025918   Butter of antimory   Antimony triclinoride   1306044   International   Inte	Antimony tribromide	7789619	THE STATE OF	***************************************
Antimony trifluoride   130944   Diantimony trotoxide, (Bowers of antimony triviside   130944   Diantimony trotoxide, (Bowers of antimony trotoxide, (Bowers of antimony triviside   1303222   Arsenic disulfide   1303222   Arsenic chloride, arsenic	Antimony trichloride	10025010	Uniter of entimony	5.4.
Ansenic disulfide 1303328 Red areseis sulfide 1303328 Aresein estad analytic 1203328 Aresein estad analytic 1203329 Aresein estad est		7783564	Antimony fluoride	
Arsenic disulfide	Antimony trioxide	1309644	Diantimony trioxide, flowers of anti-	***************************************
Arsenic pentoxide. 1303282 Arsenic acide anhydride, arsenic oxide. 2017 1505.00. 2018. 201	Arsenic disulfide	1303328	Red arrente mifide : 'a(:	
Arsenic trichloride	Arsenic pentoxide	1303282	Arsenic acid anhydride, & arsenic	*****************
Arsenic trioxide	Arsenic trichloride	7784341	Arsenic chloride, arsenious chloride,	
Sarium cyanide	Arsenic trioxide	1327533	Arsenious acid. a arsenious oxide.	
Senzele	Arsenic trisulfide	1303339	Arsenious sulfide, yellow arsenic sul-	
Senzele	Barium cvanide	542621	THE PART OF THE PROPERTY OF THE PARTY OF THE	
Benzonitrile		71432	Cyclohexatriene, benzol	
Benzopitrile	Benzoic acid		Benzenecarboxylic acid, phenylfor-	***************************************
Benzy chloride	Benzonitrile	100470	Phenyl cyanide, cyanobenzene	***************************************
Benry   Chloride	Benzovi chloride		Benzenecarbonyl chloride	***************************************
Beryllum chloride				***************************************
Second			***************************************	***************************************
Second	Beryllium fluoride	7787497	······································	***************************************
13597994   1,2-benzsnedicarboxylic acid, dibutyl ester, dibutyl phthalate   123844   1,2-benzsnedicarboxylic acid, dibutyl ester, dibutyl phthalate   109739   1-aminobutane   109339   1-aminobut	Beryllium nitrate	7787555	Pate 121	
Butyl acetate		13597994	***************************************	*******************
Sec	-butyl phthalate	21 15 20	ester, dibutyl phthalate.	Jan 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sutyric acid	*		いっていまもと(MODAでん かっ <b>な</b> を搭封む ニール	sec 10540
Sec   1395284   Sec		Color and A	the throughout the control of the state of the	tert 54088
Sec	Buranine	·/ · · 109739		iso 7881
Butyric acid 107926 Butanoic acid, ethylacetic acid iso 7931 Cadmium bromide 7789426	TOOTH CONTRACT		The second secon	sec 51349
Butyric acid 107926 Butanoic acid, ethylacetic acid iso 7931 Cadmium bromide 7789426	Redeptor 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 1 th 4	sec 1395284
Cadmium bromide 7789426 Cadmium chloride 10108642 Calcium arsenate 7778441 Calcium arsenate 778441 Calcium carbide 75207 Carbide, acetylenogen 75207 Calcium chromate 13765190 Calcium chromate 75208 Calcium chrome 7	Cartery Commencer Commencer			
Cadmium bromide 7789426 Cadmium chloride 10108642 Calcium arsenate 7778441 Calcium arsenate 778041 Calcium carbide 75207 Carbide, acetylenogen 9ellow, geblin, yellow ultramarine.  Calcium cyanide 5204062 Calcium chromate 5204062 Calcium chromate 7778543 Calcium chromate 7778543 Calcium hypochlorite 7778543 Captan 133062 Carbaryl 63252 Carbaryl 75150 Carbon disulfide 75150 Carbon tetrachloride 75150 Carbon tetrachloride 75150 Carbon tetrachloride 7503 Chlorodane 75003 Chloroform 75003 Chloroform 75003 Chloroform 87603 Chloroform 87603 Chlorosulfonic acid 7790945 Chromic acetate 1066304 Chromic sulfate 10101538 Chromic sulfate 10101538 Chromic sulfate 10101538 Chromic sulfate 10101538 Chopaltous bromide 7698437 Cobaltous bromide 54183 Cobaltous sulfamate 14017415	Butyric acid		Butanoic acid, ethylacetic acid	
Cadmium chloride	Cadmium acetate			
Calcium arsenate 52740168 75207 Carbide, acetylenogen 213765190 Calcium chromate 13765190 Calcium chromate 13765190 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 592018 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 592018 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 6264062 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 7778543 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 6264062 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 7778543 Calcium chrome yellow, geblin, yello				
Calcium carbide 75207 Carbide, acetylenogen. Calcium chromate 13785190 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 592018 26264062 2			Triceleism.orthographe - 001	
Calcium chromate 13765190 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 592018 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 592018 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium hypochlorite 7778543 Captan 63262 Carbary 63252 Sevin 52606 Carbary 63252 Carbon disulfide 75150 Carbon bisuifide, dithiocarbonic anhydride.  Carbon tetrachloride 5623 Tetrachloromethaneaue Perchloromethane  Carbon tetrachloride 5623 Toxichlor, chlordan 75003 Chlorobenzene 108907 Monochlorobenzene benzene chloride trichloromethane 2921882 Chlorosulfonic acid 7190945 Sulfurie chlorohydrin 501058 Chromic acid 1086304 Chromic acid 11115745 Chromic acid 101538 Choaltous bromide 7889437 Cobalt formate 50415 Cobaltous sulfamate 10017415 Cobalt formate 50415 Cobalt format			11 ICAICIUIL OI MIORI SCILING	1 Cont. N. C. C. C.
Calcium chromate 13765190 Calcium chrome yellow, geblin, yellow ultramarine.  Calcium cyanide 26264062 Carbon decylbenzenesulfonate.  Calcium hypochlorite 7778543 Carbon decylbenzenesulfonate 1563662 Carbon disulfide 75150 Carbon disulfide 75150 Carbon tetrachloride 56235 Tetrachloromethane Perchloromethane Perchloromethane 75003 Chloroform 75003 Chloroform 75003 Chloroform 75003 Chlorosulfonic acid 7790845 Chromic acetate 10101538 Chromic acid 11115745 Chromic acid 11115745 Cobaltous bromide 7889437 Cobalt formate Cobaltous surfamate 14017415 Cobalt sulfamate Cobaltous sulfamate 14017415 Cobalt sulfamate Cobaltous sulfamate 14017415 Cobalt sulfamate Cobaltous sulfamate 14017415 Cobalt sulfamate			Carbide acetylenogen	2.012.015.05
Calcium cyanide			Calcium chrome yellow, geblin,	
Calcium   Calcium   Calcium   Calcium   Calcium   Calcium   Calcium   Calcium   Calcium   Captan   Captan   Carbaryl   Castan   Carbor   Carbaryl   Carbor	Calcium cvanide	592018		
Calcium hypochlorite			Hyan no.	
Captan	dodecylbenzenesulfonate.		1.241	The second secon
Carbofuran 1563662 Carbon disulfide 75150 Carbon bisulfide, dithiocarbonic anhydride. Carbon tetrachloride 56235 Carbon tetrachloride 56235 Carbon tetrachloride 56235 Carbon tetrachloride 75150 Carbon tetrachloride 56235 Carbon tetrachloride 75150 Carbon tetrachloride 76235 Chlorofune 75003 Chlorobenzene 108907 Chloroform 75003 Chloroperifos 2921882 Chlorosulfonic acid 7190945 Chromic acetate 1066304 Chromic acid 11115745 Chromic acid 11115745 Chromic sulfate 10049055 Cobaltous bromide 7189437 Cobalt formate 10041315 Cobalt form				
Carbon disulfide	Captan			
Carbon tetrachloride			Sevin	***************************************
Carbon tetrachloride			Carbon bisuifide, dithiocarbonic an-	**************************************
Chlorodane		56235	Tetrachloromethaneacce	***************************************
Thorain	38°		,	
108907   Monochlorobenzene benzene chloride	Chlordane		Toxichlor, chlordan	
Chloroform	Chlorine			
Cobaltous sulfamate   14017415   Cobalt sulfamate   14017415   C				
Transition   Tra				
Chromic acetate				
Chromic acid				
10101538			chromic anhydride, chromium triox-	
Chromous chloride	Through miles	10101599	ide.	
Cobaltous bromide 7789437 Cobalt bromide Cobaltous formate 544183 Cobalt formate 14017415 Cobalt sulfamate			***************************************	*****************
Cobaltous formate 544183 Cobalt formate Cobaltous sulfamate 14017415 Cobalt sulfamate				
Cobeltous sulfamate				
	Coumaphos	56724		

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#### TABLE 116.4A.—List of hazardous substances—Continued

Common name	CAS No.	ാരുടെ 🖟 Synonyms 🗵 പ്രാ	Isomers	CAS No.
Cresol	1319773	Cresylic acid	m	108394
ž.	a media esta	Hydroxytoluene	0	95487
		Sterre decions:	p	106445
Crotonaldehyde	4170303	stavra indonii 2-butenal 5780877 propyletw aldehyde: 9780002		,,,,
The same angular restaurant and the same statements of the same stat		propylene aldebyde: 97860901	अतिकासिक	<b>93</b> a na maleuri
Cupric acetate	142712.	Copper acetate, crystalised verdigris.	بأ لنستنطنسسس.	
Cupric acetoarsenite	a.e. 120020381	Copper acetoarsenite, copper ace-		*******************************
		tate arsenite, Paris green.		
Cupric chloride	7447394	Copper chloride		
Cupric nitrate	9401 <b>730</b> 7	Company and Intelligence Company		******************
Cupric oxxiste	7758087	Copper oxalste	· ····································	17:30
Curric cultate ammonisted	:~ : 10380207:	Ammonisted conner sulfate		
Cupric tertrate	815827	Copper tartrate	474	25.1.1.1
Cvanogen chloride	506774			
Cyclohexane	110827	Hexahydrobensene, hexamethylene.	1.171	
2,4-D acid	94757	hexanaphthene.;; . 2,4-dichlorophenoxyacetic acid		
2,4-D ester	94111:	x 2.4-dichlorophenoxyacetic acid ester		
Line and the second	9. <b>94</b> 791:	কলে কাইকুলোন সংগ্ৰহণ হালচাই। <b>৩</b> ৫% ব		3 3 38AC
	94804	Community of the con-		
And the second second second	1320189	Besself, I'm a training the St.		ef January
**************************************	1928387	(60)者に120年に1919年 - 1919年 - 128月1日 - 1919年 - 1		
And the second s	1928616			
***	1929733			
And the second second second second		- 1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (	· · · · · · · · · · · · · · · · · · ·	
and the second s	25168267		·····································	•
Service and the service of the servi	53467111		***************************************	
DDT		p.p'-DDT Dipofene, Dissitol, Basudin, Spec-		
Diazinon	993419	tracide	***************************************	***************
Dicambs	1918009	tracide. 2-methoxy-3,6-dichlorobensoic acid		
Dichlobenil	1194656			
Dichlone		Phygon, dichloronaphthouninone		
Dichlorobenzene				
ROBS ALV L	20021220	Di-chloricide	Para	108467
Dichloropropane	26638197	Propylene dichloride	1.1	78999
1.3881 612	5 53	# 8126 In 1840 State 1 (8 - \$1876) 8080 - 7 1730 St	1,2	78875
*			1,3	142289
Dichloropropene	26952238		1,3	S 542756
	and the same and a	order of transport of transport of the second of the secon	2,3	78886
Dichloropropene	8003198	(D-D mixture)	D . 1	
			*****************	
dichloropropane (mixture).	وبالمعافد التما	Vidden D		st in oddawi
2,2-Dichloropropionic acid	75990	Vidden D Dalapon	1000 c	o v vojeka) Sv
		D-D mixture  Viden D  Dalapon  2,2-dichlorovinyl dimethyl phos-		
2,2-Dichloropropionic scid Dichlorvos				
2,2-Dichloropropionic acid Dichlorvos Dieldrin				
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897	phate, Vapona. Alvit	•••••••••••••••••••••••••••••••••••••••	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine	60571 109897 124403 25154545 51285 (2,4-)	phate, Vapona. Alvit  Dinitrobenzol	m	99656 528296 100254 329718 573568
2,2-Dichloropropionic acid Dichlorvos Dieldrin	60571 109897 124403 25154545 51285 (2,4-)	phate, Vapona. Alvit  Dinitrobenzol	m	99656 528296 100254 329718 573568
2,2-Dichloropropionic acid Dichlorvos Dieldrin	60571 109897 124403 25154545 51285 (2,4-)	phate, Vapona.  Alvit  Dinitrobenzol  Aldifen	m	***************************************
2,2-Dichloropropionic acid Dichlorvos Dieldrin	60571 109897 124403 25154545 51285 (2,4-)	phate, Vapona. Alvit  Dinitrobenzol.  Aldifen	m- 0- (2,6-)	99655 528290 100254 329716 573566 121142 696207
2.2-Dichloropropionic acid Dichlorvos Dieldrin	60571 109897 124403 25154545 51285 (2,4-) 25321146	phate, Vapona.  Alvit  Dinitrobenzol  Aldifen  DNT	m	99650 528290 10025- 329711 573561 12114- 606207-
2.2-Dichloropropionic acid Dichlorvos Dieldrin	60571 109897 124403 25154545 51285 (2,4-) 25321146	Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibro-	m	99650 528290 10025- 329711 573561 12114- 606207-
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154645 51285 (2,4-) 25321146 85007 2764729	Dinitrobenzol  Aldifen  DINT  Aquacide Dextrone, Regione, Diquat dibromide	m- 0- (2,6-)	99656 528290 100255 329718 573566 121142 606203
2.2-Dichloropropionic acid Dichlorvos  Dieldrin	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729	Dinitrobenzol  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston	m- 0- (2,5-)	99650 528290 10025- 329711 573561 1211-5- 666201 815-91-
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330641	Dinitrobenzol  Aldifen  DNT  Aquacide Dextrons, Regione, Diquat dibromide, Di-syston DCMU, DMU	m	99650 528290 100254 329711 573566 121142 666203
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729	Dinitrobenzol  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston	m	99650 528290 100254 329711 573566 121142 666203
2.2-Dichloropropionic acid Dichlorvos	60871 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870	Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide. Disyston DCMU, DMU	m- 0- (2,6-)	99655 528290 100255 329711 573566 121142 606203
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870	Dinitrobenzol  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan	m	99650 528290 100254 329711 573566 121142 606207
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208	Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269	m- 0- (2,6-) (2,6-) 2,4 2,6 3,4	99655 528290 100254 329711 573568 121142 6062073
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208	Advitate, Vapona.  Alvit  Dinitrobenzol.  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide	m- 0- (2,5-) (2,6-) 2,4 2,6 3,4	99655 528290 100254 329711 573568 121142 606207 810214
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269  chloropropylene oxide Nialate, ethyl methylene, phosphor-	m- 0- (2,5-) (2,6-) 2,4 2,6 3,4	99655 528290 100254 329711 573568 121142 606207 810214
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122	Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269  chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate.	m	99650 528290 100254 329711 573566 121142 606207
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122	Addisen  Aduscide Destrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane	m- 0- (2,6-) (2,6-) 2,4 2,6 3,4	99655 528290 100254 329711 573568 121142 6662073
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  DNT  Aquacide Dextrone, Regione, Diquat dibromide, Disyston DCMU, DMU  Thiodan  Mendrin, Compound 269  Achioropropylene oxide Niaiste, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane.	m- 0- (2,6-)	99656 528290 100256 329711 573566 121142 606202 814212
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122	Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269  chloropropylene oxide Nislate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedini-	m- 0- (2,6-)	99656 528290 100256 329711 573566 121142 606202 814212
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Adisen  Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (athylenedinitrilo)-tetraacetic acid.	m- 0- (2,6-)	99655 528290 100254 329711 573560 121142 666227 819991
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dextrone, Regione, Diquat dibromide.  Di-syston  DCMU, DMU  Thiodan  Mendrin, Compound 269  chloropropylene oxide  Nialate, ethyl methylene, phosphorodithioate.  Phenylethane  1,2-diaminoethane  Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid.  1,2-dibromoethane	m- 0- (2,6-)	99655 528290 100254 329711 573560 121142 666227 819991
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Adisen  Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (athylenedinitrilo)-tetraacetic acid.	m- 0- (2,6-)	99655 528290 100255 329711 573566 121142 666207
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Dextrone, Regione, Diquat dibromide, Di-syston  DCMU, DMU  Thiodan  Mendrin, Compound 269  chloropropylene oxide  chloropropylene oxide  Nialate, ethyl methylene, phosphorodithioate.  Phenylethane 1,2-diaminoethane  Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid 1,2-dibromoethane acetylene dibromide	m- 0- (2,6-)	99655 528290 100255 329711 573566 121142 666207
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Advit.  Dinitrobenzol.  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetrascetic acid. 1,2-dibromoethane acetylene dibromide sym-dibromoethylene	m- 0- (2,6-) (2,6-) 2,4 2,6 3,4	99655 528290 100254 329711 573568 121142 6062073 510484
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Advit.  Dinitrobenzol.  Advit.  Aquacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan  Mendrin, Compound 269  chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid. 1,2-dibromoethane acetylene dibromide sym-dibromoethylene 1,2-dichloroethane	m- 0- (2,5-)	99650 528290 100254 \$29718 \$73568 121144 696207
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122 100414 107153 60004	Dinitrobenzol  Aldifen  Dinitrobenzol  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269  chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid. 1,2-dibromoethane acetylene dibromide sym-dibromoethylene 1,2-dichloroethane 1,2-dichloroethane 1,2-dichloroethane 1,2-dichloroethane 1,2-dichloroethane 1,2-dichloroethane	m- 0- (2,6-) (2,6-) 2,4 2,6 3,4	99656 528290 100255 329711 573566 121142 696207
2.2-Dichloropropionic acid Dichlorvos	60671 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 106898 563122 100414 107153 60004 106934	Dinitrobenzol  Aldifen  Dinitrobenzol  Aduacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane 1,2-diaminoethane detico-tetracetic acid. 1,2-dibromoethane actylene dibromide sym-dibromoethane sym-dibromoethane 1,2-dichloroethane 1,2-dichloroethane Ammonium ferric citrate Ammonium ferric citrate Ammonium ferric citrate	m- 0- (2,6-) 2,4 2,6 3,4	99655 528290 100255 329711 573566 121142 666207
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122 100414 107153 80004 106934	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Advit.  Aquacide Dextrone, Regione, Diquat dibromide.  Di-syston DCMU, DMU  Thiodan  Mendrin, Compound 269  -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid. 1,2-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane sym-dibromouthylene 1,2-dichloroethane	m- 0- (2,6-)	99655 528290 100255 329711 573566 121142 606203 513213
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122 100414 107153 80004 106934 107062 1185575 2944674 7705080 7733508	Advit.  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dinitrobenzol.  Aldifen  Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan  Mendrin, Compound 269  chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetraacetic acid. 1,2-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane sym-bichloroethane sym-bichloroethane Ammonium ferric citrate Ammonium ferric oxalate  Flores martia, iron trichloride	m- 0- (2,6-) 2,4 2,6 3,4	99656 528290 100254 329711 573566 121142 606203 514311
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27178870 115297 72208 106898 563122 100414 107153 60004 106934 107062 1185575 2944674 55488874 7705080 7783508	Dinitrobenzol  Aduacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane 1,2-dibromoethane acetylene dibromide sym-dibromoethane 1,2-dichloroethane 1,2-dichloroethane 1,2-dichloroethane Ammonium ferric citrate Ammonium ferric citrate Ammonium ferric oxalate  Fiores martis, iron trichloride	(2,6-)	99655 528290 100254 329711 573560 121142 6662073 519391
2.2-Dichloropropionic acid Dichlorvos	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122 100414 107153 80004 106934 107062 1185575 2944674 7705080 7733508	Advit.  Dinitrobenzol.  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetrascetic acid. 1,2-dibromoethylene sym-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane Ammonium ferric citrate Ammonium ferric citrate Ammonium ferric oxalate  Flores martis, iron trichloride  Iron nitrate Ferric persulfate, ferric sesquisul-	(2,6-)	99655 528290 100254 329711 573560 121142 6662073 519391
2.2-Dichloropropionic acid Dichlorvos	60871 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27176870 115297 72208 106898 563122 100414 107153 60004 107153 107062 1185575 2944674 7705080 7783508 10421484 10028225	Dinitrobenzol  Aduacide Dextrone, Regione, Diquat dibromide. Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1.2-diaminoethane 1.2-diaminoethane dibromide sym-dibromoethane actylene dibromide sym-dibromoethane 1.2-dichloroethane 1.3-dichloroethane Ammonium ferric citrate Ammonium ferric citrate Fiores martis, iron trichloride Iron nitrate Ferric persulfate, ferric sesquisul-	m- 0- (2,6-)	99656 528290 100254 329711 573560 121142 6062073 519997
2.2-Dichloropropionic acid Dichlorvos  Dieldrin	60571 109897 124403 25154545 51285 (2,4-) 25321146 85007 2764729 298044 330541 27178870 115297 72208 106898 563122 100414 107153 60004 106934 107062 1185575 2944674 55488874 7705080 7783508	Advit.  Dinitrobenzol.  Aldifen  Aquacide Dextrone, Regione, Diquat dibromide, Di-syston DCMU, DMU  Thiodan Mendrin, Compound 269 -chloropropylene oxide Nialate, ethyl methylene, phosphorodithioate. Phenylethane 1,2-diaminoethane Edetic acid, Havidote, (ethylenedinitrilo)-tetrascetic acid. 1,2-dibromoethylene sym-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane sym-dibromoethylene 1,2-dichloroethane Ammonium ferric citrate Ammonium ferric citrate Ammonium ferric oxalate  Flores martis, iron trichloride  Iron nitrate Ferric persulfate, ferric sesquisul-	(2,6-)	99656 528296 100254 329711 573566 121142 6662073 519397

#### TABLE 116.4A.—List of hazardous substances—Continued

Formaldehyde 50000 Methyl aldehyde, methanal, forma limber of the state of the stat	Section 1
Formaldehyde	Section 1
Formaldehyde	Control of the contro
Formic acid 64186 Methanoic acid 7440.  Furnaric acid 110178 Trans-butenediolo scid, trans-1,2 ethylenedicarboxylic acid, boletic acid, allomaleic acid, cid, allomaleic acid, cid, allomaleic acid, cid, allomaleic acid, cid, allomaleic acid, allomaleic acid, cid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, cid, cid, cid, cid, cid, cid, cid,	200031 200031 200031 200031 200031 200031
thylenedicarboxylic acid, boletic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, acid, allomaleic acid, acid	22.0.000.000 22.0.000.000 20.0.000.000 20.0.000.00
thylenedicarboxylic acid, boletic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, acid, allomaleic acid, acid	22.0.000.000 22.0.000.000 20.0.000.000 20.0.000.00
thylenedicarboxylic acid, boletic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, allomaleic acid, acid, allomaleic acid, acid	22.0.000.000 22.0.000.000 20.0.000.000 20.0.000.00
Recid allomaleic acid.  Guthion 85500 Gusathion, axinphos-methyl.  Heptachlor. 76448  Heptachlor 76448  Heydrochloric acid 7647010  Hydrochloric acid 7664393  Hydrochloric acid 7664393  Hydrocynocyclopentadiene 7864393  Hydrocynocyclopentadiene	
Purfural 98011 2-furaldehyde, pyromucic aldehyde Guthion 86500 Gusthion, axinphos-methyl Heptachlor. 76448 Velsicol-104, Drinox, Heptagran Hickachlorocyclopentadiene 77474 Perchlorocyclopentadiene Hydrochloric acid 7664393 Fluohydric acid Hydrogen cyanide 7664393 Fluohydric acid Hydrogen sulfide Hydrogen sulfide Hydrogen sulfide  78798 2-methyl-1,3-butadiene Hydrogensulfonate Kelthane Lesthane  115322 Di(p-chlorophenyl) trichloromethylcarbinol, DTMC, dioofol.  Kepone Lesd acetate 201042 Sugar of lead Lesd chloride 7784409 778450	
Gushion skiphos methyl Heptachlor (1948) Velsicol-104, Drinox, Heptagran (1948) Velsicol-104, Drinox, Heptagran (1948) Velsicol-104, Drinox, Heptagran (1947) H	
Heptachlor	
Hexachlorocyclopentadiene 77444 Perchlorocyclopentadiene 7744010 Hydrogen chloride, muriatic acid 7644303 Fluohydric acid 764303 Fluohydric acid 174908 Hydrogen cyanide 17490	
Hydrogen cyanide	
Hydrogen cyanide	
Tissue	5.00
Tissue	5.00
Time	
Time	
trichloromethylcarbinol, DTMC, dicofol.  Kepone	
Chiordecone   1,1a,3,a,4,5,5,a,5b,6-de   Chiordecone   1,1a,3,a,4,5,5,a,5b,6-de   Cachiorocctahydro-1,3,4-metheno   2H-cyclobuta(cd)pentalen-2-one   Sugar of lead   Sugar of lead   Sugar of lead   Sugar of lead   Chiordecone   1,2a,3,a,4,5,5,5a,5b,6-de   Cachiorocctahydro-1,3,4-metheno   2H-cyclobuta(cd)pentalen-2-one   Sugar of lead   Sugar of lead   Cachiorocctahydro-1,3,4-metheno   2H-cyclobuta(cd)pentalen-2-one   Sugar of lead   Sugar o	
Cachlorooctahydro-1.3.4-metheno- 2H-cyclobuta(cd)pentalen-2-one.   Sugar of lead	
Carry   Carr	
Lead acetate	
Lead arsenate	
Lead fluoroste	
Lead fluoroste	
Lead fluoroste	
Lead filooride	
Lead fluoride	
Lead iodide	
Lead sulfate	
1072351   1072	
1072351	4
2652592	
Lead sulfate	
Lead sulfide	
Lead thiocyanate 592870 Lead sulfocyanate 58899 Gamma-BHC, gamma-bensene hex- achloride achloride	
Lindane S8899 Camma-Bett, gamma-censene nex-	
* Harring absences 1/20/202	
14307358	1000
Maleic acid 110167 Cis-butenedioic acid, cis-1,2- ethylenedicarboxylic acid, toxilic	•••••
Maleic anhydride	**********
Vercaptedimethur 2032657 Mesurol	
Mercuric cyanide 592041 Mercury cyanide Mercury pernitrate 10045940 Mercury nitrate, mercury pernitrate	
Mercury nurate	
Mercuric thiocyanate	
focyanate, mercuric sulfocyanide.	*********
Manuscous mitrata 7782867	
Mercury protonitrate	
Methoxychlor	
Methyl mercaptan	
methyl sulfhydrate, thiomethyl al-	
cohol.	
Methyl methacrylate 80626 Methacrylic acid methyl ester,	
methyl-2-methyl-2-propenoate.	
Methyl parathion 298000 Nitrox-80	
Mevinphos 7786347 Phoedrin	
Mexacarbate 315184 Zectran	***********
Monoethylamine	
Monomethylamine 74895 Methylamine, aminomethane	**********
Naled 300765 Dibrom parkthalin	
Naphthalene	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Nickel ammonium sulfate	·····
7718549	

TABLE 116.4A.—List of hazardous substances—Continued

Common name	CAS No.	Synonyms	Isomers	CAS No.
Nickel hydroxide	12054487	Nickelous hydroxide		
Vickel nitrate	14216752	***************************************	***************	************
Nickel sulfate	7786814	Nickélous sulfate		
Nitric acid	7697372	Aqua fortis	-	***************************************
Nitrobenzene	98953	Nitrobenzol, oil of mirbane	***************************************	
Nitrogen dioxide	10102440	Nitrogen tetraoxide	********	***************************************
Nitrophenol (mixed)	25154556		m	55484
And oblicion (mileon) amount		en de la companya del companya de la companya del companya de la c	o	8875
	٠.		D	10002
Nitrototuene	1321126		Ortho	8872
		Paraform, Formagene, Triformol,	Meta	9908
			Lara	3000
Paraformaldehyde	7x 15 79	polymerized formaldehyde, polyox-	100000	. 49
	20000	ymethylene, DNTP, Niran		
Parathion Pentachlorophenol		PCP. Penta		
renuschiorophenom	108952			
Phenol	100804	droxybensene, oxybensene.	***************************************	***************************************
T	75445	Dinhorana serbonyl chlorida		
Phosgene	10220	chloroformyl chloride.	***************************************	
	7664382	Orthophosphoric acid		
Phosphoric scid	7723140	Black phosphorus, red phosphorus,	*****************	***************************************
Phosphorus	1723140	white phosphorus, yellow phosphorus.		***************************************
Phosphorus oxychloride	10025873	Phosphoryl chloride, phosphorus		**********
	1314803	chloride. Phosphoric sulfide, thiophosphoric		
Phosphorus pentasulfide	7719122	anhydride, phosphorus persulfide.  Phosphorous chloride		
Phosphorus trichloride	7719122 1336363	PCB, Aroclor, polychlorinated di-	******************	***************************************
Polychorinated biphenyla	1990909	phenyls.	***************************************	*****************
	P#04410	httettae		` .
Potassium arsenate	7784410	Potassium metaarsenite	*******	***************************************
Potassium arsenite	10124502			
Potassium bichromate	7778509	Potessium dichromate	***************	***************************************
Potassium chromate	7789006	***************************************	***************************************	***************************************
Potassium cyanide	151508	The state of the s	***************************************	***************************************
Potassium hydroxide	1310583	potassa.		
Potassium permanganate	7722647	Chameleon mineral	***************************************	***************************************
Propargite	2312358	Onite		
Propionic acid	79094	Propanoic acid, methylacetic acid,		
Propionie anhydride	123626	ethylformic acid.  Propanoic anhydride, methylacetic anhydride.	***************************************	***************************************
Propylene oxide	75569	Propene oxide		
	121299	Pyrethrin I		
Pyrethrins	121211	Pyrethrin II		************************
Quinoline	91225	1-benzazine, benzo(b)pyridine, leuo-		*****************
•	108463	coline, chinoleine, leucol.		
Resorcinol		hydroxybensene.		
Selenium oxide	7446084		***************************************	***************************************
Silver nitrate	7761838	Nitric acid silver (1+) salt	***************************************	
Cardina	7440235	lunar caustic Natrium		
SodiumSodium arsenate	7440235 7631892	Disodium arsenate	***************************************	***************************************
Sodium arsenate	7631892			
Sodium arsenite	10588019			
Sodium bifluoride	1333831	MANAGEMENT OF THE PROPERTY OF		
Sodium bisulfite	7631905			
Sodium chromate	7775113			
Sodium chromate	143339	***************************************		
Sodium dodecylbenzene-	25155300			
sulfonate.	7601404	Villiaumite		, '
Sodium fluoride	7681494 16721805	Villiaumite	***************************************	***************************************
Sodium hydrosulfide Sodium hydroxide	1310732	Caustic soda, soda lye, sodium hy-		
Bodium hypochlorite	7681529			
•	10022705	***************************************		
Sodium methylate	124414	Sodium methoxide		
Sodium nitrite	7632000	***************************************		
Sodium phosphate, dibasic	7558794	***************************************		
	10039324	***************************************		
	10028247	***************************************	***************************************	
•	10140655	24.04.04.04.04.04.04.04.04.04.04.04.04.04		, , <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
Sodium phosphate, tribasic.	7785844	***************************************		
	7601549	444		
	10101890			
	TATATORA			
	10361894	######################################	***************************************	
			***************************************	. ,

#### TABLE-116.4A.—List of hazardous substances—Continued

Common name	CAS No.	Synonyma	Isomers	CAS No.
odium selenite	10102188	***************************************		
	7782823	***************************************	****************	***************
trontium chromate	7789062 57249			
strychnine	100425	Vinylbenzene, phenylethylene,		******************
styrene	100429	styrol, styrolene, cinnamene, cinnamol.	•••••••••••••••••••••••••••••••••••••••	*****************
fulfuric acid	7664939	Oil of vitriol, oleum		
ulfur monochloride	12771083	Sulfur chloride		
,4,5-T acid	93765		***************************************	***************************************
.4.5-T amines	6369966	Acetic acid (2,4,5-trichlorophenoxy)- compound with N,N-dimethylmeth-		
7		anamine (1:1).		
	6369977	Acetic acid (2,4,5-trichlorophenoxy)- compound with N-methylmethana		
	1319728	mine (1:1). Acetic acid (2,4,5-trichlorophenoxy)-		
		compound with 1-amino-2-propanol (1:1).		
	3813147	Acetic acid (2,4.5-trichlorophenoxy)- compound with 2,2,2 -nitrilotris [ethanol] (1:1).		
,4,5-T esters	2545597		*********	*******
, 1, 0-1 CS(C1S	93798			
	61792072		****************	***************************************
	1928478	***************************************		***************************************
	25168154	***************************************	***************************************	***************************************
.4.5-T salts		Acetic acid (2.4.5-trichlorophenoxy)-		
,T, # 1 351100	2.5	sodium salt.		
4.5-TP acid	•••	Propanoic acid 2-(2,4,5-trichlorophenoxy).		
2,4,5-TP esters,		Propanoic acid, 2-(2,4,5-trichloro- phenoxy)-, isooctyl ester		
TDE	72548	DDD	***************	***************************************
etraethyl lead	78002	Lead tetraethyl, TEL	***************************************	*****************
etraethyl pyrophosphate	107493	TEPP	***************************************	***************************************
hallium sullate	10031591	•		
Coluene	7446186 <b>108883</b>	Toluol, methylbenzene, phenyl- methane, Methacide.	***************************************	***************************************
	8001352	Camphechlor		
Toxaphene		Ethylana trichlorida		
Crichloroethylene	79016	Dipterex	***************************************	
Trichlorfon	52686	Dibotex		
	25167822	Columnael, Dowicide 2 or 28, Omal,	(2.3.4-)	1595066
Prichlorophenol	20101022	Phenachier.	(2,3,5-)	933788
		Photocrat.		933755
			(2,3,6-)	
9			(2,4,5-)	95954
			(2,4,6-)	88062
			(3,4,5-)	609198
Priethanolamine	27323417	***************************************	***************************************	**************
dodecylbenzenesulfonate.				
Triethylamine	121448	***************************************	************	***************************************
Trimethylamine	75503	TMA	4444444444	
Uranyl acetate	541093	***************************************	**************	
Uranyl nitrate	10102064	***************************************	***********	
	36478769		************	***************************************
Vanadium pentoxide	1314621	Vanadic anhydride, vanadic acid an-	***************************************	***************************************
•		hydride.		<b>Q1</b>
Vanadyl sulfate	27774136	Vanadic sulfate, vanadium sulfate	***************************************	. VI
Vinyl acetate	108054		***************************************	
Vinylidene chloride	75754	1,1-dichloroethylene		
A INAMEGEE CHIEF GETTING	, 10004	t 1 dichtoropthane		
		1,1-dichloroethene	m.	100
		Dimethylbensene	m·	. 1083 954
			0	. 954
Xylene (mixed)	1330207	DimethylbenseneXylol	m p	. 954 . 1064
Xylene (mixed)	1330207	Dimethylbensene	o	. 954 . 1064
Xylene (mixed)	1330207	Dimethylbensene  Zylol  Dimethylphenol, hydroxydimethylbenzene.	P	. 95
Xylene (mixed)  Xylenol  Zinc acetate	1330207 1300716	Dimethylbensene  Zylol  Dimethylphenol, hydroxydimethylbenzene.	p	. 95-
Xylene (mixed)  Xylenol  Zinc acetate	1330207 1300716 557346	Dimethylbensene  Xylol  Dimethylphenol, hydroxydimethylbenzene.	P	. 954
Xylene (mixed)  Xylenol  Zinc acetate	1330207 1300716 557346 14639975 14639986 52628258	Dimethylphenol, hydroxydimethylphenoe.	P	954
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076	Dimethylbensene  Xylol  Dimethylphenol, hydroxydimethylbensene.	<b>O</b>	95-106-
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 7699458	Dimethylbensene Xylol  Dimethylphenol, hydroxydimethylbenzene.	0 P	95-106-
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 7699458 3486359	Dimethylbensene Xylol  Dimethylphenol, hydroxydimethylbenzene.	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 1322076 7699458 3486359 7646857	Dimethylphenol, hydroxydimethylphenzene.  Butter of zinc.	O	95-108-
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 7699458 3486359 7646857 557211	Dimethylbensene  Xylol  Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc.	O	95-
Xylene (mixed)	1330207 1300716 557346 14639975 14639976 52628258 1332076 7699458 3486359 7646857 557211 7783495	Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc.	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639985 1332076 7699458 3486359 7646857 557211 7783495 557415	Dimethylphenol, hydroxydimethylphensene.  Butter of zinc	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 7699458 3486359 7646857 557211 7783495 557415	Dimethylbensene Xylol  Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc	O	95-
Xylene (mixed)	1330207 1300716 557346 14639975 14639975 5628258 1332076 7699458 3486359 7646857 557211 7783495 557415 7779864	Dimethylphenol, hydroxydimethylphenoe.  Butter of zinc.	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639985 1332076 7699458 3486359 7646857 557211 7783495 557415 7779866 127822	Dimethylbensene  Xylol  Dimethylphenol, hydroxydimethylbensene.  Butter of zinc  Zinc sulfocarbolate	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 3486359 7648557 557415 7779844 7779846 127822 1314847	Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc.  Zinc sulfocarbolate	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639976 7699458 3486359 7646857 557415 7779864 7779864 127822 1314847 16271719	Dimethylbensene  Kylol  Dimethylphenol, hydroxydimethylbensene.  Butter of zinc  Zinc sulfocarbolate  Zinc fluorsilicate	O	95-1064
Xylene (mixed)	1330207 1300716 557346 14639975 14639986 52628258 1332076 3486359 7648557 557415 7779844 7779846 127822 1314847	Dimethylbensene  Kylol  Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc  Zinc sulfocarbolate  Zinc fluorsilicate  White vitriol, zinc vitriol, white copperas.	O-	95-1064
Xylene (mixed)	1330207 1300716 557346 14639976 14639976 132076 7699458 3486359 7646857 557415 7779864 7779866 127822 1314847	Dimethylbensene  Kylol  Dimethylphenol, hydroxydimethylbensene.  Butter of zinc  Zinc sulfocarbolate  Zinc fluorsilicate  White vitriol, zinc vitriol, white copperas.	O- D-	95-1064
Xylene (mixed)  Xylenol  Zinc acetate  Zinc ammonium chloride  Zinc borate  Zinc bromide  Zinc carbonate  Zinc chloride  Zinc cyanide  Zinc fluoride  Zinc formate  Zinc hydrosulfite  Zinc nitrate  Zinc phenolsulfonate  Zinc phosphide  Zinc sliteofluoride	1330207 1300716 557346 14639975 14639976 7699458 3486359 7646857 557415 7779864 7779864 127822 1314847 16271719	Dimethylbensene  Kylol  Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc  Zinc sulfocarbolate  Zinc fluorsilicate  White vitriol, zinc vitriol, white copperas.	O- D-	95-1064
Xylene (mixed)	1330207  1300716  557346 14639976 14639976 132076 1799458 1332076 17793495 557415 17779864 177986 127822 1314847 16271719 17733020 13746899 16923958	Dimethylbensene  Xylol  Dimethylphenol, hydroxydimethylbenzene.  Butter of zinc  Zinc sulfocarbolate  Zinc fluorsilicate  White vitriol, zinc vitriol, white copperas.	O-	95-1064
Xylene (mixed)	1330207  1300716  557346 14639976 14639976 7699458 1332076 7699458 2486359 7646857 557415 7779864 7779866 127822 1314847 16271719 7733020	Dimethylphenol, hydroxydimethylphenol, hydroxydimethylphenol, hydroxydimethylphenzene.  Butter of zinc.  Zinc sulfocarbolate  Zinc fluorsilicate  White vitriol, zinc vitriol, white copperas.	O- D-	95-1064

[116.4A table amended by 44 FR 65400, November 13, 1979; corrected by 44 FR 66602, November 20, 1979]

TABLE 116.4B.—List of Hazardous Substances By CAS Number		Resorcinol Toluene	1333831 1336216	Sodium bifluoride Ammonium hydroxide
Substances By CAS Number CAS No. and common name 00000 Formaldehyde 0223 DDT 1285 2,4-Dinitrophenol 2886 Trichlorfon 6382 Parathion 6724 Coumaphos 7749 Chlordane 8889 Lindane	108907	Chlorobenzene	1336363	Polychlorinated bipheny
0000 Formaldehyde	108952	Phenol	1338245	Naphthenic acid
0293 DDT	109739	n-Butylamine	1341497	Ammonium bifluoride
1285 2,4-Dinitrophenol	109897	Diethylamine	1762954	Ammonium thiocyanate
2086 Trichlorion	110167	Maleic acid	1863634	Ammonium benzoate
0302 Paratilion 6724 Coumenhos	110110	iso-Butyl acetate Cyclohexane Endosulfan Kelthane Dichlone Pyrethrin Tyrethrin Triethylamine Malathlon	1918009	Dicamba 2,4-D esters
7249 Strychnine	110190	Cycloherene	1920307	2,4-D esters 2.4.5-T ester
7749 Chlordane	115297	Endomilian	1020210	2,4,5-1 ester 2,4-D ester
8899 Lindane	115322	Kelthane	1929733	2.4-D ester
vvva Editylenemannnetetrakcene acio	117806	Dichlone	2545597	2,4,5-T ester
(EDTA) 0571 Dieldrin 2533 Aniline 2737 Dichlorvos 3252 Carbaryl 4186 Formic acid 4197 Acetic acid 5550 Benzoic acid 7663 Chloroform 1432 Benzene 2208 Endrin 22435 Methoxychlor 2548 TDE	121211	Pyrethrin	2764729	
0571 Dieldrin	121299	Pyrethrin · · ·	2921882	Chlorpyrifos
2533 Aniline 2737 Dichloryos	121448	Triethylamine	2944674	Ferric ammonium oxalate
2131 Dictioryos	121755	Malathion	2971382	2,4-D ester
4186 Formic soid		Propionic anhydride n-Butyl acetate		Ammonium citrate, dibas
4197 Acetic acid	122002	iso-Amyl acetate	3104292	Ammonium tartrate
5850 Benzoic acid	124403	Dimethylemine	3408350	Cupric nitrate Zinc carbonate
7663 Chloroform	124414	Sodium methylate	5803883	Cupric oxalate
1432 Benzene	127822	Zinc phenolsulfonate	5972736	Ammonium oxalate
2208 Endrin	133062	Captan	6009707	Ammonium oxalate
2435 Methoxychlor	142712	Cupric acetate	6369966	2.4.5-T ester
2548 TDE	143339	Sodium cyanide	7428480	Lead stearate
2435 Methoxychlor 2548 TDE 4895 Monomethylamine 4908 Hydrogen cyanide 4931 Methyl mercaptan 5047 Monoethylamine 5047 Carbon disulfide 5207 Calcium carbide 5445 Phosgene 5745 Trimethylamine 5649 tert-Butylamine 5649 tert-Butylamine 5648 Acetone cyanohydrin 5990 2,2-Dichloropropionic acid 6448 Heptachlor 88102 Tetraethyl lead 8795 Isoprene 8819 iso-Butylamine 9094 Propionic acid 9312 iso-Butyric acid 9316 Acetyl chloride 9626 Methyl methacrylate 9606 Guthion 7866 Pentachlorophenol	151508	n-Butyl acetate iso-Amyl acetate Dimethylamine Sodium methylate Zinc phenolsulfonate Captan Cupric acetate Sodium cyanide Potassium cyanide Methyl parathion Disulfoten Naled Lead acetate Aldrin Mexacarbate 2,5-Dinitrophenol Diuron Diazinon Cyanogen chloride Ammonium carbonate Acetyl bromide sec-Butylamine o-Dinitrobenzene tert-Butyl acetate Uranyl acetate Barium cyanide Cadmium acetate	7440235	Sodium
4908 Hydrogen cyanide	298000	Methyl parathion	7446084	Selenium oxide
1931 Methyi mercapian 1047 Monosthylomina	298044	Disulfoten	7446142	Lead sulfate
5070 Acetaldebude	300765	Naled	7447394	Cupric chloride
5010 Accumucnyuc 5150 Cerhon digulfide	301042	Lead acetate	7558794	Sodium phosphate, dibas
5207 Calcium carbide	309002	Aldrin	7601549	
5445 Phosgene	220715	2 6 Dinitrophenol	7031892	Sodium arsenate
5503 Trimethylamine	349110	Diuron *	7031900	Sodium bisulfite Sodium nitrite
5649 tert-Butylamine	333415	Diazinon	7845252	Lead arsenate
5865 Acetone cyanohydrin	506774	Cyanogen chloride	7848857	Zinc chloride
5990 2,2-Dichloropropionic acid	506876	Ammonium carbonate	7647010	Hydrochloric acid
8448 Heptachlor	506967	Acetyl bromide	7647189	Antimony pentachloride
8002 Tetraethyl lead	513495	sec-Butylamine	7664382	Phosphoric acid
8795 Isoprene	528290	o-Dinitrobenzene	7664393	Hydrofluoric acid
8819 ISO-Butylamine	540885	tert-Butyl acetate	7664417	Ammonia
9094 Propionic acid	541093	Uranyl acetate	7664939	Sulfuric acid
0387 Acetul chloride	542621	Barium cyanide	7681494	Sodium fluoride
0626 Methyl methacrylate	543908	Cadmium acetate	7681529	Sodium hypochlorite
5007 Diquat	544183	Cobaltous formate m-Nkrophenol		Nitric acid
6500 Guthion	55791.1	Zinc genide		Zinc bromide Ferric chloride
7865 Pentachlorophenol	55734R	Zinc acetate		Nickel chloride
8755 o-Nitrophenol	557415	Zina formata		Phosphorus trichloride
1203 Naphthalene	563122	Ethion		Ferrous sulfate
1225 Quinoline	573568	2,6-Dinitrophenol	7722647	Potassium permanganate
3765 2,4,5-T acid	592018	Calcium cyanide	7723140	Phosphorus
3798 2,4,5-T ester 4111 2,4-D ester	592041	Mercuric cyanide	7733020	
4757 2.4-D estel	592858	Mercuric thiocyanate	7758294	Sodium phosphate, tribas
4791 2,4-D ester	592870	Lead thiocyanate	7758943	Ferrous chloride
4804 2.4-D Butyl ester	625161	tert-Amyl acetate	7758954	Lead chloride
5476 o-Xylene		sec-Amyl acetate	7758987	
5487 o-Cresol		n-Amyl acetate	7773060	
8011 Furfural		Ammonium acetate		Sodium chromate
8884 Benzoyl chloride		Cupric tartrate		Calcium arsenate Potassium bichromate
8953 Nitrobenzene		Chromic acetate		Calcium hypochlorite
9650 m-Dinitrobenzone	1066337		7779884	Zinc hydrosulfite
00027 p-Nitrophenol		Lead stearate		Zinc nitrate
00254 p-Dinitrobenze_ie	-	Ammonium carbamate		Chlorine
00414 Ethylbenzene 00425 Styrene	1185575	Ferric ammonium citrate		Ferrous sulfate
00425 Styrene 00447 Benzyl chloride	1194656	Dichlobenil	7782823	Sodium selenite
00441 Benzyl chloride 00470 Benzonitrile		Xylenol	7782867	Mercurous nitrate
05464 sec-Butyl acetate	1303282	Arsenic pentoxide		Ammonium thiosulfate
06423 p-Xylene	1303328	Arsenic disulfide		Mercuric sulfate
06445 p-Cresol	1303339	Arsenic trisulfide		Lead fluoride
07028 Acrolein	1309644	Antimony trioxide		Zinc fluoride
07051 Allyl chloride		Potassium hydroxide		Ferric fluoride
07131 Acrylonitrile		Sodium hydroxide		Antimony trifluoride
07153 Ethylenediamine		Vanadium pentoxide		Arsenic trichloride Lead arsenate
07186 Allyl alcohol		Phosphorus pentasulfide		Potassium arsenate
07493 Tetraethyl pyrophosphate		Zinc phosphide		Sodium arsenite
07926 n-Butyric acid		Lead sulfide		Sodium phosphate, triba
08054 Vinyl acetate		Cresol (mixed)	7786347	Mevinphos
08247 Acetic anhydride		2,4-D ester		Nickel sulfate
08316 Maleic anhydride 08383 m-Xylene	1327533	Arsenic trioxide		Beryllium chloride
		Xylene		Beryllium fluoride
08394 m-Cresol		Zinc borate	1181491	Derymum muoride

[Sec. 116.4B]

7787555	Beryllium nitrate		Potassium arsenite	14644612	Zircontum sulfate
7788989	Ammonium chromate	10124568	Sodium phosphate, tribasic	15699180	Nickel ammonium sulfate
7789006	Potassium chromate	10140655	Sodium phosphate, dibasic	16721805	Sodium hydrosulfide
7789062	Strontium chromate	10192300	Ammonium bisulfite	16871719	Zinc silicoffuoride
7789095	Ammonium bichromate	10196040	Ammonium sulfite	16919190	Ammonium silicofluoride
7789426	Cadmium bromide	10361894		16923958	Zirconium potassium fluoride
7789437	Cobaltous bromide	10380297		25154545	Dinitrobenzene
7789619	Antimony tribromide	10415755		251 <b>54556</b>	Nitrophenol
7790945	Chlorosulfonic acid	10421484	· Ferric nitrate	25155300	Sodium dodecylbenzenesulfonate
8001352	Toxaphene	10588019		25167822	Trichlorophenol
10022705	Sodium hypochlorite	11115745	Chromic acid	25168154	2,4,5-T ester
10025873	Phosphorus oxychloride	12002038	Cupric acetoarsenite	25168267	2,4-D ester
10025919	Antimony trichloride	12054487	Nickel hydroxide		Calcium
10026116	Zirconium tetrachloride	12125018	Ammonium fluoride		pensenesulfonate
10028225	Ferric sulfate	12125029	Ammonium chloride		Dodecylbenzenesulfonic acid
10028247	Sodium phosphate, dibasic	12135761		27323417	Triethanolamine
10039324	Sodium phosphate, dibasic	12771083			penzenesulfonate
10043013	Aluminum sulfate	13597994		27774136	Vanadyl sulfate
10045893	Ferrous ammonium sulfate	13746899		28300745	Antimony potassium tartrate
10045940	Mercuric nitrate	13765190		36478769	Paraformaldehyde
10049055	Chromous chloride	13814965		37211055	Uranyl nitrate
10099748	Lead nitrate	13826830	Ammonium fluoborate		Nickel chloride
10101538	Chromic sulfate	13952846	sec-Butylamine	panolan	Dodecylbenzenesulfonate isopro
10101630		14017415		52628258	Zinc ammonium chloride
10101890	Sodium phosphate, tribasic	14216752	Nickel nitrate	52740166	Calcium arsenite
10102064	Uranyl nitrate	14258492	Ammonium oxalete	53467111	2.4-D ester
10102188	Sodium selenite	14307358	Ammonium organic Lithium chromate Ammonium fairrate Zine ammonium chloride Zine ammonium chloride		Ferric ammonium oxalate
10102440	Nitrogen dioxide	14307438	Ammontum terrate	61792072	2,4,5-T ester
10102484	Lead arsenate	14639975	Zinc ammonium chloride	01182012	elifor cont
10108642	Cadmium chloride	14639986	True sumbothing chrotice		

[116.4B table amended by 44 FR 65400, November 13, 1979]

CONTINUED FROM THE FRONT	
Vil. SIC CÓDES (4-digit, in order of priority)	The same of the sa
A. FIRST	B. SECOND
c (specify)	(specify)
7 9 7 1 1 National Security	7 NA
C. THIRD	D. FOURTH
s (specify)	c (specify)
NA NA	NA NA
VIII. OPERATOR INFORMATION	15 16 - 15
A. NAME	8. Is the name listed in
c	Item VIII-A also the
8 MARINE CORPS BASE CAMP	LEJEUNE COMPET
	VES □ NO
C. STATUS OF OPERATOR (Enter the appropriate letter into the ans)	ser hours (6110ehou) and (611
}	(analytical)
S = STATE O = OTHER (specify)	Specify NA   91 9   4 5 1   5 0 0 3
P = PRIVATE	15 15 15 19 - 21 22 - 26
E. STREET OR P.O. BOX	
	그는 그 사람들이 되었다. 그는 전에 제한 그는 그는 사람들 중심하는 이상 교육을 받는다. 그는 그는 사람들은 그는 사람들은 그는 사람들은 사람들은 그는 사람들은 그는 사람들은 것이다.
28	35
F. CITY OR TOWN	G.STATE H. ZIP CODE IX, INDIAN LAND
B CAMP LEJEUNE	NC 2 8 5 42 Is the facility located on Indian lands?
B CAMP LEJEUNE	TES DINO STATES
15 10 10 10 10 10 10 10 10 10 10 10 10 10	40 41 42 47 - 91
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to Surface Water) D. PSD (Air Emission	ns from Proposed Sources)
9 N N C O O O O 3 2 3 9 9 P N A	
	ER (specify)
	(specify)
9 U N.A	
15 14 17 14	ER (specify)
<u> </u>	(specify)
9 R 9	(specify)
13 (18 17 18 30 15 16 17 18	20
XI. MAP	
Attach to this application a topographic map of the area extending	to at least one mile beyond property bounderies. The map must show
the outline of the facility, the location of each of its existing and	proposed intake and discharge structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well where it in	ects fluids underground. Include all springs, rivers and other surface
water bodies in the map area. See instructions for precise requirement	its. (SEE ATTACHMENT A)
XIL NATURE OF BUSINESS (provide a brief description)	मा न इस ने हिंदी है कर के बोर्च के बेहर की महिल्यों है ने बोर्च है
Military Training and Supporting Activities	
Equipment and Vehicle Maintenance	
Facilities Maintenance	
	Stivition
Personnel Housing, Utilities and Supporting Ac	ctivities
Mata. Course turntment mlante dischause turns	and affiliant window MDDEC Dawnit MCCCCCCCC
	ted effluent under NPDES Permit NCO003239.
These plants treat only sewage produced	aboard this facility.
VIII OFOTIFICATION (	
XIII. CERTIFICATION (see instructions)	Province the second of the sec
I certify under penalty of law that I have personally examined and	am familiar with the information submitted in this application and all
attachments and that, based on my inquiry of those persons imi	mediately responsible for obtaining the information contained in the
application, I believe that the information is true, accurate and co	mplete. I am aware that there are significant penalties for submitting
false information, including the possibility of fine and imprisonment	
A. NAME & OFFICIAL TITLE (type or print)  B. SIGNA	C. DATE SIGNOD
	1 8 1 057 mm
	1D/sace
COMMENTS FOR OFFICIAL USE ONLY	The same of the property of the same of th
EPA Form 1510-1 (6-80) REVERSE	32.]
HEYEROC	

-\$ 4				м.			*	
Please print or type in the unshaded areas only [fill—in areas are spaced for elite type, i.e., 12 characters).	J.				m Approved OMB No.	158-RO	175	
FORM U.S. ENVI				CTION AGENCY	I. EPA I.D. NUMBER	Luke	, t	· SINV
META	Consolid	dated	Permits P	MATION Program Defore starting.)	FNC617002	2 2 5	8	0 0
LABELITEMS	77	7	17	11111	GENERAL INST			13   14   15
1. EPA I.D. NUMBER					If a preprinted label has it in the designated space, ation carefully; if any of	Revie	n the	inform-
III. FACILITY NAME					through it and enter the appropriate fill—in area be	correc	t dat	a in the
V FACILITY					the preprinted data is abs	ent (th	e are	a to the
PLEASE PL	ĄČĘ	ĽĄ	BEĽ IŃ	THÌS SPACE	that should appear), pleas proper fill—in area(s) bel	e prov	ide i	t in the
					complete and correct, you Items I, III, V, and VI	(except	· VI-	8 which
VI. FACILITY VI. LOCATION					must be completed regar items if no label has been	provid	ded.	Refer to
1500000					the instructions for det tions and for the legal i which this data is collected	uthori		
II. POLLUTANT CHARACTERISTICS	100		or Pers	The state of the s			au, h	A Cold
INSTRUCTIONS: Complete A through J to determine	whethe	r yo	u need to					
questions, you must submit this form and the suppleme if the supplemental form is attached. If you answer "no is excluded from permit requirements; see Section C of the	o" to ea	ich q	น <b>es</b> tion, y	ou need not submit any of the	ese forms. You may answer "n	o" if yo	our ac	olumn ctivity
SPECIFIC QUESTIONS			K'X'		QUESTIONS		MAR	F 04 4
A. Is this facility a publicly owned treatment work		2	ATTACHED	B. Does or will this facility	(either existing or proposed)	1	70	ATTACH?
which results in a discharge to waters of the U.S. (FORM 2A)	16	X 17	18	equatic animal producti discharge to waters of th		19	X 20	41
C. Is this a facility which currently results in discharge to waters of the U.S. other than those described in A or 8 above? (FORM 2C)		- 22	* *		ry (other than those described n will result in a discharge to RM 2D)		X	37
E. Does or will this facility treat, store, or dispose on hazardous wastes? (FORM 3)	Υ		Х	municipal effluent below taining, within one qu	ct at this facility industrial or w the lowermost stratum con- serter mile of the well bore,	1	х	
G. Do you or will you inject at this facility any produces water or other fluids which are brought to the surface		29	30		drinking water? (FORM 4)	31	32	33
in connection with conventional oil or natural gas pro duction, inject fluids used for enhanced recovery o	)-	Х		process, solution mining	nining of sulfur by the Frasch g of minerals, in situ combus-		Х	
oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		30	34	tion of fossil fuel, or re (FORM 4)	covery of geothermal energy?	37	33	39
<ol> <li>Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the in</li> </ol>	1-	Х		NOT one of the 28 inc	ed stationary source which is dustrial categories listed in the			
structions and which will potentially emit 100 ton per year of any air pollutant regulated under the	•			per year of any air pollu	will potentially emit 250 tons tant regulated under the Clean		Х	
Clean Air Act and may affect or be located in a attainment area? (FORM 5)	40	41		aree? (FORM 5)	or be located in an attainment	43	44	43
c	# 1	<i>x</i> ,						
1 SKIP MARINE CORPS BAS	Ε.	C	<u>A M P</u>	<u>LEJEUNE.</u>		-65	e in the	
IV. FACILITY CONTACT				The state of the s	B. PHONE (area code & no.)			
2DANNY SHARPE ECOL	1 7	7	<del> </del>	01	9 4 51 1 5 0 0	7		*
13	. 0 .0			45 145 -	4 31 30 0	۲ ا		· John Weit
A. STREET OR P.O.	o, BOX							
3 MARINE CORPS BASE			I T					
E. CITY OR TOWN				C.STATE D. ZIP CO	DE			•
4 C A M P L E J E U N E	1 T			N C 2 8 5 4	2	:		
VI. FACILITY LOCATION	SPRC	EIC	DENTIF		THE RESERVE AND ASSESSED.	¥-1. 7		
5MARINE CORPS BASE	1			*				
S. COUNTY NAME		<del></del>				•		
O'N'S L'O'W COUNTY	. ,			70				
C.CITY OR TOWN	<del></del>	· ·		D.STATE E. ZIP CO	- (If known)			
6 CAMP LEJEUNE	·		· · · · · · · · · · · · · · · · · · ·	N C 2 85 4	2	-		

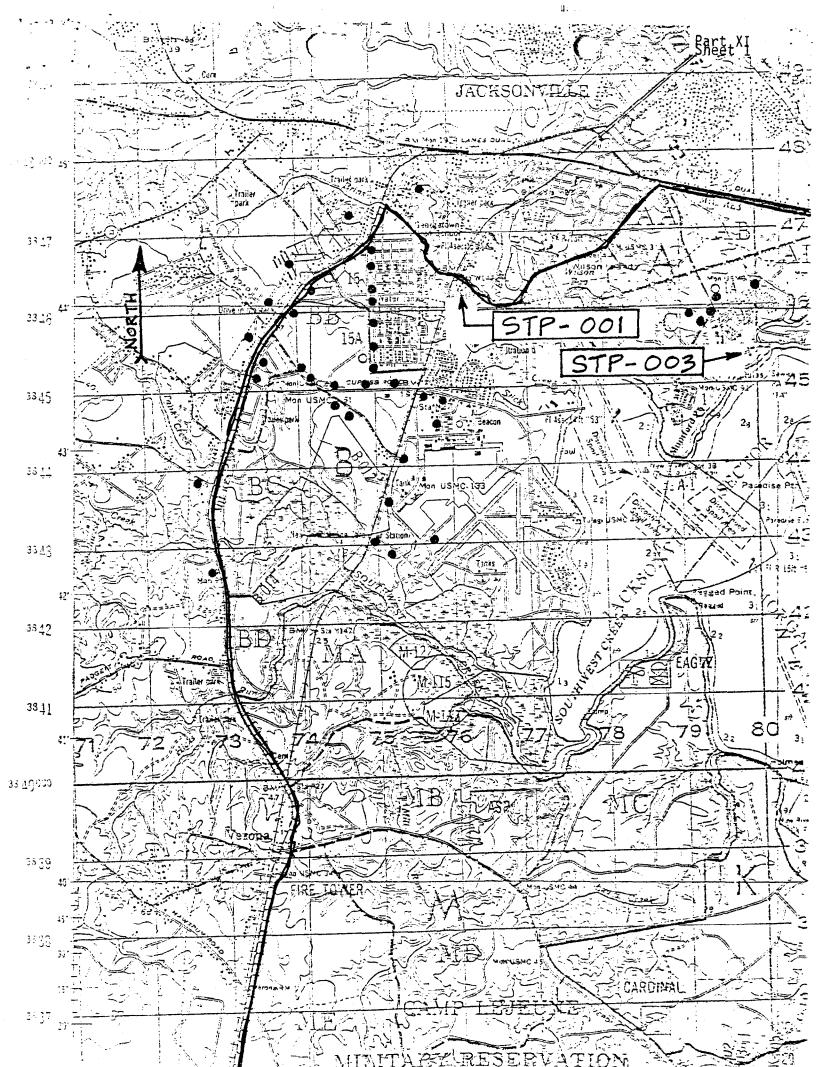
Topographic Map Marine Corps Base Camp Lejeune, North Carolina

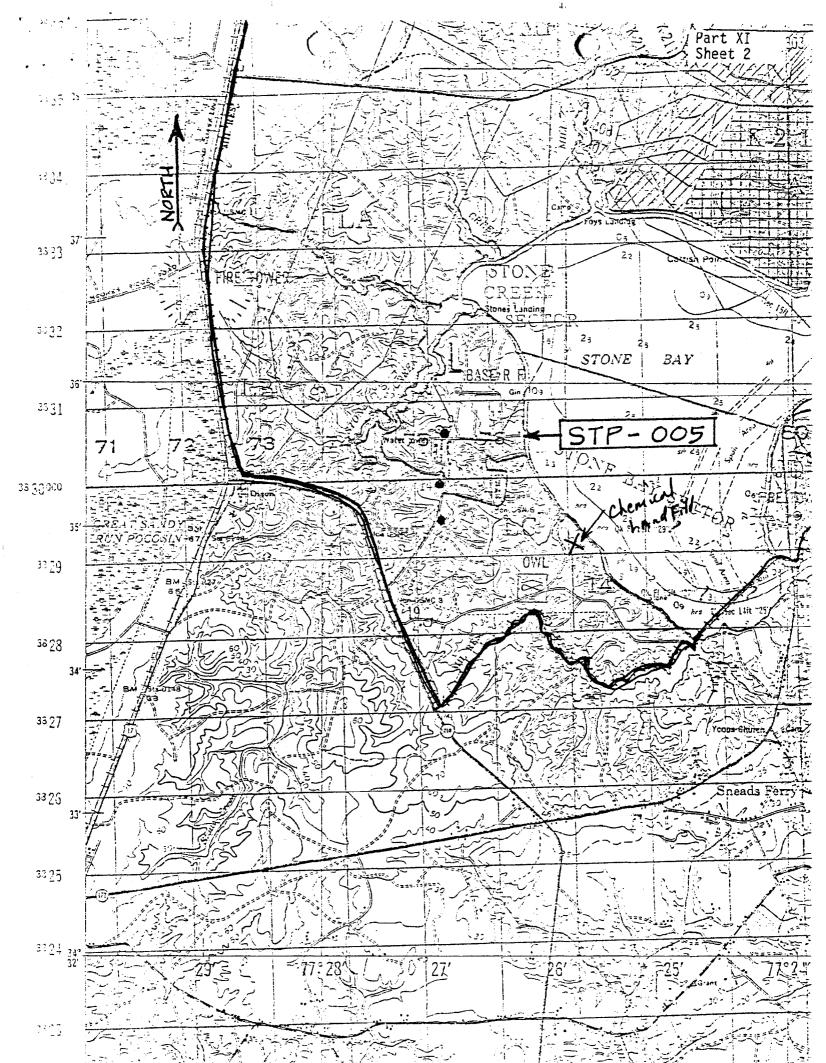
- 1. The attached maps were copied from the Camp Lejeune Special Map, 5th Edition, September 25, 1976, published by The Defense Mapping Agency Hydrographic Center, Washington, D. C. 20390.
- 2. Map Scale 1:50,000

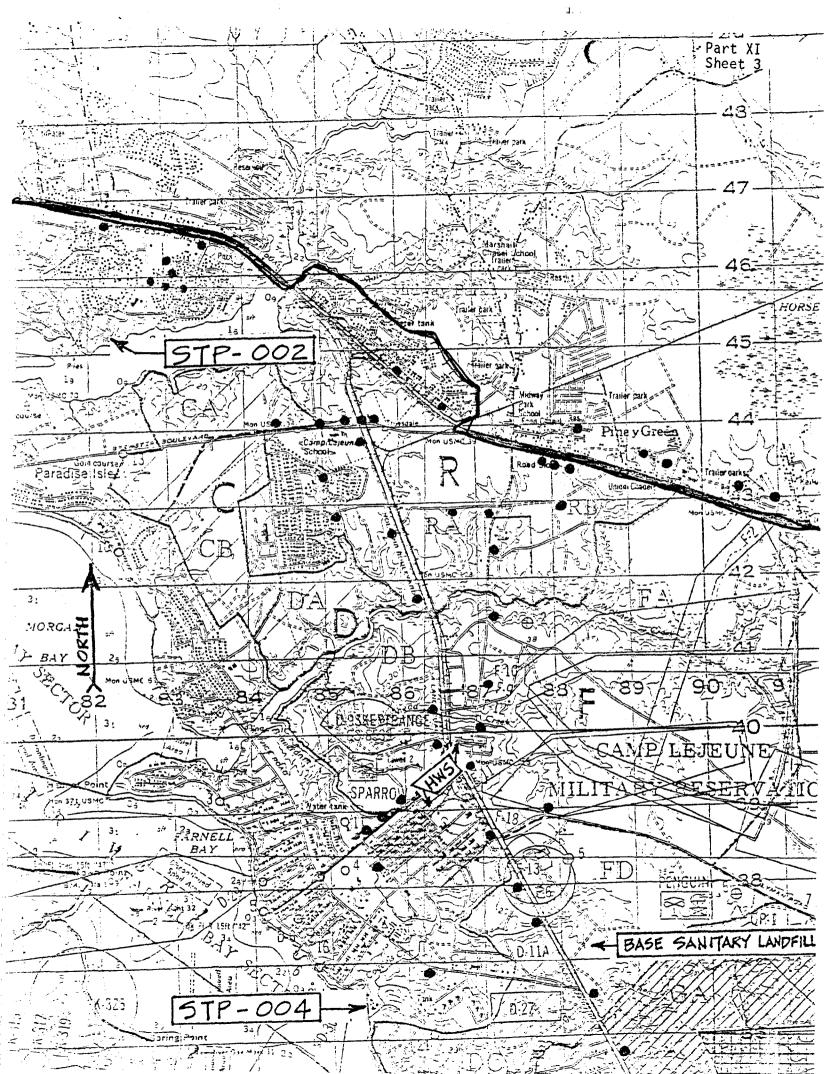


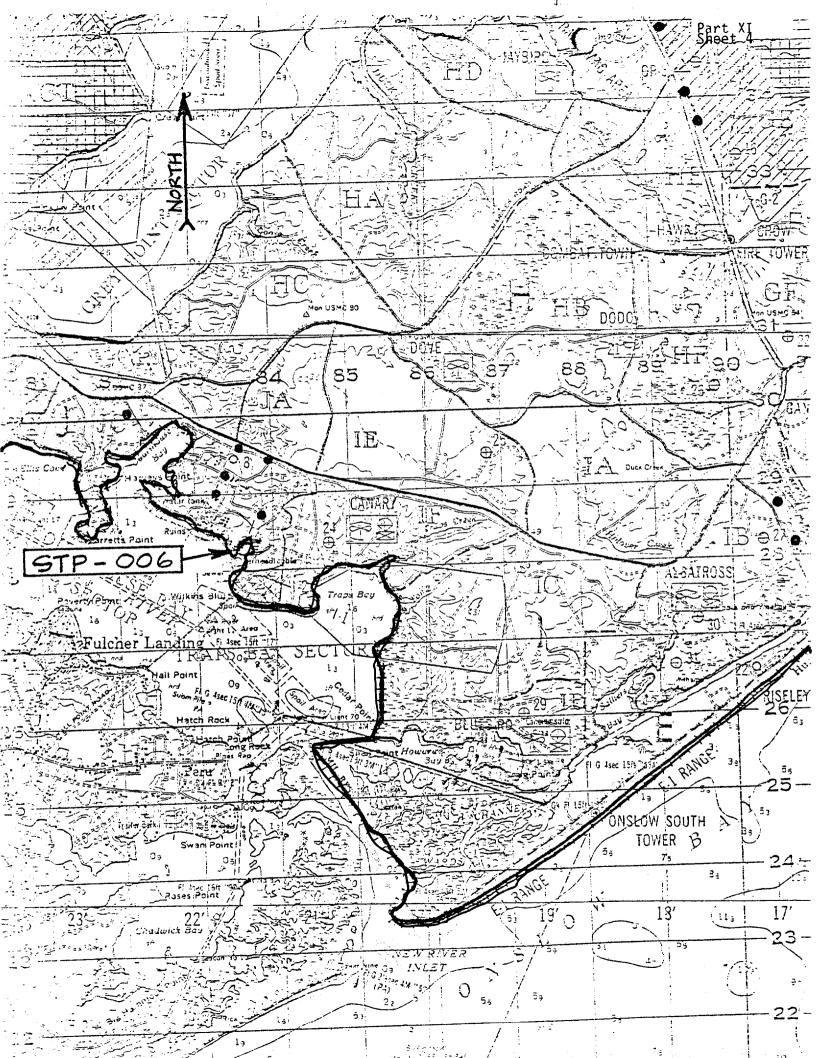
- 3. Contour lines are marked in 10 feet intervals above mean high water level.
- 4. Symbols used to show requested information are as follows:

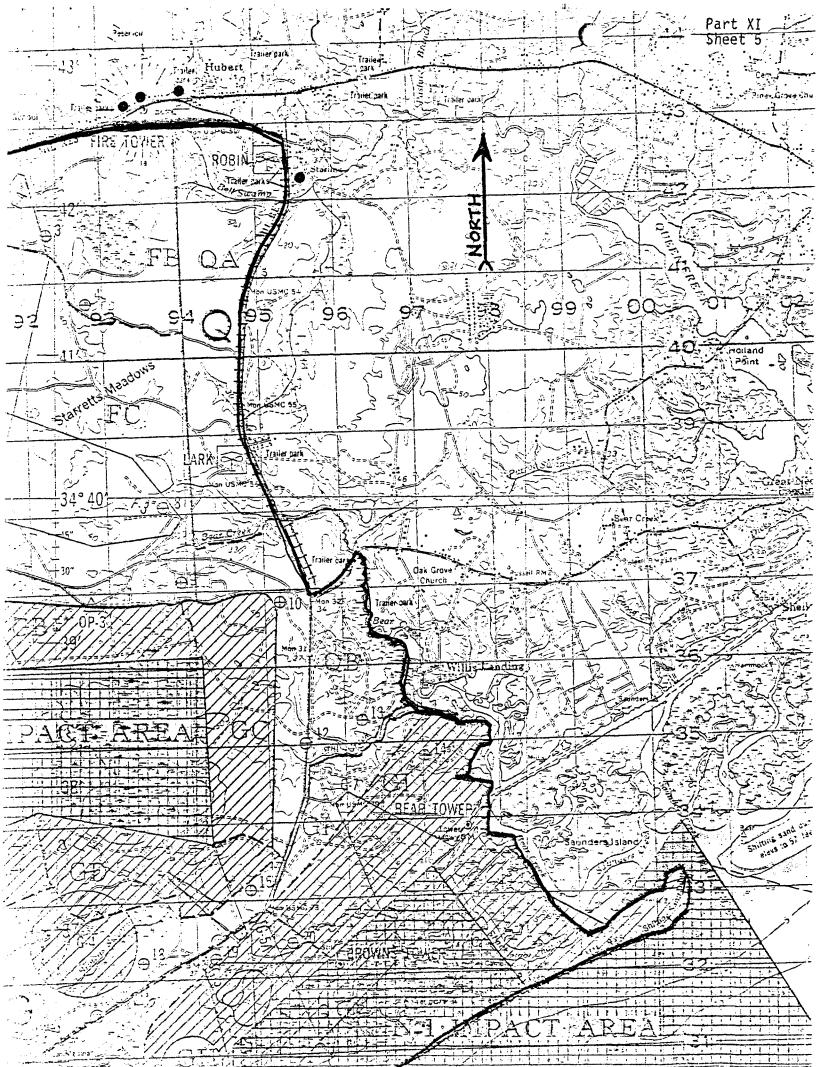
Symbol Symbol	<u>Feature</u>
	Facility Boundary
	Public Drinking Water Well
STP-001-	Sewage Treatment Plant Location and NPDES ID Number
HWS 7	Facility Used to Store Hazardous Waste Awaiting Transfer to Approved Off Base Disposal Facilities







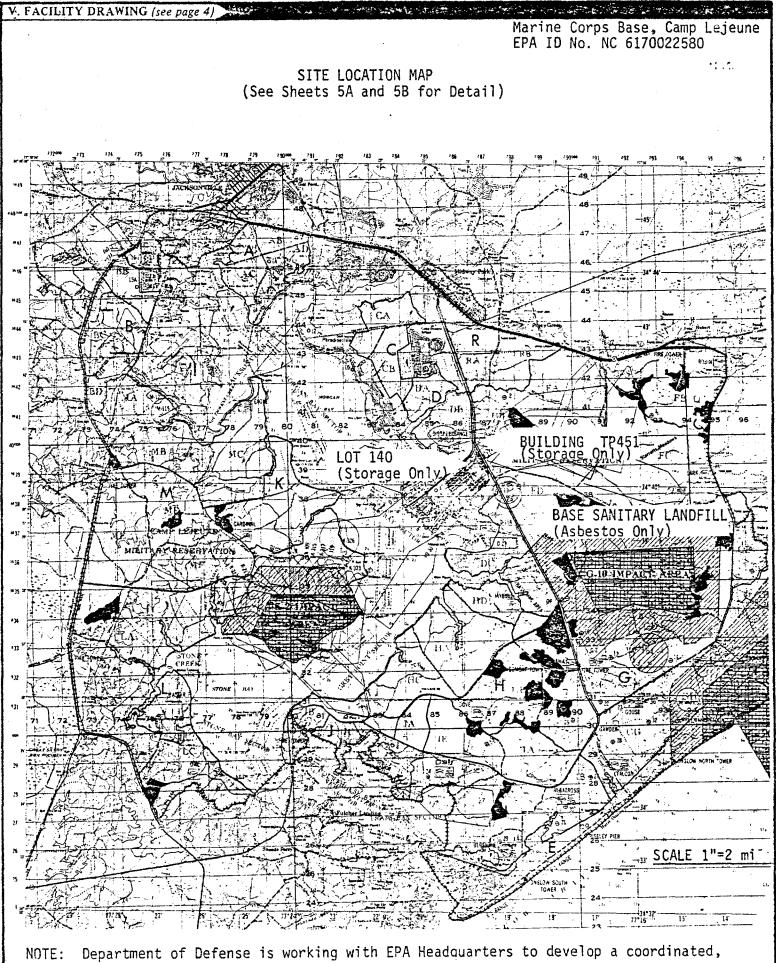




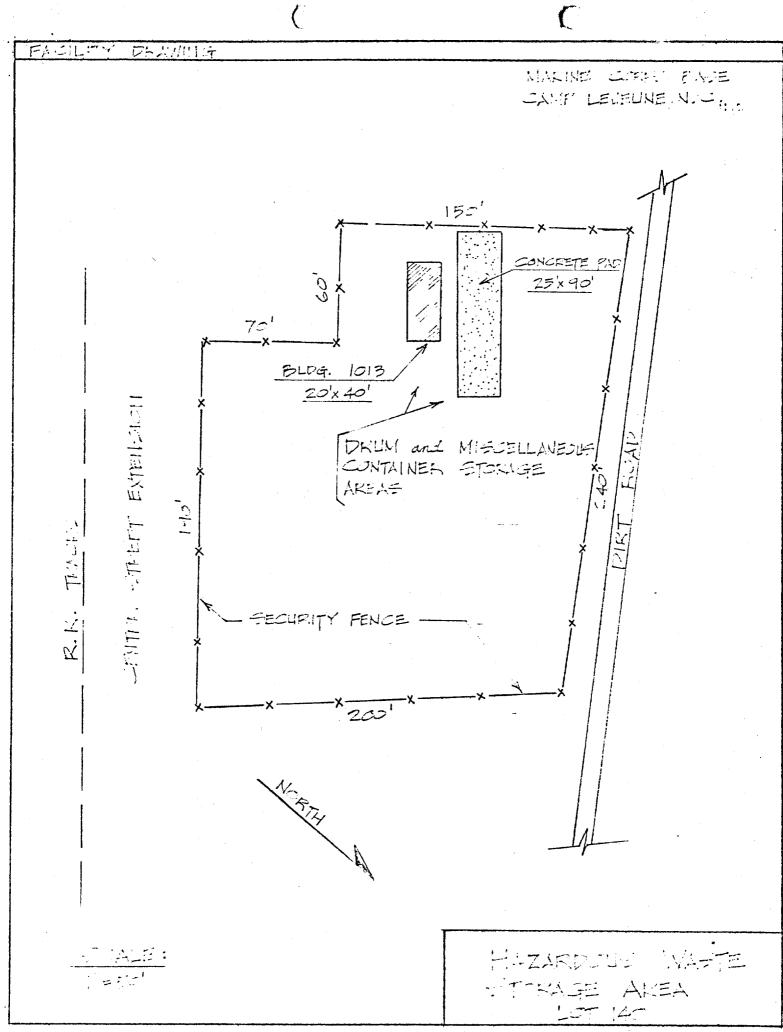
Part XI Sheet 6

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11.5

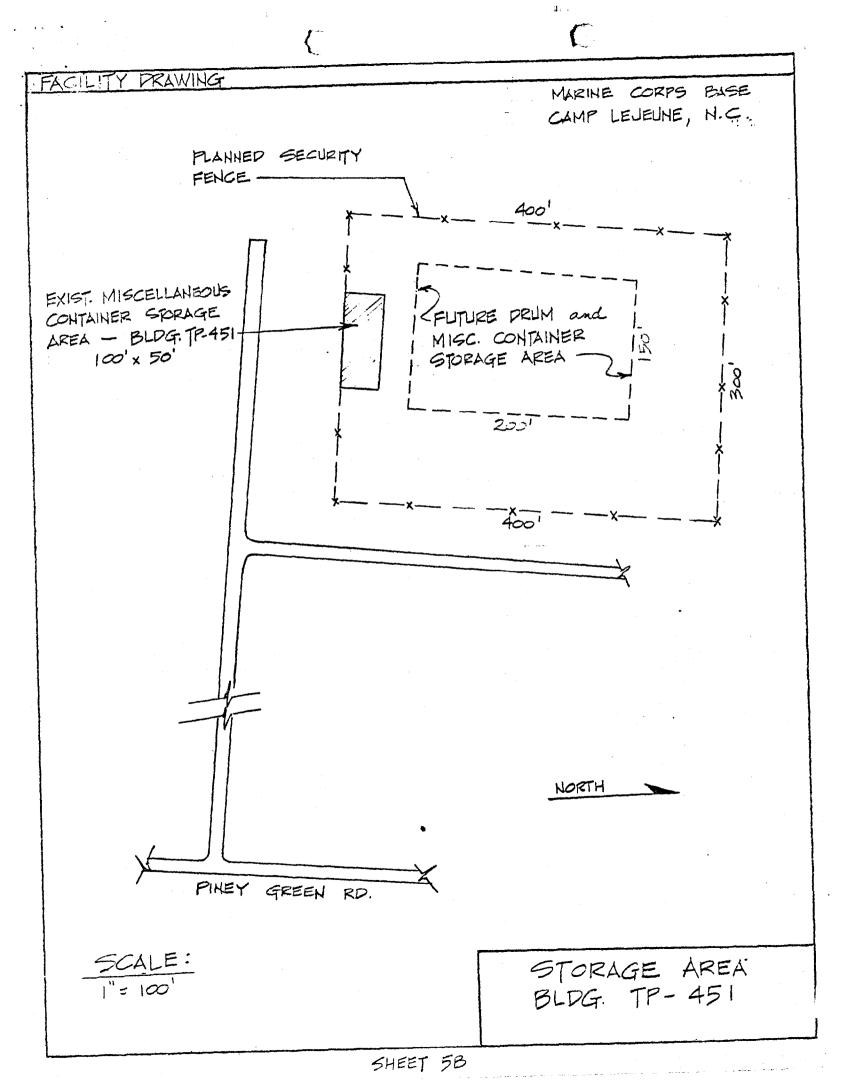


workable approach on past hazardous waste disposal sites. Information will be provided when it becomes available.



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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

NA

IV. DESCRIPTION OF HAZAR	DOUS WASTI	ΞS
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- TO SHARE THE RESERVE OF THE SHARE TH A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE -- For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	т	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

#### D. PROCESSES

#### 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous westes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B.C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line,
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

1 . . . . . . . . . . .

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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X-	4	D	0	0	2						1	1		1	-		7	1		ı	included with above

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OM8 No. 158-S80004

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IV. DESCRIPTION OF HAZARD	OUS WASTES (continu	(ed)		
		CODES FROM ITEM D(1) ON PA	GE 3.	
or demolition of buit tary Landfill in acco	ldings and utili ordance with ins	bestos is generated aboaties. Asbestos wastes a tructions provided by So onnel of the North Carol	are disposed of at olid Waste Disposa	the Base Sani-
Note #2 (From Pages I because there are no underway to analyze s	industrial or m	udges from base sewage t anufacturing operations nts.	reatment plants a located aboard ba	re not included se. Steps are
	1.			
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EPA I.D. NO. (enter from page	1)			
FNC617002258	3 0 6			
V FACULTY DRAWING	13 (14 15			
V. FACILITY DRAWING	he snace provided on nage	5 a scale drawing of the facility (see insti	ructions for more detail).	
VI. PHOTOGRAPHS	he space provided on page			Section 1
	photographs (aerial or	ground-level) that clearly delineat	e all existing structures; e	cisting storage.
		treatment or disposal areas (see ins		
VII. FACILITY GEOGRAPHIC L	OCATION	and the second second		and the second
LATITUDE (degree	s, minutes, & seconds)	LON	GITUDE (degrees, minutes, &	seconds)
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VIII. FACILITY OWNER  A. If the facility owner is also the skip to Section IX below.	e facility operator as listed	in Section VIII on Form 1, "General In-	formation", place an "X" in the	he box to the left and
B. If the facility owner is not the	facility operator as listed	in Section VIII on Form 1, complete the	following items:	•
				NE NO. (area code & no.)
	I. NAME OF FACILITY	- 110A1 OTTIER		
È NA			25 56 - 39	59 - 61   62 - 65
3. STREET OR P.	о. вох	4. CITY OR TOWN	5.ST.	6. ZIP CODE
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IX. OWNER CERTIFICATION			The second second	
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X. OPERATOR CERTIFICATIO			The state of the s	
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EPA Form 3510-3 (6-80)

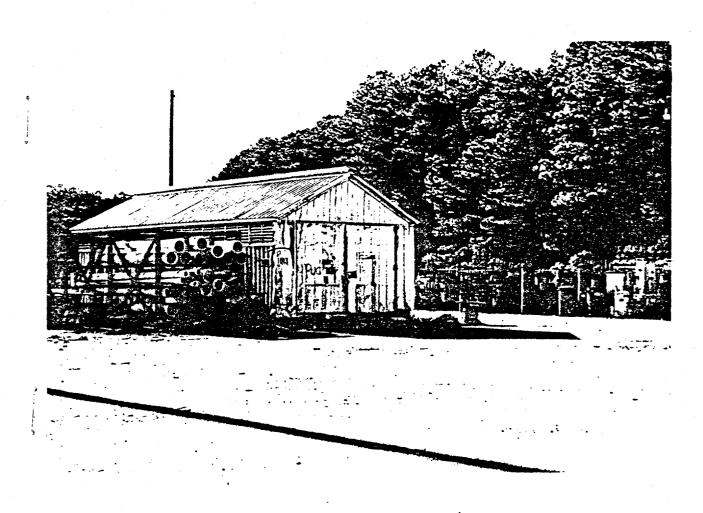
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PAGE 4 OF 5

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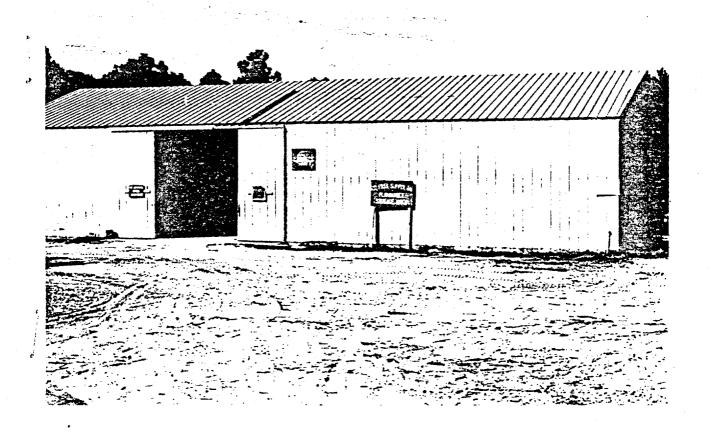
CONTINUE ON PAGE 5

Part VI, EPA Form 3510-3 (6-80) Marine Corps Base, Camp Lejeune EPA ID No. NC 6170022580



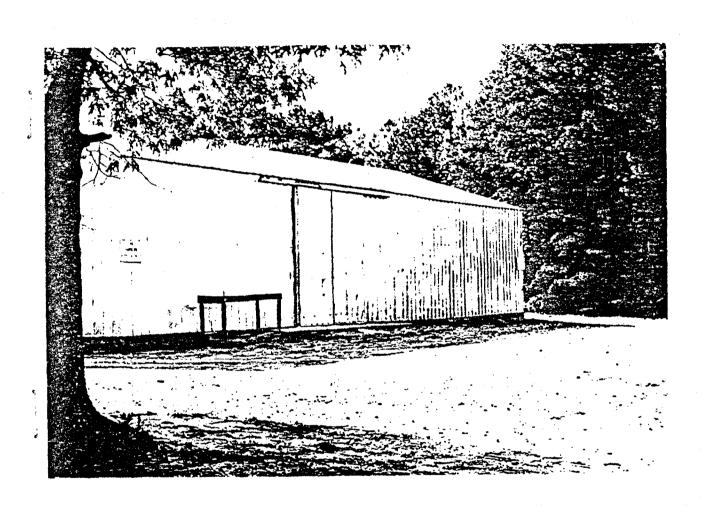
PHOTOGRAPH #1 Lot 140 Taken - 26 October 1980

Part VI, EPA Form 3510-3 (6-80) Marine Corps Base, Camp Lejeune EPA ID No. NC 6170022580



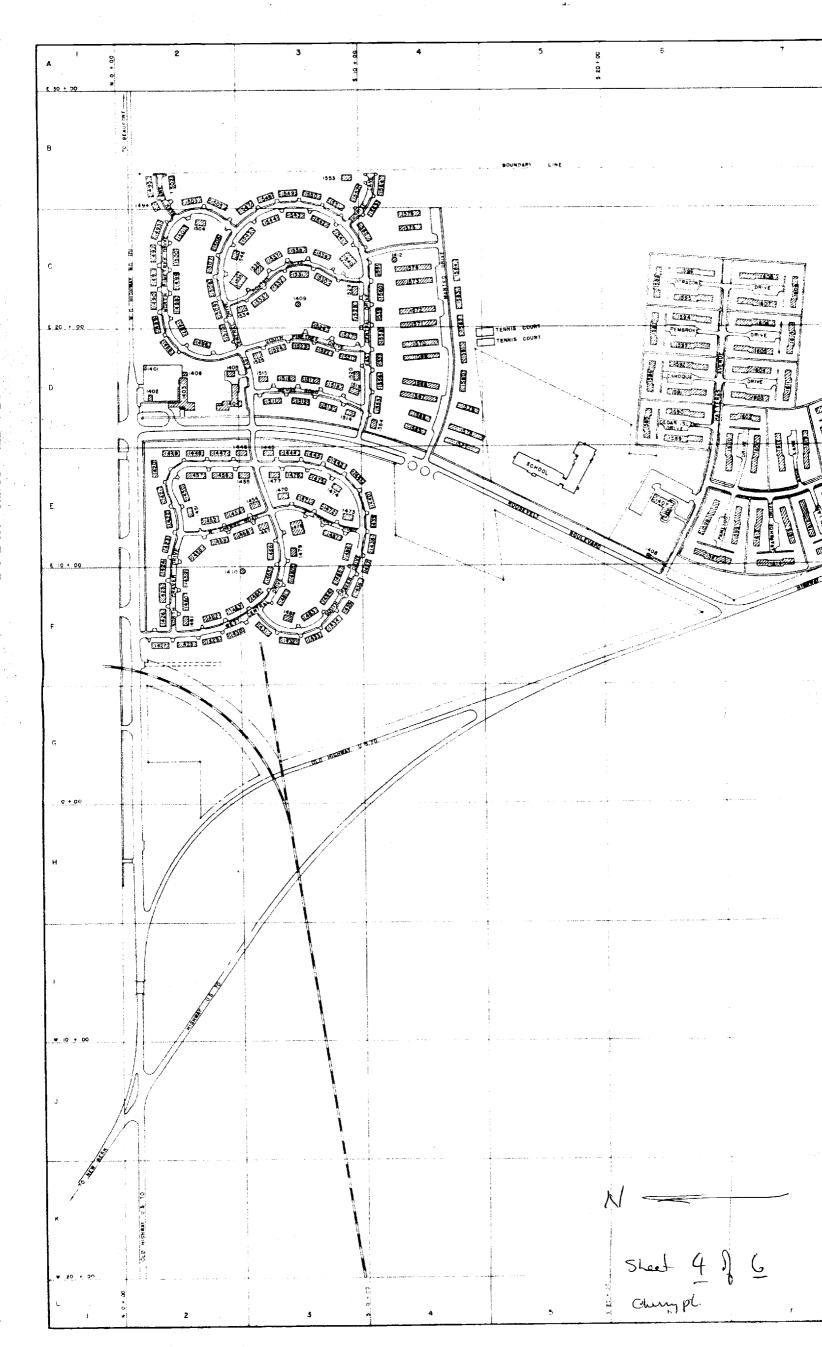
PHOTOGRAPH #2 Bldg TP-451 Taken - 26 October 1980

Part VI, EPA Form 3510-3 (6-80) Marine Corps Base, Camp Lejeune EPA ID No. NC 6170022580



PHOTOGRAPH #3 Bldg TP-451 Taken - 26 October 1980





STRUCTURE	NUMBER SHEET NO. LOCATION	STRUCTURE	NUMBER SHEET NO. LOCATION ACTIVITY	STRUCTURE
MARRIED OFFICERS QUARTERS GARAGE	464 I I-23 465 2 M-2 466 2 M-14 467 2 E-9 469 2 M-15 469 2 M-15 470 3 D-8	CARPENTER SHOP (RIFLE RANGE) BOMB UNLOADING PLATFORM RAILROAD REPAIR PIT STATION PHOTOGRAPHIC SUPPLY TRESTLE (SCHOOLHOUSE BRANCH) BRIDGE DOCK (OHERRY POINT) STOREHOUSE (PAINT & OIL)	635 2 1-7 MARRIED 636 2 1-7 637 2 1-7 638 2 1-7 639 2 1-7 640 2 1-7 641 8 1-7	ENLISTED WEN'D QUARTERS
	470 3 D- 8 471 2 G- 9 471 4 T	DOCK (CHERRY POINT)	### ### ### #### #####################	
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GUEST HOUSE	047 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
GARAGE ANNÉX HAILROAD STATION	572 2 1.9 573 2 1.9 574 2 1.9 575 2 1.9 576 2 1.9 577 29			
P.W. COLLATERAL EQUIPMENT STORENOUSE HEAD (ASPMAL) PLANT!  MALARIA: CONTROL BUILDING  P.W. GOLLATERAL EQUIPMENT STORENOUSE WATER B. BEWER STORENOUSE SQUADRON CLASS HOOM SUILDING READT HOOM (CRASH CREW) ENGINE PRESERVATION BUILDING OIL RECLANATION BUILDING FUNDER REPAIR SHOP FUNDL FUNDAM CHANGAR A B A ACETYLEME GENERATOR BUILDING A B PAINT WINNE BUILDING A. B PLANT ACCOUNTS BUILDING A. B PLANT ACCOUNTS BUILDING JOINER SHOP (EMLISTED MENS REC AREA) CAROE SHED	578			
CARGE SHED  PW SAWMIL BUILDING  JOINER SHOP (BOATHOUSE) GUTBOARD MOTOR SHOP (ROATHOUSE) GARAGE (CRASH GREW) STORAGE BUILDING (GOZ) AIRCRAFT STOREMOUNE PARACHUTE SHOP TO WMOTOP SHOP	8 0 4 2 1 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
TOWNOTOR SHOP STORMENGURE (SUJADROP SLOTHING) MACCHINE SHOP (SUPERIOR LEVERMENT) DISPRICE (A R. A. HOSE HANGAR JUHER SHOP (SUPPLY) FREIENT WAREHOUSE UPHOLISTENT SHOP (FRANSPORTATION) TIRE SHOP GAR MASHING BUILDING (CRASH CREW) MAREHOUSE INFAVY DUTT PARTS) OFFICE (CRASH CREW) BOATHOUSE (CHERRY FUINT DOORS) BADRACKS (CHERRY FUINT DOORS)	# 15 2 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0		Sheet	
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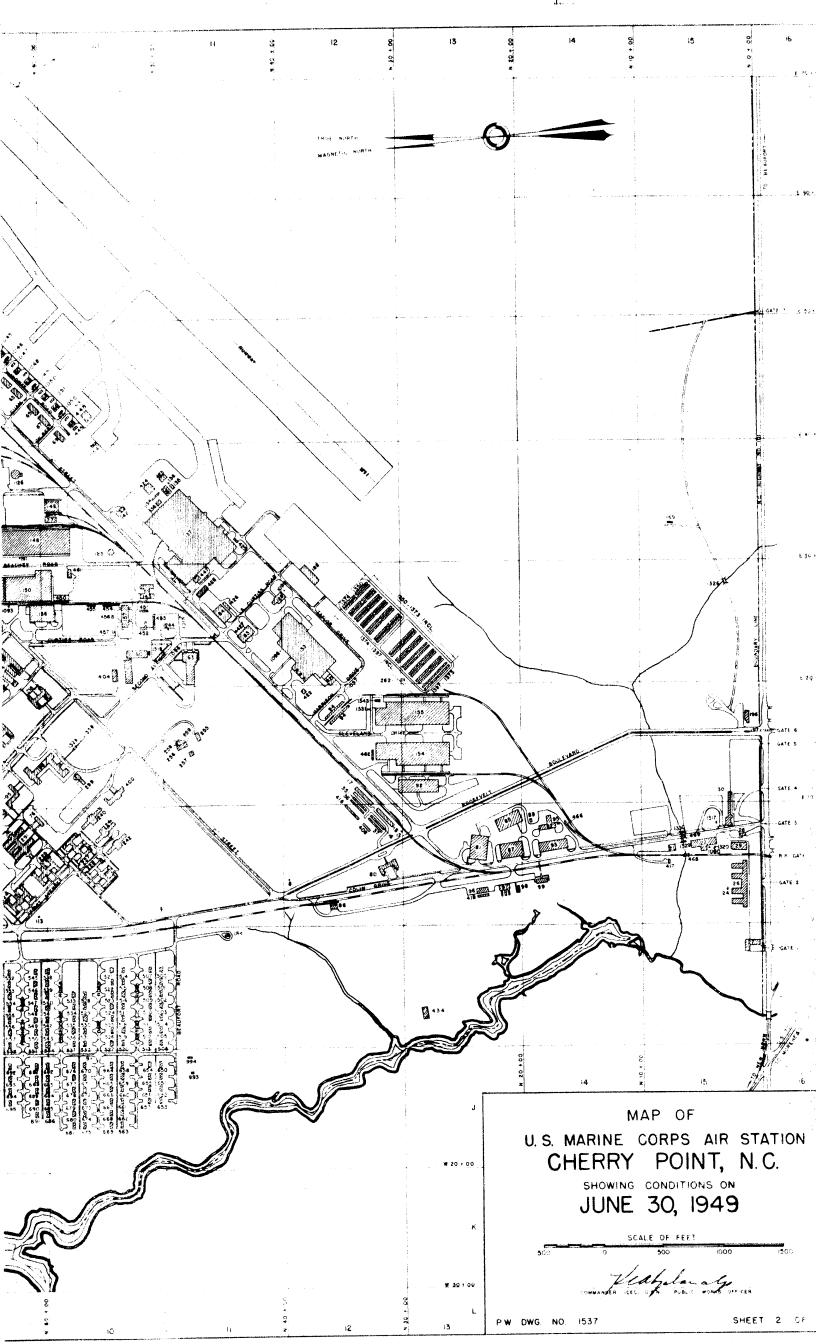
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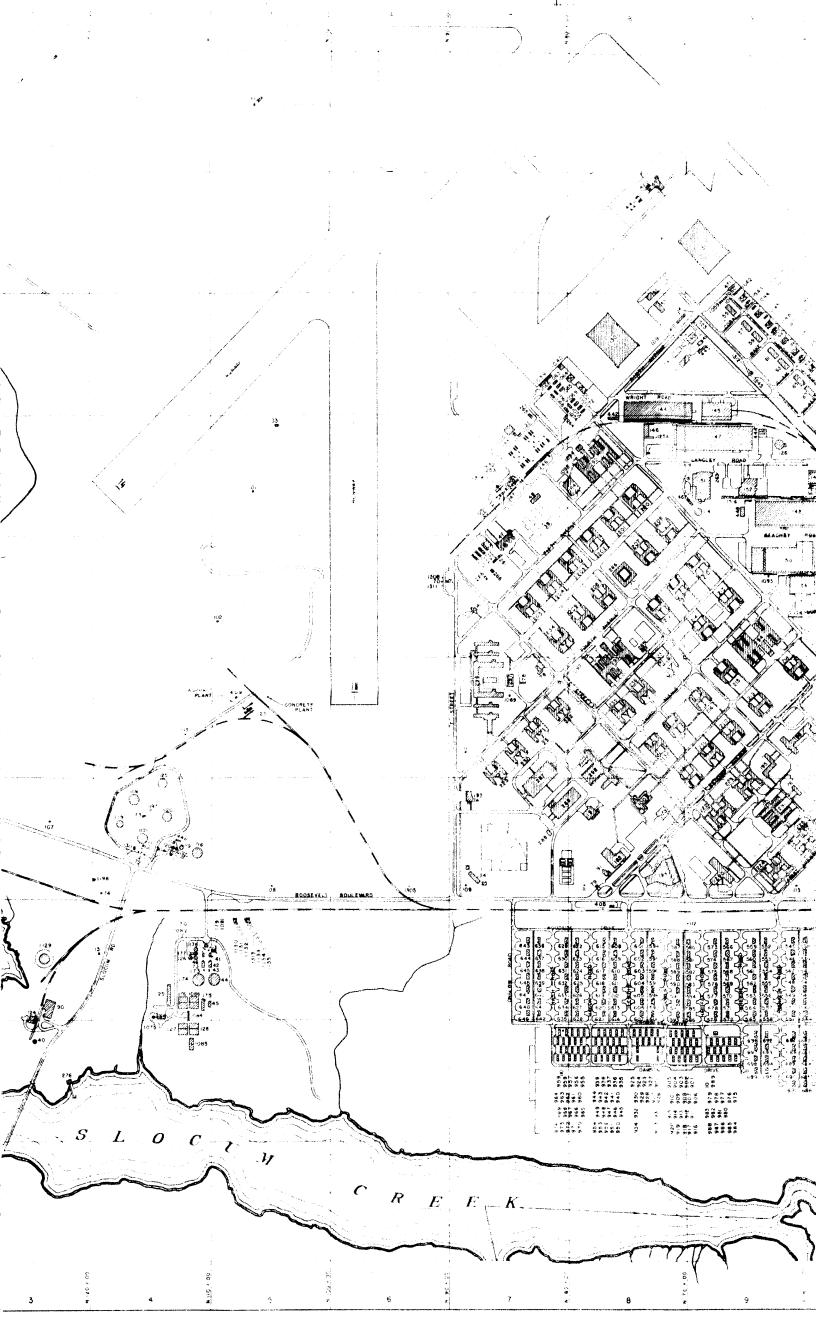
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	5 1		J-27 H-28 J-28		SORE-SIGHTING RANGE	175 176 177	1 2 1	1-4		FINAL SETTLING CHAMBER SLUDGE BED SLUDGE CONTROL BUILDING	313 323-4 324	3 3	H. 7 H. 7	
	7 2		H-10		WELL BUILDING	178 178 180	1 1 3	1 - 4 1 - 4 J. 7		SLUDSE DISESTION TANK METER HOUSE PUMPING STATION S.C.Q. SEWAGE	324-A 385 585-A	5 \$ 3	H - 7 H - 7 H - 7	
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2 5	9 ; 2		H-15 : H-15 : H-15 :		FIRST AID STATION WAREHOUSE BUS STATION (GATE 3)	199 200 201	# #	C . S		AVIATION OPERATIONS BUILDING GARRACKS (ENLISTED MEN)	335-A 336-A	3	6 · 8	
3 34 5	t i		P: 11		GOLF COURSE TURF MAINTENANCE BUILDING RADIO DIRECTION FINDER BUILDING	202 203 204	2 t	7.8			336.4. 387 337-4	3	5 - 1 ·	:
31	5 2		D- 6 H-:2 H-12		INFLAMMABLE STORAGE BUILDING P.W. COLLATERAL STOREHOUSE	205 208 207	2 2 2	F 7 E 8			338 338-A	3	6 · 8	:
31	• : · · ·		H-12 ;		SYNTHETIG TRAINER BUILDING (NOT COMPLETED)	206	2	F . 8		* * * .	339-A 340 340-A	3 3	6 8	:
	2		J=3 : 1-4 : 1-4 :		TRANSFORMER STATION FLOCGULATOR PRIMARY SETTLING CHAMBER	211 212 213	1 1 2	F . 8 F . 4			341 34:-A: 342	3	и. В н. В н. В	:
	4 E		1. 6		DOSING CHAMBER Trickling filter Final Settling Chamber	214	2 2	6. 9			348 A 343 343-A	3 3	H - ● H - ● H - ●	:
4	7 2		1-4   F-7   E-7		SLUDGE DIGESTION TANK CELESTIAL NAVIGATION TRAINING BUILDING SYNTHETIC GUNNERY	217	t t	0 · 0			344 344-A 345	3 3 3	M = <b>8</b> M = <b>8</b> 1 = <b>8</b>	:
51	0 5		D		SQUADRON WORKSHOP ADMINISTRATION	\$ \$ 0 \$ \$ 0	2 2	6. 0 8. 0 H. 0		BARRACKS (W.R.M.C)	346 A 346 A	3	( - <b>6</b> ( - <b>6</b>	
5 5	2 3 4 2		D	1	WORKSHOP "ADMINISTRATION "WORKSHOP	223 224 225	2 2	H- 9 H- 8		11 W 1) W	347 347A	3 3 3	1	
5	6 2		D- 9		ADMINISTRATION WORKSHOP ADMINISTRATION	224 227 228	3 2 2	J-7 H-10 H-10		BARRACKS (COLORED ENLISTED MEM) BARRACKS (W.R.M.C.)	348-A 349-A	3 3	1 . 4	:
5:	9 2		0 · 9		WORKSHOP ADMINISTRATION WORKSHOP	230 230	2	6 . 7 6 . 7		BARRACKS (ENLISTED MEN)	350 35 352	3	G - # 6 - # F - #	
61	2 2		D 9 ;		" ADMINISTRATION " WORKSHOP " ADMINISTRATION	232 233 234	2 3 2	6- 7 K- 7		BARRACKS (COLORED ENLISTED WEN) BARRACKS (ENLISTED MEN)	353 354 355	3	7 ¥ F. \$ F. \$	
6	5 2		D 10		WORKSHOP ADMINISTRATION WORKSHOP	235 236 237	2 2 2	6- 6 0- 6 6- 6			356 357 35#	5 5 5	F - # F - #	
6.	9 2		D-10 D-10		" ADMINISTRATION " WORKSHOP " ADMINISTRATION	230	2 2	8. 8 H-10		BARRACKS (WAVES TYPE)	350 360 361	3 3		
7 7 7 7 7	1 1 2		F - 6 F - 6 H - 4		PUMP HOUSE (GASOLINE) STATION ATTENDANTS HOUSE	241 242 243	ŧ	H-10		•	363 364	3	E - 8 -	
7	4 2		H = 4 H = 4 H = 4		PUMP HOUSE (GASOLINE)	244 245 246					365 366 367	3	6 - 8 6 - 8	
7	7 2		H - 9 F - 0 '		TELEPHONE SHOP STOREHOUSE INFLAMMABLE GASES MED CROSS BUILDING	247 248 249				· .	360 360 370	3	0 · 8	
7 9	0 2		H-12 h-13		P.X. GASOLINE SERVICE STATION P.W. OFFICE BUILDING P.W. WAREHOUSE	250 251 252					37. 378 378	3	F . 8	:
	3 2		H-14 F-11		P. W. ELEGTRIG SHOP REPAIR AND MAINTENANCE SHOP (A. B. R.) VOGATIONAL TRAINING BUILDING (A. B. R.)	253 254 255	2	G-11		FORESTRY OFFICE	574 575 576	3		
8	6 2		H-13 H-2 H-13		P. W CARPENTER SHOP P W GEMENT STORAGE P. W PAINT SHOP	256 257 258	\$ \$	6-11 6-11	1	FORESTRY SEED STORAGE FORESTRY FERTILIZER STORAGE FORESTRY TOOL STORAGE	378		# . T F . T	
8			B- 5		G.C.A. SHOP AND OFFICE BUILDING  P.W. EMERGENCY, FIRE STATION ELECTRIC PLANT	259 250 261	2	9-11 F-7		FORESTRY BARRACHS STORAGE BUILDING (TRAINING AREA)	500 501 502	3 3 3	E 7 1 E 7 G 8	
8	? 2		6-13 : M-14		BANK STOREHOUSE P W. MAGHINE SHOP	262 263 264	2 2 2	E- 7		PRESERVATION BUILDING (SUPPLY) .NFLAMMABLE STORAGE (LAUNDRY) .MEAD	5 0 3 5 0 4 5 0 5	3 5	G # G # G - ¶	
9:	5 2	1	H-14 H-15		LUMBER STORAGE SHEDS REFRIGERANT EQUIPMENT STOREHOUSE P. W. PLUMBING AND HEATING SHOP	265	2	E - 7		MAINTENANCE SHOP (TANK FARM "A") RADIO BUILDING (TRAINING AREA)	3 8 6 3 6 7 5 6 8	3	6 - 8 6 - 8 6 - 8 -	
91	. 2		H-13		P W PAINT AND OIL STOREHOUSE TYPEWRITER SHOP P W. MAINTENANGE OFFICE BUILDING	268 -0-0-0 -1-10	. 2	F - 7		CLASS ROCM	369	3 3 5	F - B F - 7	
0	2		H - B -		CHAPEL (600 MAN) WELL BUILDING NO 57 56	27E 27E 273	£ 2	7 - 7 7 - 7		AIRGRAFT TRAINING BUILDING	392 393 394	3 3	F - 7 F - 7	
10	4 : E		G - 4 H - 4 Q -/ 9		50 50 60	274 278 276	2 2	F. 7 F. 7 J. 3		SCREEN HOUSE (ELECTRIC PLANT)	395 396 397	3 3	E-7 E-7	:
10	7 8		H 3		59 50 51	277 278 279	2 2 3	J-7 8-7 E-10		WASH BUILDING (B D G AREA) GARGAGE BUILDING (DISPENSARY) C D M ANNEX NO 6 (REPAIR SHOP)	300	3 *	E- 7 E- 7	40581 HDUBS
10	0 2	1	H. 7   J. 7   H. 8	,	5g 17 53	280	3	E- 7		" NO. 5 (BOAT HOUSE) " NO 2 (HANCOCK LODGE) " NO 5 (BOY SCOUT)	400 400 400			'
	3 2		1 . 9 . H . 9 .		12 84 Water Tank (800,000 GALS.)	2 6 3 2 6 4 2 6 5	1 2	R-18 R-10 F- 6		" NO ! (LUCKY LODGE) " NO 4 (KINDERGARTEN) ATTENDED PAY STATION	404	£		PAILEDAD BY
1 11	7 2		0-14 H- 4 1	;	#ESERVOIR (500 DDD GALS.) WATEN TREATMENT PLANT	247	2	F - 6 H - 7 H - 7		BRIG (NEW) DRILL HALL HEATING PLANT (COMBAT TRAINING POOL)	40 F 40 P	2 2	4 15	ГР М. ООХБАЎВ НЕАВ БАБРИАСІ
2	5 £		H - 4		SOFTENING UNIT	290	2 2	H- 7 H- 9 H- 9		GOMBAT TRAINING POOL RECREATION CENTER MESS HALL (W.R.M.C.)	410		i	
12:	3 2		E-10	•	WATER TANK (800,000 GALS)	2 9 2 2 9 3 2 9 4	2 2	E- 8 6- 8 F- 9		MESS HALL NO. 1	414		P-18 P-19 H-2E	MALANIA GON
2	5 3		H. #		MAGHINE AND REPAIR SHOP SEWAGE PUMPING STATION SLUDGE DIGESTION TANK	296 296 297 298	2	6 7 6. 7 6. 8		OTSPENSARY BUILDING MA.B. R.T. BUILDING POST EXCHANSE	418	2 .	H-15 H-15 D- #	P.W PAINT WATER B SGUADRON C
2 2 1 2 1	8 E		. 4 F-1;		PARACHUTE SHOP	299 300 3004	3	1-0		SQUADRON OFFICE BUILDING MARRIED OFFICERS QUARTERS GARAGE	42 42	:	6- 8 F-12 G-12	READY ROOK ENGINE PRE: OIL REGLAMA
13	2 2		C · 9		HANGAR	30 I-A	3	1 - 8			424	5 5	f 10 .	RUBBER MR FIMAL FIRIDM A B M ACE!
13	5 2		F-12 . E-10 . E-11 .		ENGINE OVERHAUL AND TEST BUILDING A BR HAZARDOUS MATERIALS STOREHOUSE A BR GOOLING TOWER A BR DEEP WELL AND PUMP HOUSE	3 02 3 03 3 03 A	3	1 - 7		и п и в п н н	424	2 2	E - 61 E - 61 E - 61 E - 71	A & W PAINT TIME CHECK! A & W. P. Ar
13	7 2		E-10		A SE MBLY AND REPAIR SHOP  A.G.R. TRANSFORMER BUILDING  A.G.R. AIR CONDITIONING BUILDING	3 0 4 A 3 0 4 A	3	1.7			+20	-	•	
14	0 2		0 9 0 9 6 0		READY 3514E STORES BUILDING TRANSFORMER AND COMPRESSOR BUILDING CNYSER AND CO. TRANSFER BUILDING	305-A 306 306-A	3	1.7		W F 4 11	435	; ;	# -10 Q11 1-13	JOINER BHOP - GAMOE ちべそも PM BAWMIC:
14	5 2		F 10		TRANSPORTATION MAINTENANCE SHOP	307 307-A 306	5	1- 7			435			
14	6 £		E 9 :		PAINT AND OIL STOREHOUSE NO. 1 GENERAL STOREHOUSE NO. 1 " 2	308-A 309 309-A	3 3 5	1 - T 1 - T	į		436 436 440	7	# 11 # 1 d #	JOINER SHO OUTBOARD M GARAGE (OF
5	0 5	1	£ 10		PAINT AND OIL STOREHOUSE NO. 2 QUARTERNASTER STOREHOUSE LAUNDRY	310 310 311	3	1-7		* * * * * * * * * * * * * * * * * * *	4-2	r r	6. # . g #	5. T G B A G P
5	2 2 3 2 4 2		E - 9 K - 8 G - 13		OFMERAL HEATING PLANT U.S. POST OFFICE TEMPORARY STOREHOUSE "A"	3 1 1-A 3 12 3 (R-A	3	1-7			440	2	D. Ti	STORE HOUSE WACHINE S
15	6 2	:	6-13 F D F-0		COLO STORAGE BUILDING AUTOMOTIVE ENGINE OVERHAUL BUILDING	3 13 4 3 14	3	1- 6 1- 6			448	*	# + + + + + + + + + + + + + + + + + + +	OIBPATON MOSE MAN JOINER SHI
15	6 I 9 0 2		0 -15 F 10		TRANSPORTATION OFFICE AND GARAGE	3 14-A 3 15 3 15-A		1 - 6 1 - 6			40°	# 2	# 10 # 10 # 10	PREIBNY P OPHOLETERS TIME BHOP
	2 2		# . 7 ; H . 8 ; F . 1 L		CHEMICAL WARFARE INSTRUCTION BLDG SALES COMMISSARY CAPETERIA (CIVILIAN)	316 316-4 317	3	1 · 8 1 · 6 H · 8			454	2 ?	1 10	会は集成的 教名の 事会は会社事業のでは (ひを必用する)
1	6 1	1	E - 8 0 - (8 0 - 18		BANERY RADIO TOWER	3 1 7-4 3 1 6-4	3	H - B H - B H - B			406	2 2 5	7 :0 F :0 }	PAREMOUNE OFFICE (OF BOATHOUSE BARRACKS
16	0 2		0-15 0-15 £-15		RADIO TRAMBMITTER BUILDING PIRE AND CRASH ALARM BUILDING	3 1 8 4 3 1 8 4	3	H - 6 H - 6			460 460	,	D #	· 自由的现在分词 安全国际 (
17			1. · • 1. •		LABORATORY (SEWASE TREATMENT) FLOCGULATOR	320-	:	H- 6	<u> </u>		***		123	810HEHAUBE

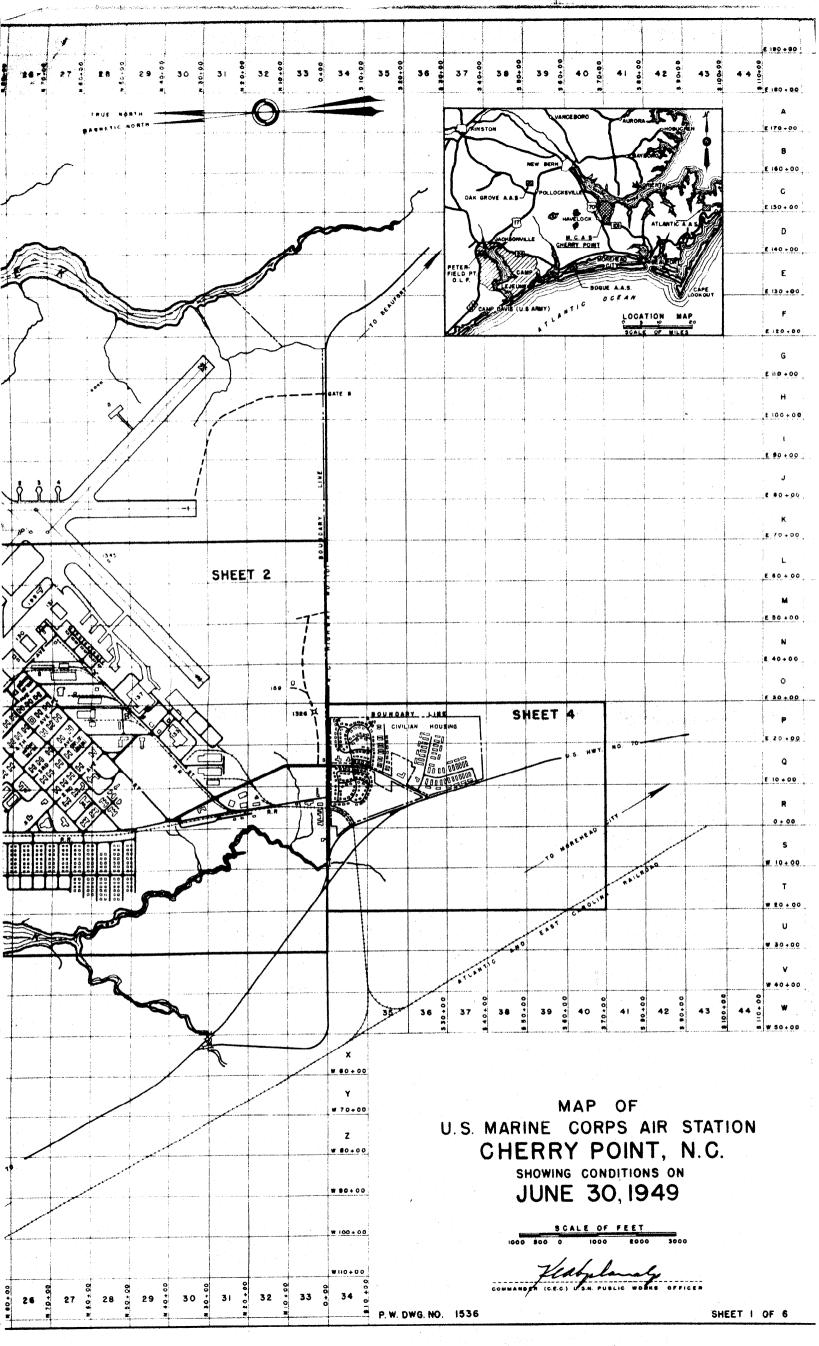
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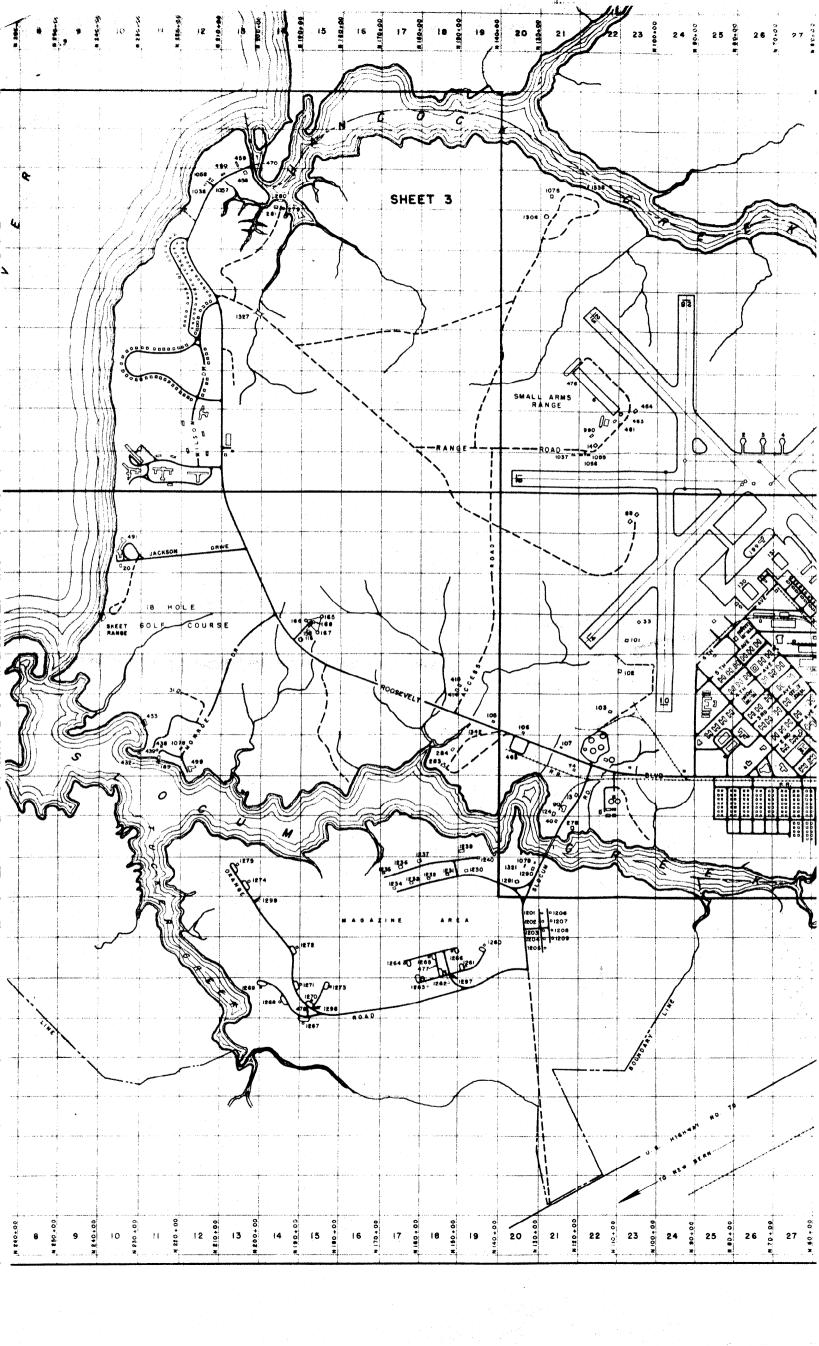
STRUCTURE	NUMBER	SHEET	LOCATIC	ACTIVIT			5 T R	UCTU			NUMBER	SHEET	LOCATIC	ACTIVIT		ST	RUCTU	IRE		NUMBE
GUARO HOUSE (MASAZINE APEA) Warehouse (Practice Bomb)	1457 1458 1459 1460 1461 1462 1463	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	を一定を を一定 デー度 デー度 デー度 デー度	-	APAR	TMENT	8 On.	DING	(E FA)	(ILY)	1826 1828 1630 1621 1632 1633	• • • • • • • • • • • • • • • • • • • •	E- 8 D- 8 D- 8 E- 9 E- 8	The second secon	APARTM	ENT B	JIL DING	10 #	MILY)	
ELECTRIC YRUCK LDAVING RAMP	1464 1465 1466 1467 1469 1470 1471 1472	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	F. 3 F. 3 E- 3 E- 3 E- 8 E- 2 E- 5 E- 3 E- 3						* * * * * * * * * * * * * * * * * * *		1638 1634 1637	4	D- 6 D- 8 D- 8	Per l'acceptant de l'	:			•	:	and the second s
OBSERVATION YOWER (GAMPBELL FIELD) WATER ARK (5000 SALS, BOYS TOWN) LOADING STARD (F ST & STH AVE.) (TANK FARM & )	1473 1474 1478 1476 1477 1478 1479 1480 1481	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	E-3 E-3 E-3 E-5 E-5 F-3				•		2: : 4: 2:					T T T T T T T T T T T T T T T T T T T						
(F ST & STH AVE.) (A ST. BERVICE STATION) (FUEL DIL STORAGE) (CURTISS RO.) LOCDING RAMP ( SLDW 148) GREASE RAMP ( TRANSPORTATION )	1482 1483 1484 1485 1486 1487 1488 1489 1489		F. 3 F. 3 F. 3 E. 3 E. 3 D. 2 G. 2					·	***				STATE OF THE PROPERTY OF THE P						,	
WASH RACK (GATE 3) LORCING RAMP (MAGAZINE AREA)  RAMP (A ST.)  ER OSE (MDAD TO FIRE & CRASH BLDG)	1491 1492 1493 1494 1495 1496 1497	•	C- 2 C- 2 C- 2 D- 2 D- 2						1 2	•										
(OLD CHERRY POINT ROAD) (PEDESTRIANS ADMIN BLOB.) (BLOS. 156) P(R (MITCHELL PARK)	1498 1499 1500 1501 1502 1503 1504 1505	• • • • • •	6- 5 C- 5 C- 5 C- 5 C- 5										:							
T (N.C.O CLUS) MMARF (BOSTHOUSE) PIEN (GHERRY POINT DOCKS) (BOYS TOWN) FLAS POLE (ADMIN. BLDG) HILLSCHERN (CUSHMAN FIELD) HOLFAFAO (ROOSEYELT BOULEVARD)	1506 1507 1508 1509 1510 1511 1512 1512	•	G- 2 G- 2 G- 2 D- 3 D- 3											And the state of the state of the						
ANS (BLOG IBS) ROUNG RIMS (WITCHELL PARK) ISL, E SATTERY (RUNWAY NO. 5) FENCE (MARAZINE AREA) ON C. HIGHWAY NO ICI) BULHHEAD (BOATHOUSE) BIRCRAFT CONTAINER	15 14 15 15 15 16 15 17 15 18 16 19 1520 1521	•	D- 8 D- 3 D- 3 D- 5 D- 3 D- 3							•										
	522   523   524   525   526   527   528   529	*****	0-3 0-3 0-3 0-3 0-3 0-3				•		2				:							
	1830 1831 1832 1833 1834 1838 1836 1837		0-3 0-3 0-3 0-3 0-3 0-3 0-3		. !															
	1539 1840 1541 1042 1545 1544 1546 1546	*	C. S C. S C. S C. S C. S															والمديدة أحج	TT A New T	
	1548 1549 1550 1551 1882 1553 1554 1555		8-3 9-3 8-3 8-3 8-3 0-4 0-4				•		2											
	1556 1557 3556 1559 1560 1561 1562 1563 1564	*	D- 4 D- 4 C- 4 C- 4 C- 4 C- 4 C- 4																	
TOOL HOUSE	1585 1566 1567 1868 1569 1570 1571 1572	•	D- 4 D- 4 D- 4 D- 4 D- 4 D- 4		<i>y</i>	•			•											
STWASE LIFT STATION OFFICE & MAINTENANCE BUILDING COMMUNITY BUILDING FIRE STATION MAINTENANCE GARAGE CHAPPEL & GLUB ROOMS SEWAGE LIFT STATION WADING POOL	1573 1574 1575 1576 1577 1578 1578 1578	•	0- 4 0- 4 0- 4 0- 4 0- 4						4											
WADINS POOL	1501 1502 1503 1504 1504 1506 (507 1500	•	D. 4 C. 4 C. 4 D. 8 D. 6 C. 6																	
APARTMENT BUILDING (P FAMILY)	1590 1591 1592 1593 1594 1596 1598	*	D 6 D 6 D 6 C 8 C 6 C 6				-							1 10 10 10 10 10 10 10 10 10 10 10 10 10						
	1896 1899 1600 1601 1602 1603 1604 1805	*	E- 6 E- 7 E- 7 D- 7 D- 7 D- 7						10			:	;	:						U.
	1606 1607 1608 1609 1610 1610 1611 1612	•	G- 7 G- 7 G- 7 O- 7 E- 7 E- 7				•					;								
( PAMILY)	16:4 16:5 16:6 16:7 16:8 19:420 1621	4	E-77 P-77 P-77 P-8 E-8 E-8												S	Leet	- [	ગ્	<u> </u>	
2	622 623 1424 1626 1826 1827	•	E. 8 E. 7 O. 8 D. 7 E. 0 E. 8				.,		•	• •							ema nemanany propy ga d	and the second second	a the grant of the	P.W.

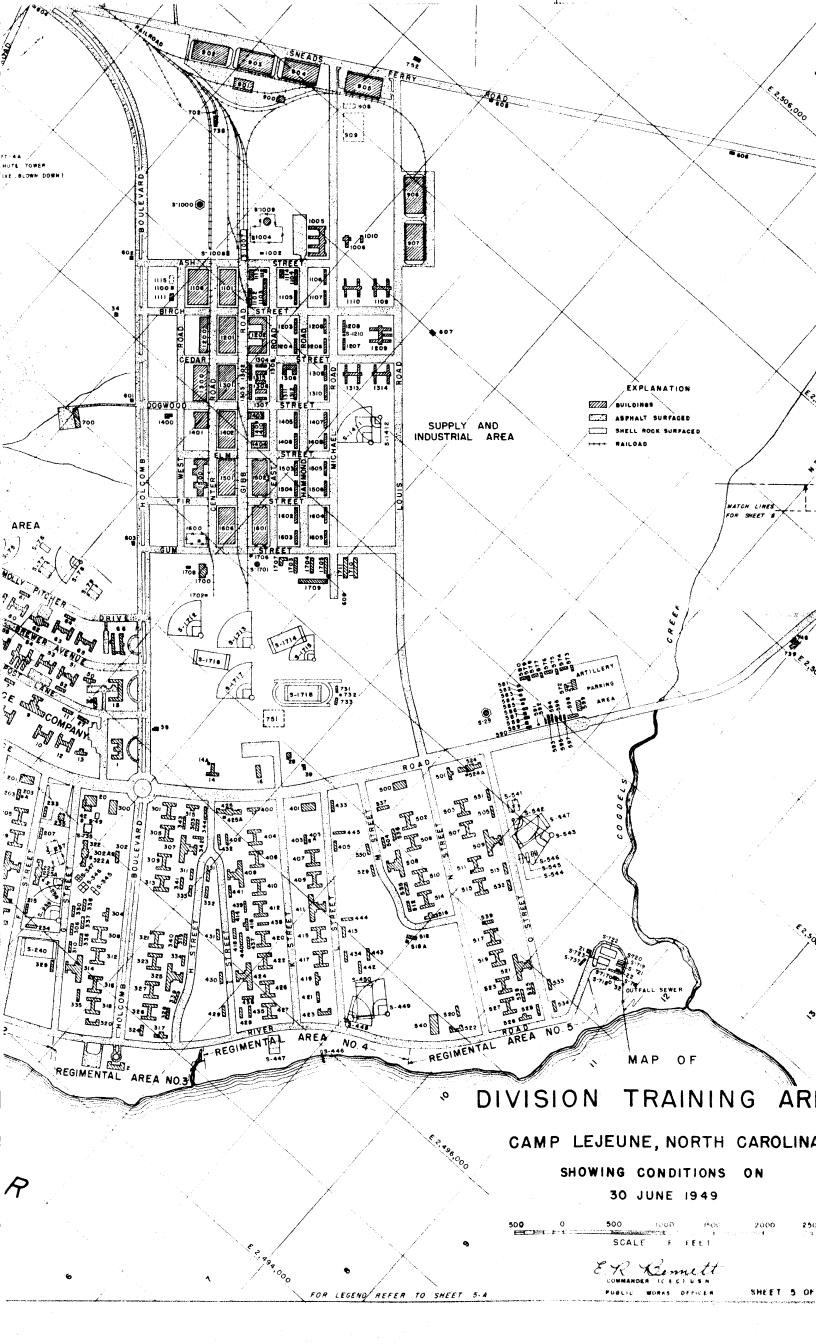
NURBER	SHEET NO	LOCATION	ACTIVITY	STRUCTURE	NUMBER	SHEET NO.	LOCATION	ACTIVITY	STRUCTURE	NUMBER	SHEET NO.	LOCATION	ACTIVITY	n ng puni din didigidika dina asas ya m
944 945 946 947 948 947 957 955 955 955 955 956 957 958 966 977 974 977 977 977 978 979 979 979 979 979 979		は、日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日		MARRIED ENLISTED MEN'S QUARTERS HEAD	1   1   2   1   2   2   2   2   2   2	化氯化甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		SASOLINE STORAGE TANK (28,000 CAL.)  (246,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (364,200 (300,000) (300,000 (300,000 (300,000 (300,000 (300,000 (300,000 (300,000) (300,000 (300,000 (300,000 (300,000 (300,000 (300,000 (300,000)	12 90 12 91 12 92 12 95	2 E E E E E E E E E E E E E E E E E E E	2.2 10531 6.1 6.4 6.4 6.5 5.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		SUARD MY WARE HOU!  ELECTRIC  OBSERVATI WATER  LOADING  LOADING  ORCASE  SREABE WASH RA LOADING  FIER !!  FUER
1037 1039 1040 1041 1049 1046 1047 1047 1059 1059 1059 1059 1058 1068 1069 1077 1079 1079 1079 1079 1079 1079 107	2 世紀	1		SQUADRON BUILDING (QUOMBET)  (U.S.)  (QUOMBET)  SEWAGE EJECTOR STATION SEPTIG TANK (SOY'S TOWN)  (E.M.R. AREA)  (MAGAZINE AREA)  (MAGAZINE AREA)  (GATE NO. 3)  GRIT CHAMBER HEAD (SEWAGE TREATMENT PLANT) SEWAGE PUMP HOUSE (M.O. Q.)  TRESTLE (SLUDGE CARS) SLUDGE CARS) SLUDGE OR NO. BED  BULKHEAD (GHERRY POINT DOCKS) PUMP HOUSE (SEWAGE, B.O.Q.)  (DEEP WELL)  PIT HOUSE  RESERVOIR (WATER) GAROLINE STORAGE TANK (28,000 GALS)		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	V-21 V-21 V-21 V-21 W-21 V-21 V-21 V-21 V-21 V-21 V-21 V-21 V		MASAZINE (\$MALL ARMS)  (PTROTEGRNIC) (SMALL ARMS) (PYROTEGRNIC) (\$MAKE DRUM)  (SMALL ARMS)  MASAZINE (IMERT) (PYROTECHNIC) (#1,500 ) (#2,500 ) (#2,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,500 ) (#3,750 ) (#3	- T 723   3 774   1 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2		1.5.3.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		TOOL SEWAGE OFFICE COMMINETER CHAPEL WADING WADING  APARTH

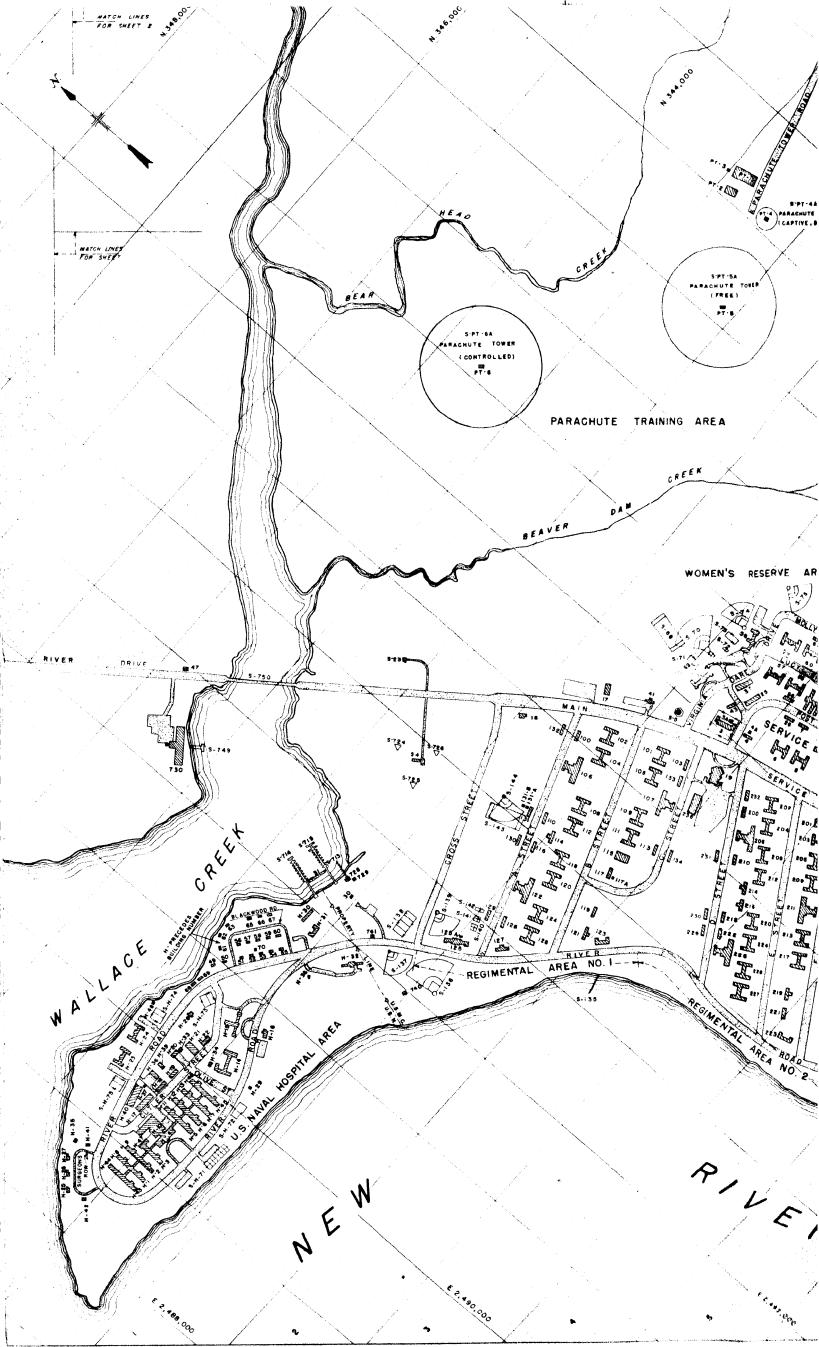












NUMBER	LOCATION	USE	NUMBER	LOCATION	USE	NUMBER	LOCATION	USE
300	REGIM	ENTAL AREA NO. 3 REGIMENTAL THEATER	500	REGIM	ENTAL AREA NO 5	M ~ 1	U S NAVAL	HOSPITAL AREA
301	10-M	BARRACKS	501 501	12-0 12-0	REGIMENTAL THEATER BATTALION ADMINISTRATION BUILDING BARRACKS	H-2	3-1	SICK OFFICERS QUARTERS MEDICAL WARDS
302 302 A	10-M	CAMP EXCHANGE STOREHOUSE	503	12-0	BARRACKS	H - 3 H - 4	3-1	MEDIGAL WARDS ADMINISTRATION BUILDING
303	10" M 9" M	BATTALION WAREHOUSE BATTALION ADMINISTRATION BUILDING	504	15-0	BATTALION WAREHOUSE BATTALION WAREHOUSE	H-5 H-6	3 - 1	MEDICAL WARDS MEDICAL WARDS
505 506	10°M 9°M	BARRACKS Battalion warehouse	506 507	12-0	BARRACKS , BARRACKS	H-7 H-8	3	UROLOGICAL DERMATOLOGY & SYPHILIS WA MEDICAL WARD & SICK OFFICERS QUARTI
3 0 7 5 0 8	10-M	MESS HALL Barracks	508	11-0	MESS HALL	H-9 H-10	3	MEDICAL WARDS MESS HALL AND RECREATION BUILDING
309 310	10-M	BARRACKS BATTALION WAREHOUSE	510	11 - 0	BARRACKS BARRACKS	H-11 H-12	3-1	MEDICAL WARDS
311	(0-M	BATTALION WAREHOUSE BAPRACKS	512	11-0 12-P	BATTALION WAREHOUSE BATTALION WAREHOUSE	H-13	3-1	NEUROPSYCHIATRIC & ISOLATION WARDS
313	10-M	BARRACKS MESS HALL	514	11-0 12-P	BARRACKS BARRACKS	H-15	4 · R	FAMILY HOSPITAL
315 316	10 M	BATTALION ADMINISTRATION BUILDING BARRACKS	516	11-0 11-P	BATTALION ADMINISTRATION BUILDING BARRACKS	H-17	3 H	MEDICAL WAPEHOUSE
317	9 N	BATTALION ADMINISTRATION BUILDING BARRACKS	518 518A	11-0	CAMP EXCHANGE CAMP EXCHANGE STOREHOUSE	H:19	3 · H	GAPAGE SHOPS
319	9-N	BATTALICH WAREHOUSE	519	11 - P	BARRACKS	H 51	4-H	POWER PLANT Laundry
320	8-N 9-N	REGIMENTAL ADMINISTRATION BUILDING Bannacks	520	11-P	REGIMENTAL INFIRMARY MESS HALL	H 22	4 · H 3 · H	WAREHOUSE Corps mens' barracks
322 322A	9-L 9-M	NON-COMMISSIONED OFFICERS CLUB Non-Commissioned Officers Club Storage	522 523	10-P	REGIMENTAL ADMINISTRATION BARRACKS	H-24 H-25	3. H	CORPSMENS' BARRACKS MEDICAL OFFICERS' QUARTERS
323 324	9-N	BAPRACKS Regimental infirmary	524 524 A	13-0	REGIMENTAL SERVICE CLUB REGIMENTAL SERVICE CLUB STOREHOUSE	H-26	2 - H 2 - H	MEDICAL OFFICERS' QUARTERS MEDICAL OFFICERS' QUARTERS
325 326	9-N 9-N	MESS HALL Barracks	525	11-0	BATTALION WAREHOUSE BATTALION ADMINISTRATION BUILDING	H 28 H 29	4- H	WARRANT OFFICERS' QUARTERS SEWAGE PUMPING STATION NO. 2
327 328	9- N	BARRACKS Battalion warehouse	527 528	11-0	BARRACKS BATTALION WAREHOUSE	H-30	5- H 5- H	MEN SERVANTS' QUARTERS Women Servants quarters
329 330	8-M 9-M	BATTALION WAREHOUSE BATTALION WAREHOUSE	529 530	11-0	BATTALION WAREHOUSE BATTALION WAREHOUSE	H- 32	5-1 4-H	BACHELOR OFFICERS QUARTERS TRANSFORMER HOUSE "8"
331	10-N	BATTALION WAREHOUSE	531	12-D	BATTALION WAREHOUSE BATTALION WAREHOUSE	H-34	4-H	TRANSFORMER HOUSE "E"
332	10-N	BATTALION WAREHOUSE Battalion warehouse	553	11-0	BATTALION WAREHOUSE	H-35 H-36	2-H	TRANSFORMER HOUSE "D" GARAGE
334 355	9 · N B · M	BATTALION WAREHOUSE School Building	534 535	11-0	BATTALION WAREHOUSE SCHOOL BUILDING	H-37 H-38	5- H 5- I	WELL E-1 Transformer House
336 337	9-M	SCHOOL BUILDING SCHOOL BUILDING	536	12-0 12-N	SCHOOL BUILDING SCHOOL BUILDING	H-39 H-40	3 H 3 H	BRIG MEDICAL WAREHOUSE
338 539	9-M 9-N	SCHOOL BUILDING	538	11-Q 12-P	SCHOOL BUILDING SCHOOL BUILDING	H-41	2 · H 2 · H	GARAGE GARAGE
340	9-N	SCHOOL BUILDING	540 9-541	10-P	TRAINING POOL TENNIS COURTS	H-43 H-44	5-1	WARD WARD
342	10-M	SCHOOL BRITDING	5:542 5:543	12-P	SOFTBALL FIELD	H-45 H-46	3-1	WARD WARD
344	10-M	SCHOOL BUILDING	S-544	12-P	BASEBALL FIELD VOLLEY BALL COURT	H-47	3-1	OCCUPTIONAL THERAPY WARD
5 3 4 5 5 3 4 6	9-14 9-14	VOLLEY BALL COURTS	\$-545 \$-546	12 P	HANDBALL COURT BADMINTON COURTS	H-48	4- H	ANIMAL HOUSE MEDICAL OFFICERS QUARTERS
9-347	9-11	BADMINTON COURTS	\$547	12 P	FOOTBALL FIELD	H-50	5- H 5- H	MEDICAL OFFICERS QUARTERS MEDICAL OFFICERS QUARTERS
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						H-56 H-57	5 · H	MEDICAL OFFICERS QUARTERS MEDICAL OFFICERS QUARTERS
					• .	H-58	5- H	MEDICAL OFFICERS QUARTERS
				FLEET MA	I RINE FORCE PARKING AREA	H-60	5- H	MEDICAL OFFICERS QUARTERS MEDICAL OFFICERS QUARTERS
			871	14-0	STORAGE	H-65	5- H 5- H	MEDIGAL OFFIGERS QUARTERS MEDIGAL OFFIGERS QUARTERS
			572	1410	OFFICE AND STORAGE	H-43	8- H	MEDICAL OFFICERS QUARTERS
ļ			574	14-0	OPEN SHED STORAGE-10 TH MARINES STORAGE	H-65 H-66	5-H 5-H	MEDICAL OFFICERS QUARTERS MEDICAL OFFICERS QUARTERS
			576 577	14-0	OPEN SHED STORAGE STORAGE	H-67 H-68	5-H 4-H	MEDICAL OFFICERS QUARTERS MARRIED CLYILIAN QUARTERS
			578 579	14-0	OPEN SHED STORAGE STORAGE-MEDICAL BATTALION	H-69	4- H	MARRIED CIVILIAN QUARTERS Transformer House
			581	14-0	OPEN SHED STORAGE STORAGE	S-H-7+ S-H-72	3: I 4: I	.O.LEY BALL COURTS
· \			582	13-0	OFFICE AND STORAGE OPEN SHED STORAGE	5-H-73	4-#	BASKETBALL COURTS TENNIS COURTS
		·	584	13-0	STORAGE OPEN SHED STORAGE	5-H-74 5-H-75	4-H 5-H	TENNIS COURTS TENNIS COURTS
	REGI	HENTAL AREA No 4	586	13.0	STORAGE OPEN SHED STORAGE			
400	11-M	BATTALION ADMINISTRATION BUILDING	560	13-0	STORAGE OPEN SHED STORAGE			
402	10-M	REGIMENTAL THEATER BATTALION WAREHOUSE	590	13-0	STORAGE			
403 403A	11-N	GAMP EXCHANGE Gamp Exchange Storehouse	591	13-0	SENTRY HOUSE STORAGE			
404	II-N II-N	BARRACKS BATTALION WAREHOUSE	594	13-0	STORAGE STORAGE			
406	10° N	BARRACKS BARRACKS	595	14-0	STORAGE Storage	1		
408	10-N	MESS HALL Barracks	597	14-0	OFFICE OPEN SHED STORAGE	}		
410	10-N	BARRACKS Megs Hall	599	14-0	STORAGE		PARACHUT	E TRAINING AREA
412	10-N 10-0	BARRACKS Battalion Warehouse				PT-2	14-6	PARACHUTE BULLDING
414	10-N	BATTALION WAREHOUSE Barracks				PT-3	14·6	PARACRUTE TRAINING BUILDING HEATING PLANT
4+6	10-N	BATTALION ADMINISTRATION BUILDING Barracks				97-4 3-PT-4A	14-6 14-6	PARACHUTE TOWER HOUSE PARACHUTE TOWER (GAPTIVE)
417	10- N	BATTALION WAREHOUSE				PT SA	13-6 13-6	PARACHUTE TOWER HOUSE PARACHUTE TOWER (FREE)
4:9	10 - N	BATTALION ADMINISTRATION BUILDING BARRACKS				PT- & S-PT- GA	11-F	PARACHUTE TOWER HOUSE PARACHUTE TOWER (CONTROLLED)
421	10-0	REGIMENTAL INFIRMARY BARRACKS			-			
425	9-0	REGIMENTAL ADMINISTRATION BUILDING MESS HALL			PUMP HOUSES			
425 425 A	11-M	REGIMENTAL SERVICE CLUB REGIMENTAL SERVICE CLUB STOREHOUSE	601	13-3	PUMP HOUSE AND WELL NO. 1			
426	10-0	BARRACKS	602	14 I	PUMP HOUSE AND WELL NO E PUMP HOUSE AND WELL NO. 3			
427	8- 0	BARRACKS BATTALION WAREHOUSE	604	15-6 18-K	PUMP HOUSE AND WELL NO 4 PUMP HOUSE AND WELL NO. 5			
429 430	9-0 9-N	BATTALION WAREHOUSE BATTALION WAREHOUSE	608 607	19-14 16-1	PUMP HOUSE AND WELL NO. 6			
431 432	10-N	BATTALION WAREHOUSE Battalion warehouse	607	13-L	PUMP HOUSE AND WELL NO 7 PUMP HOUSE AND WELL NO. 8			
433	11 · N 10 · O	BATTALION WAREHOUSE BATTALION WAREHOUSE	}					
435	9-0	SCHOOL BUILDING						
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5 450	10-P	BASEBALL FIELD FGGTBALL FIELD						
	i				DIVISION -	ΓRΔΙ	NIN	G ARFA

## DIVISION TRAINING AREA

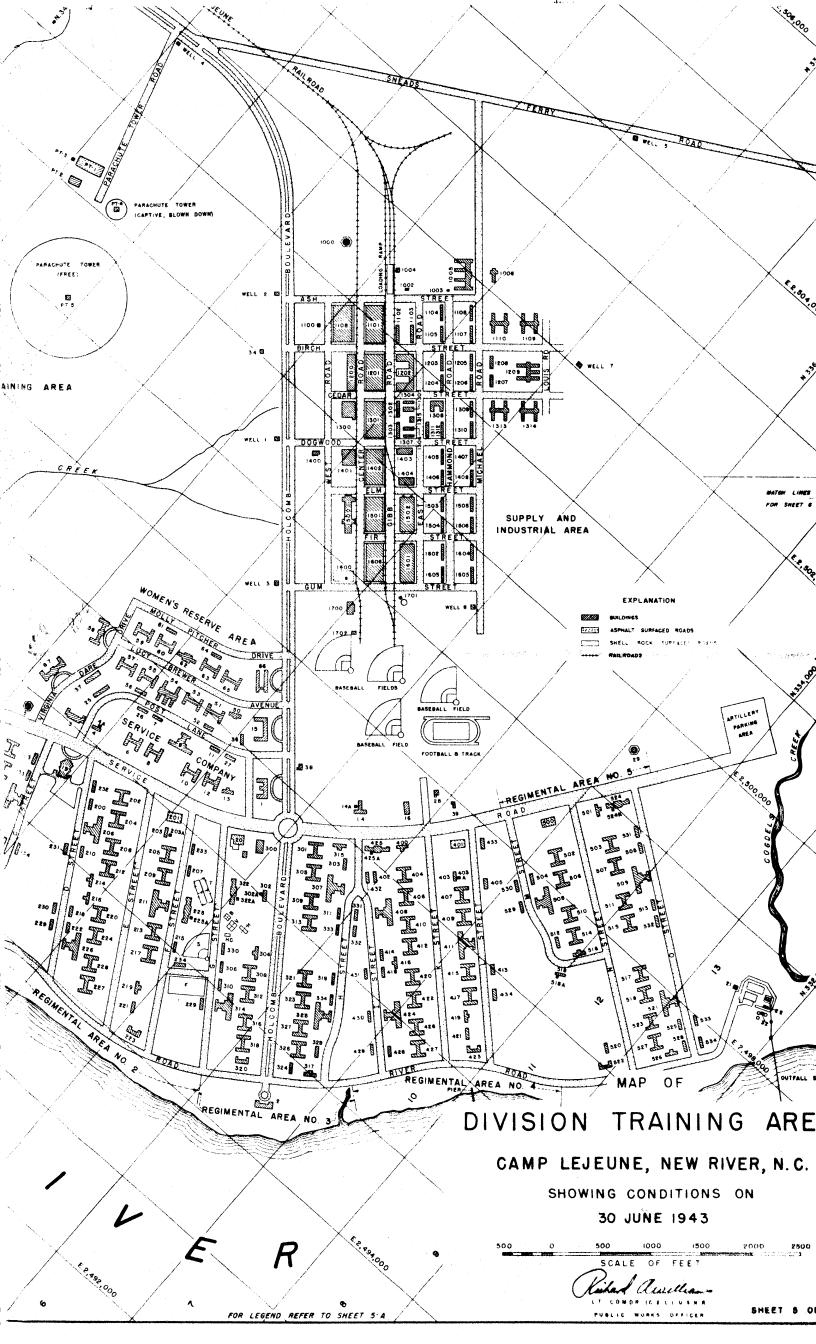
CAMP LEJEUNE, NORTH CAROLINA

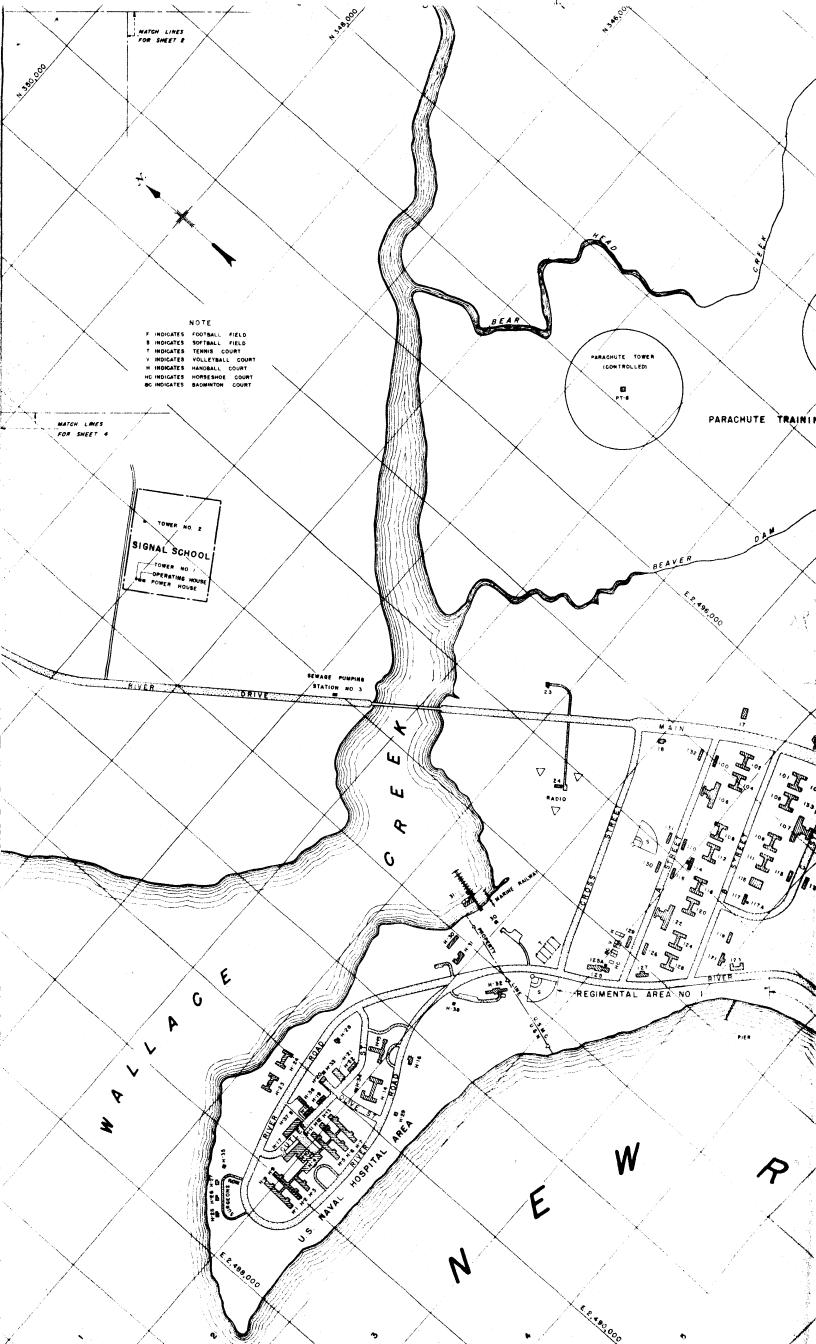
SHOWING CONDITIONS ON

30 JUNE 1949

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PUBLIC WORKS OFFICER

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CENTRAL HEATING PLANT 420,000 GAL FUEL DIL STORAGE TANK SCALE MOUSE EQUIPMENT STORAGE EQUIPMENT STORAGE FUEL PUMPING STATION COMMUNICATION WARRHOUSE HOT WELL EQUIPMENT STORAGE EQUIPMENT STORAGE EQUIPMENT STORAGE EQUIPMENT STORAGE BASEBALL FIELD FOOTBALL FIELD	BASEBALL FIELD BADMINTON COURT BADMINTON COURT TENNIS COURTS SOFTBALL FIELD SOFTBALL FIELD BASKETBALL COURT TENNIS COURTS SOFTBALL FIELD TENNIS COURTS	ORPS WOMENS RESERVE AREA BATTALION ADMINISTRATION BUILDING BARRACKS WAREHOUSE BARRACKS MESS HALL BARRACKS WAREHOUSE BARRACKS BACHELOR OFFICERS QUARTERS BARRACKS WAREHOUSE CAMP EXCHANGE AND SERVICE CLUB BARRACKS WAREHOUSE CAMP EXCHANGE AND SERVICE CLUB BARRACKS WAREHOUSE FIELD MEDICAL RESEARCH LAB. FIELD MEDICAL RESEARCH LAB. BACHELOR OFFICERS QUARTERS BOOTBALL FIELD TENMS COUNTS		BOAT MAINTENANCE BLDG. PAINT STORAGE BLDG. REGREATION PAVILION UTILITY BUILDING UTILITY BUILDING UTILITY BUILDING CLEAR WATER STORAGE BASIN COMMINUTORS RAILROAD SHOP BUILDING STORAGE BUILDING STORAGE BUILDING STORAGE BUILDING BOOSTER PUMPING STATION PARTS STORAGE PIER CONCRETE BRIDGE WALLACE CREEK FIELD HOUSE TARGET SHED AND OFFICE	MEDICAL WAREHOUSE UNIFORM SHOP & CENTRAL P.X. 8Y-PASS PUMPING STATION MARK I GUNNER TRAINER BUILDING RED GROSS BUILDING CHEMICAL STORAGE BUILDING COBBLER SHOP SEWAGE PUMPING STATION NO.3 WASTE WASH WATER TANK TRUCK REPAIR SHOP OIL STORAGE HOUSE MARINE RAILWAY BOAT DOCK SLUDGE DIGESTION TANK NO.1 SLUDGE DIGESTION TANK NO.2 SLUDGE DIGESTION TANK NO.2 PRIMARY SETTLING TANK NO.3 PRIMARY SETTLING TANK NO.2 PRIMARY SETTLING TANK NO.2 PRIMARY SETTLING TANK NO.3 SLUDGE DRYING BEDS RADIO TRANSMISSION TOWER RADIO TRANSMISSION TOWER	BATTALION WAREHOUSE BARRACKS BATTALION ADMINISTRATION BUILDING HOSTESS HOUSE STOREHOUSE CAMP DISPENSARY PROTESTANT CHAPEL FIRE HOUSE CAMP THEATER WATER TREATMENT PLANT SEWAGE PUMPING STATION NO. I SLUDGE PUMPING & CHLORINATION INCINERATOR RADIO TRANSMISSION BUILDING TALION SHOP BATTALION WAREHOUSE PHOTOGRAPHIC LABORTORIES WALLER GUNNERY TRAINER BUILDING 300,000 GAL. ELEVATED WATER TANK TOILETS BOAT HOUSE SLUDGE CONTROL STATION	CAMP HEADQUARTERS DIVISION HEADQUARTERS BRIS WASH ROOM AND STORE ROOM CAMP EXCHANGE CAMP EXCHANGE STOREHOUSE 300,000 GAL ELEVATED WATER TANK BARRACKS BATTALION WAREHOUSE BARRACKS MESS HALL BARRACKS
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## DIVISION TRAINING AREA

CAMP LEJEUNE, NEW RIVER, N. C.

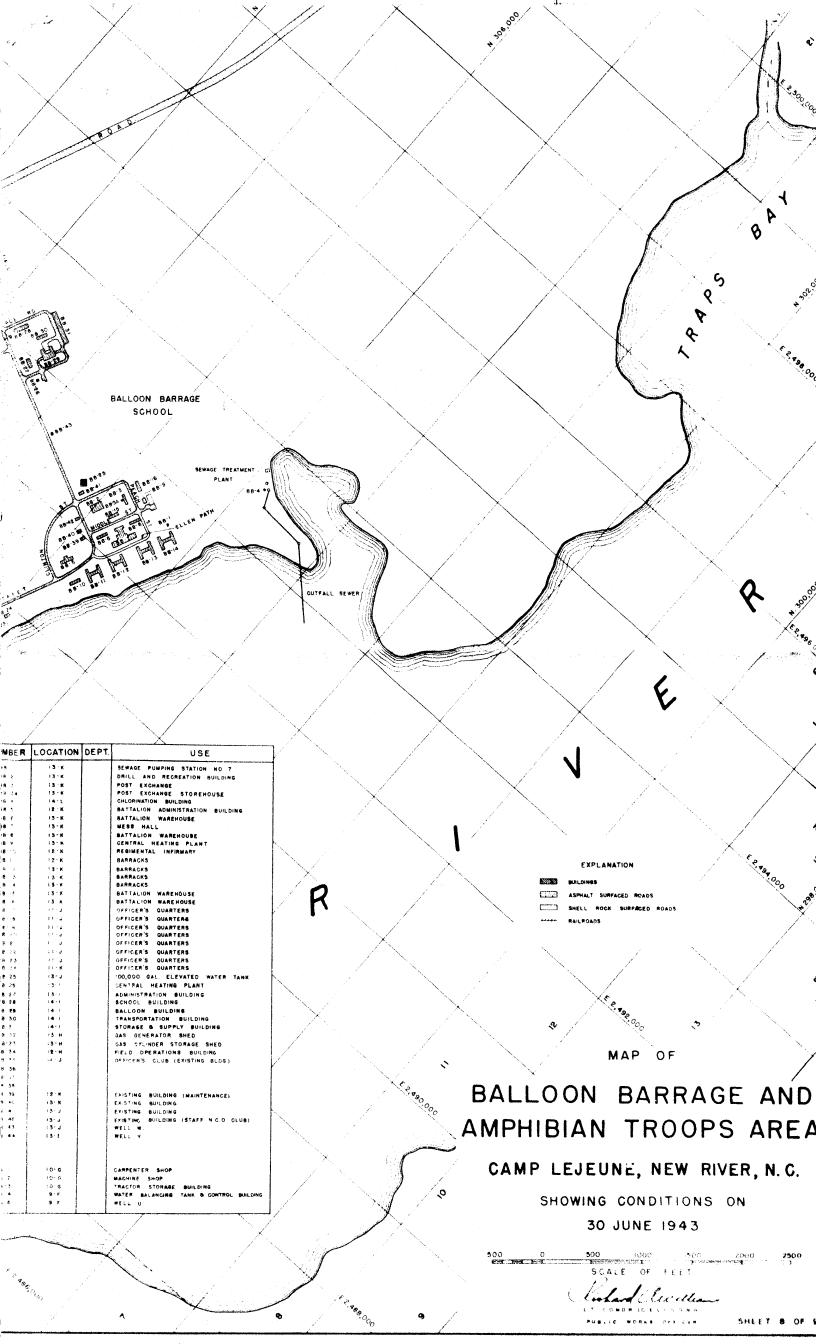
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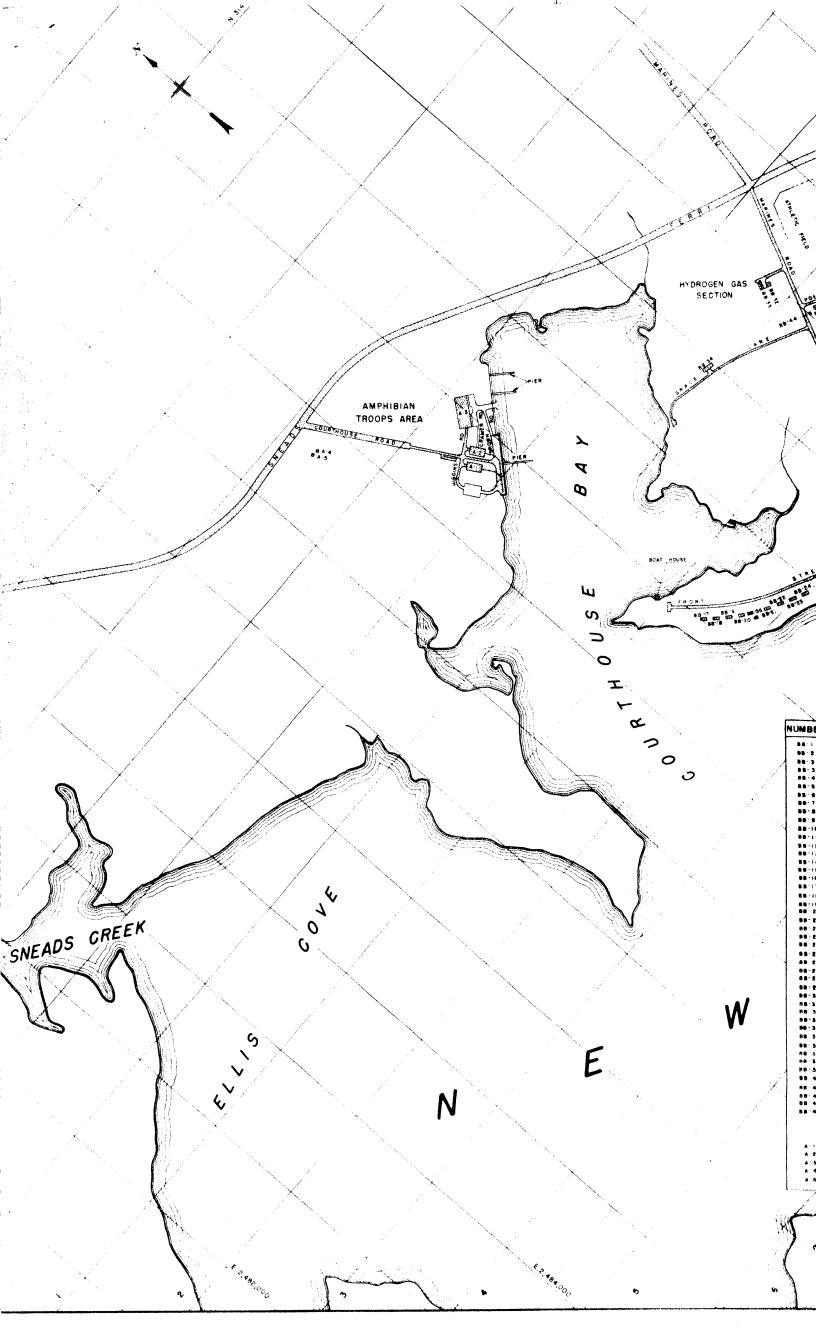
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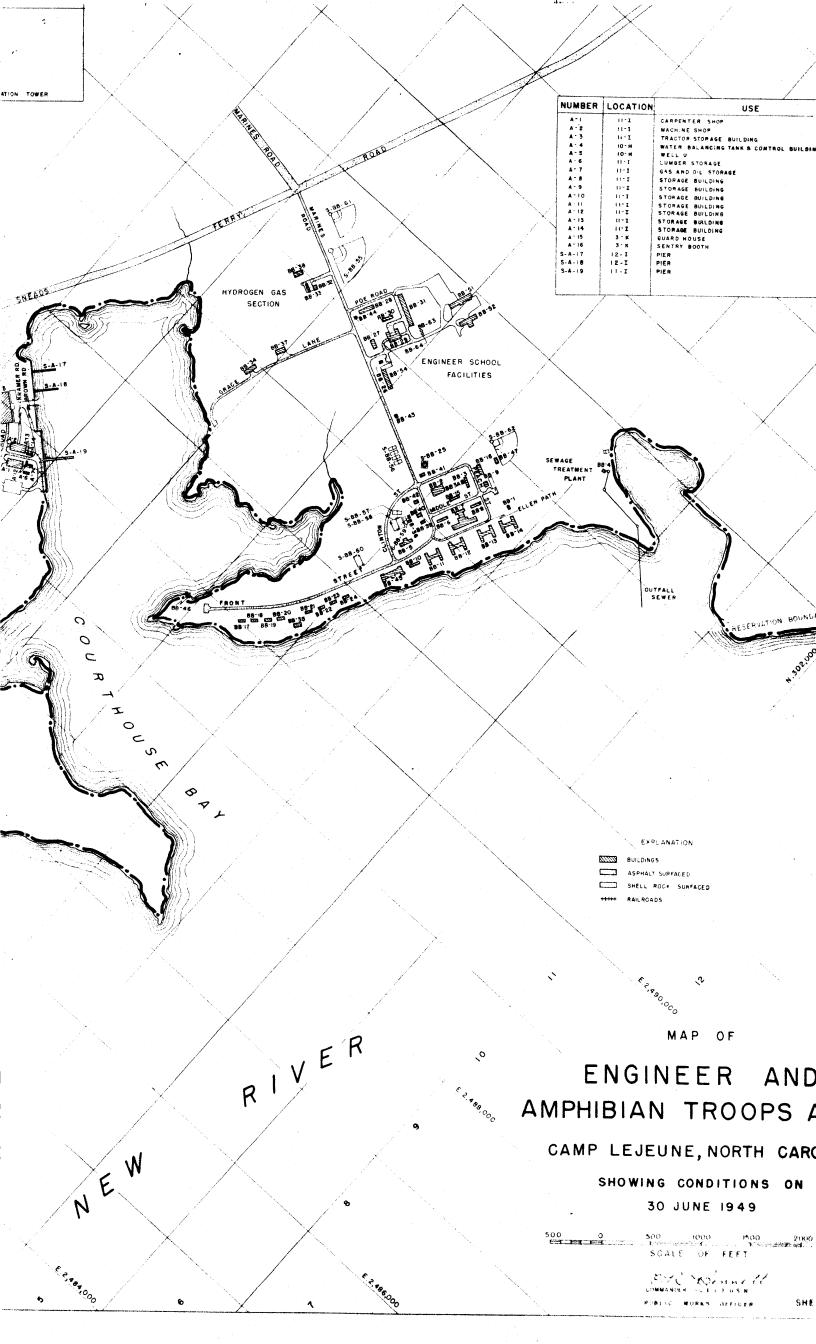
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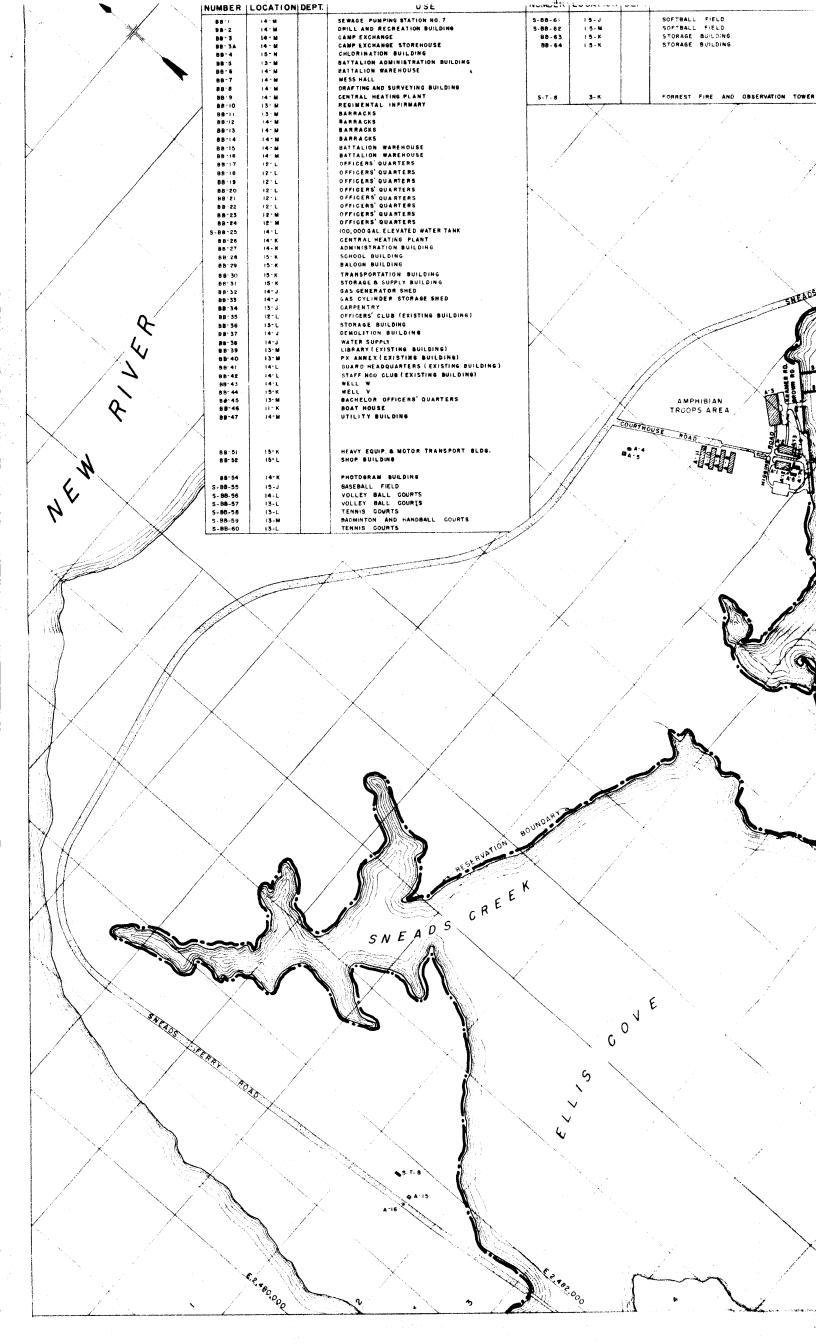
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2	11-14	1	WAREHOUSE	310	3 - 3		BARRACKS	N 18	4 - 3	
3	i ( - 🐞	t	BARRAGKS	319	10 P	1 1	BATTALION WAREHOUSE REGIMENTAL ADMINISTRATION BUILDING	H-:9 H-20	4 - J	
;	11 - Maria	4	MESS HALL Barracks	32)	10 · P		BARRACKS	H-Z0	5 - 3	
•	49.16	1	WAREHOUSE	322 322A	10.N		REGIMENTAL SERVICE CLUB	H 22	5-1	
	11-L	1	BARRACKS BACHELOR OFFICEN'S QUARTERS	322A	10.0		REGIMENTAL SERVICE GLUB STOREHDUSE BARRAGKS	# 25 - 74	4	
	18.1	ł	BARRACKS	324	9 - 5		REGIMENTAL INFIRMARY	H 23	3-1	
	1276	. 1	● BA発作ACKS WAREHOUSE	325	10 - P	1 1	MESS HALL Barracks	H-26	5	
	1 2 ° L		POST EXCHANGE AND SERVICE CLUB	327	10.8		BARRACKS	4 20	5	
,	ig- m	+	BARRACKS	326	10 P	1 1	BATTALION WAREHOUSE	H 29	5 ×	
4	12-M	- 1	WAREHOUSE BARRAGKS	329 330	10.0		BATTALION WAREHOUSE BATTALION WAREHOUSE	H-30		
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٠ .	11-1	- 1	BAGNELOR OFFICER'S QUARTERS	332	11 - 0	1 1	BATTALION WAREHOUSE BATTALION WAREHOUSE	H- 3 3	5.1	
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01	10° L 10° K		BARRACKS BATTALION WAREHOUSE BARRACKS BARRACKS	400 401 402	12 · 0 12 · P 11 · 0	EGIMEN	BATTALION ADMINISTRATION BUILDING Regimental theater Battalion warehouse	.000	SUPPLY	
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0.	9°1.	1	BÁRRACKS Barracks	408	12 - P	1 1	BAT TALION WAREHOUSE BARRACKS	0.04	10 1	6
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3	⊕ri ⊕ri	- 1	BARRACKS BATTALION WAREHOUSE	400	12 - P		BARRACKS BARRACKS	. 61	15 1	
4	<b>1</b> ° L	- 1	BATTALION ADMINISTRATION BUILDING	461	11.0		MESS HALL	0.93	14 L	
	9.4	1	RESIMENTAL THEATER BATTALION WAREHOUSE	412	11-0					
,	9 K	- 1	BAI (ALIGH WAREHOUSE		1 ,	1 1	BARRACKS	104	16 1	
			POST EXCHANGE	414	11-9		BATTALION WAREHOUSE	.104 (-05	4 4	١.
	9· L	ĺ	POST EXCHANGE POST EXCHANGE STOREHOUSE	414	11-0		BATTALION WAREHOUSE BATTALION WAREHOUSE BARRACKS	1.515	16 : 18 M	
•	<b>0</b> -2		POST EXCHANGE STOREHOUSE BARRACES	414 415 416	11-Q		BATTALION WAREHOUSE BATTALION WAREHOUSE BARRACKS BATTALION ADMINISTRATION BUILDING	( - 51号 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1-6 - 1 1-8 - M 1-8 - M 1-7 - L	
:			POST EXCHANGE STOREHOUSE	414 415 416 417 418	11-Q 11-P		BATTALION WAREHOUSE BATTALION WAREHOUSE BARRACKS BATTALION ADMINISTRATION BUILDING BARRACKS BATTALION WAREHOUSE	- 05 - 157	16 : 18 M	
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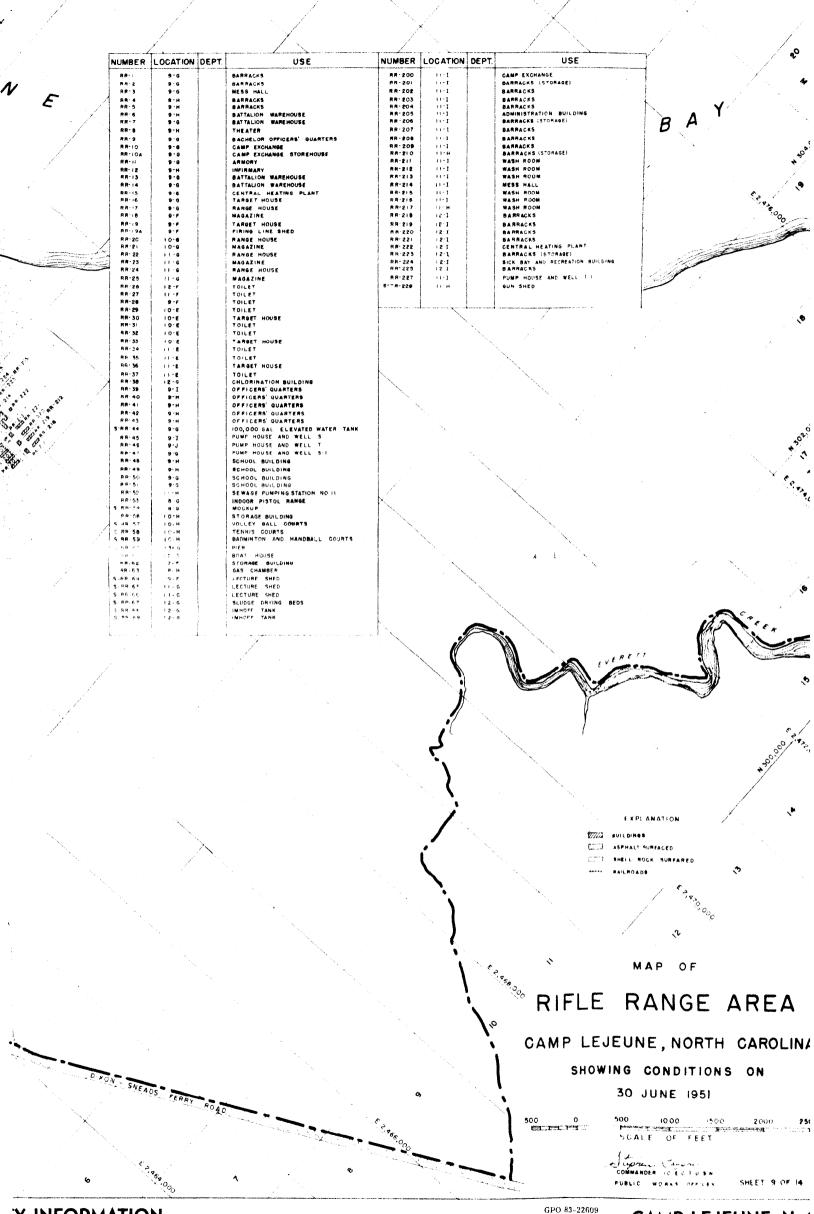
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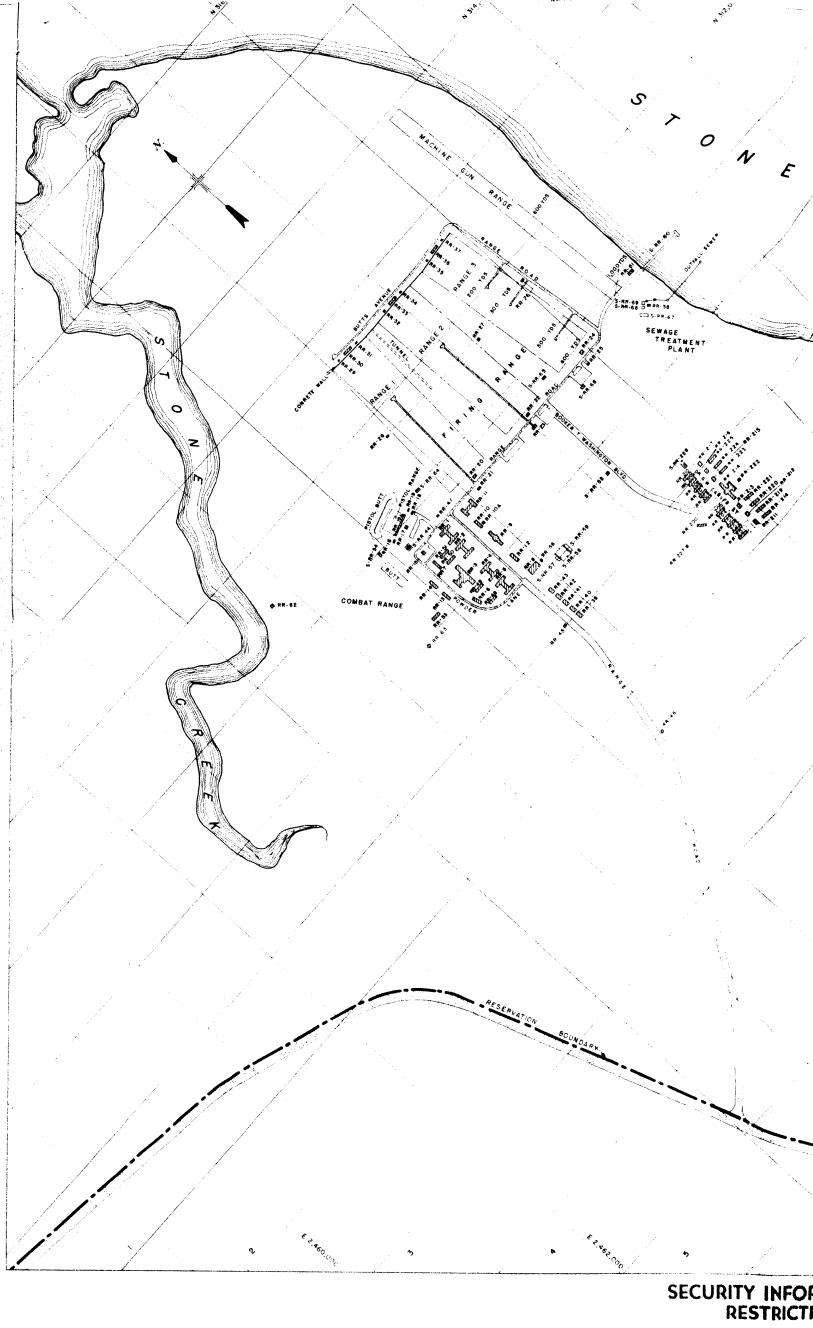


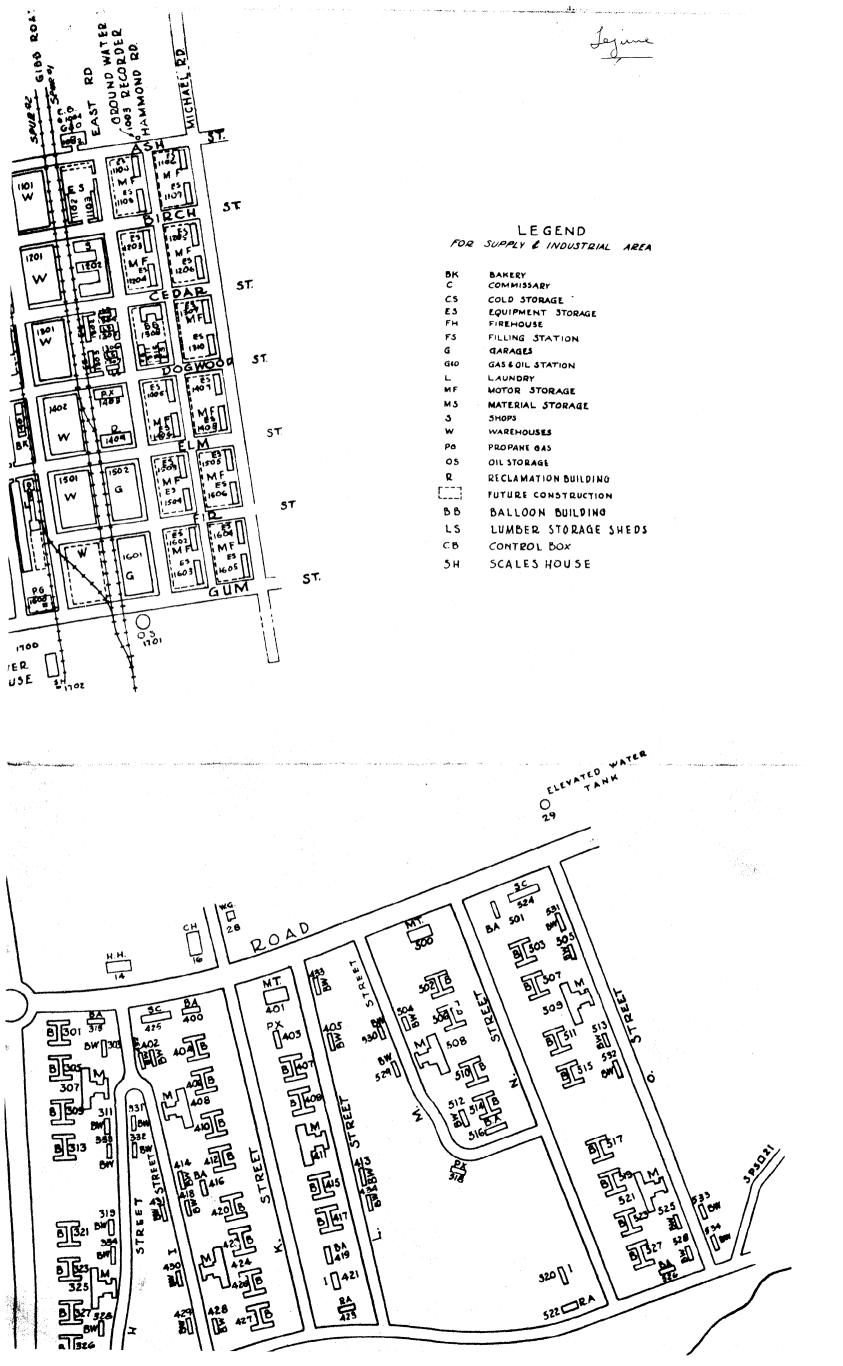




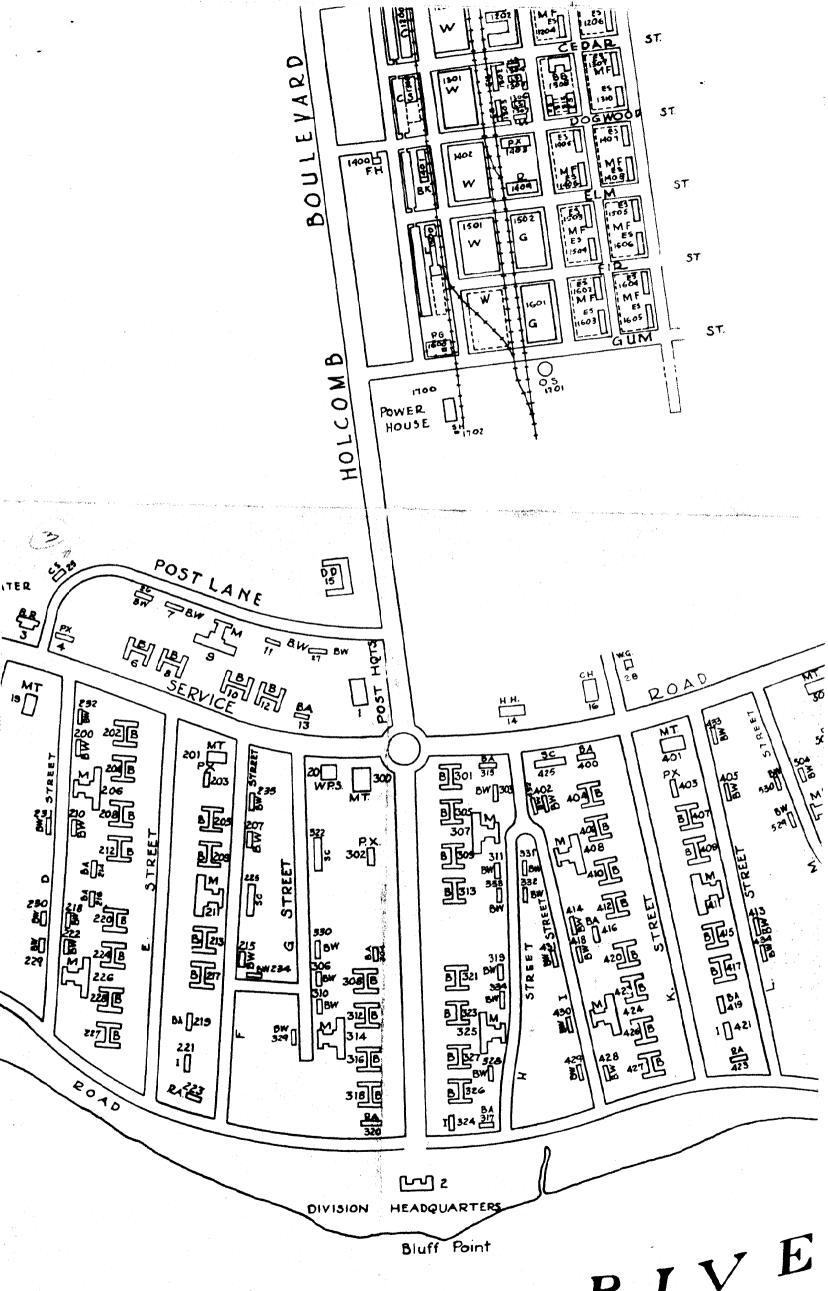


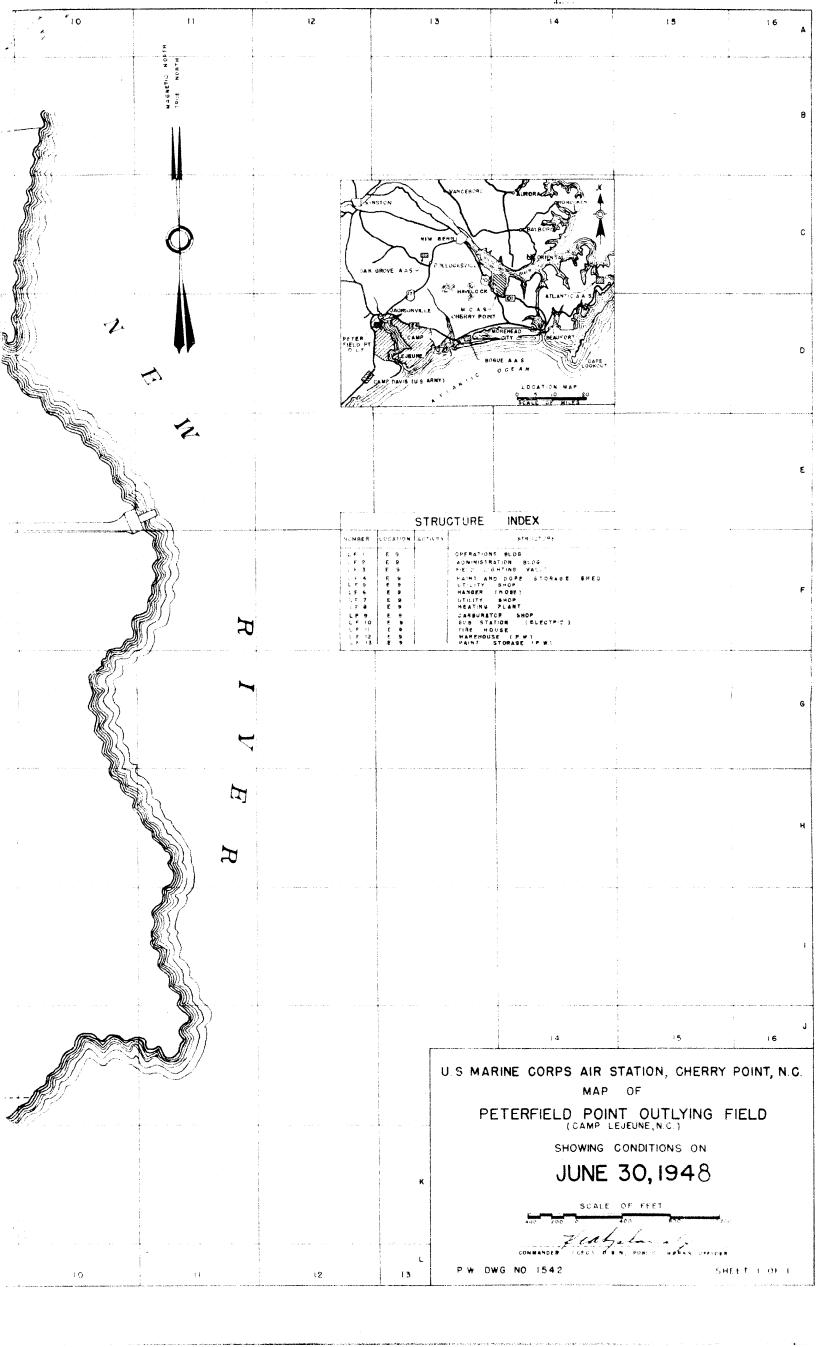


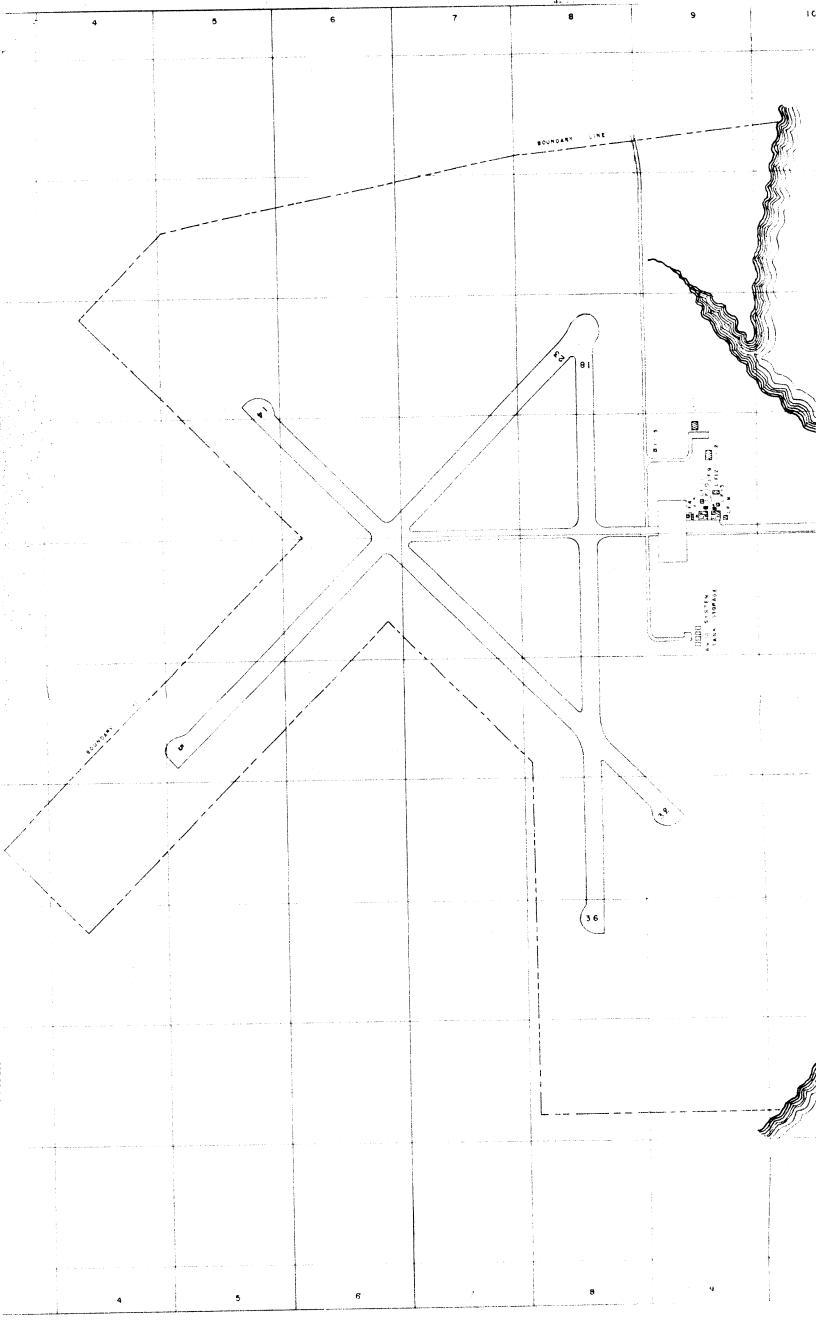




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Jon 27, 1982

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SANTIV

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1/27/82

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Clerry Point

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Pd by NC & L - Navy Cinil Egy Lab. -

703/644-5311 Econolodge - Springfield, Va.

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( Info + Resources Mynt Office - ) Hz Duel Curent enveronmental datas of MESA-Sibrary-Permits (NPDES for example. RASO-Radiologial-)

Hozardans Waste Mynt Plans - Carl Heeling-Seper fund notification Junes. Fort farm -John Anderson- PCB - Hact Sheet for U.S. Navio Proposed Landing Craft

air Cushion Operational Base Siting

Press Release

Ton Pectins

Code 2022E

Petruary 11, 1982

The U.S. Navy is developing an advanced amphibious assault craft capability that is almost as revolutionary as the inception of the helicopter. The new amphibious craft, classified as the Landing Craft, Air Cushion (LCAC), utilizes existing air cushion vehicle technology and is scheduled for fleet introduction in 1986.

The LCAC will be a high speed (50 mph over water), over-the-beach, ship-to-shore, amphibious craft capable of transporting a 60-ton payload. The wide design (87 ft. x 47 ft.) and inherent stability of the LCAC will permit it to load up to three lines of trucks, jeeps, and other module equipment by way of its bow and stern ramps. The LCAC is truly amphibious and can make the transition from water to land with ease. Once ashore, it can operate over mudflats, beaches, sand dunes, marshes, and estuaries at relatively high speeds.

The LCAC will provide several new dimensions of survivability for the assault forces it carries to the beach:

- o The high craft speed and maneuverability will allow the LCAC to remain "over the horizon" beyond enemy visual observation until the last possible moment. This capability will result in far fewer casualties than expected with beach assaults by conventional craft.
- o The LCAC will ride on a cushion of air and thus will be able to cross beach obstacles and enemy mines with minimum susceptibility to damage.
- o The LCAC coastal penetration capability will open up a full 70% of the world's beaches to LCAC assault as compared to 17% of the beaches available to existing conventional craft.

A necessary component of the LCAC program is the development of associated support facilities, including an east coast operational base from which the LCAC will function. It is anticipated that the base will provide support for 54 LCACs and associated functions. Candidate sites have been restricted to a geographical area defined by a circle of 50-mile radius around the Naval Amphibious Base at Little Creek, Virginia.

All military installations within the area of consideration that had approximately 50 acres of potentially available land and a mission not obviously incompatible with LCAC operations were surveyed. Ten candidate sites were evaluated using specific criteria relating to ocean access, available support facilities, mission compatibility, environmental factors, and physical characteristics. Based on that evaluation, the following sites are considered prime candidates for selection as an LCAC base:

Press Release Tom Peeling Code 2022E February 11, 1982

Naval Amphibious Base, Little Creek, Virginia Naval Amphibious Base Annex, Camp Pendleton, Virginia

In compliance with the National Environmental Policy Act (NEPA), the Navy will complete a Draft Environmental Impact Statement (DEIS) to assess the potential impacts of siting LCAC operational bases at the above listed prime candidate sites. Factors such as noise, generated waves, craft speeds, training beach location, and physical placement of the base will be addressed in the DEIS.

As a first step in the environmental documentation process, a public scoping meeting will be held March 2, 1982 at 7:30 P.M. at the Thalia Elementary School (Cafeteria), 421 Thalia Road, Virginia Beach. The purpose of this meeting will be to present more detail on the proposed project and to receive public comments concerning areas/topics of potential environmental concern.

When the DEIS is completed, a public notice of its availability for review by the public will be announced in order that interested persons may comment on that document. A Final Environmental Impact Statement (FEIS) will incorporate all comments received from the public. The Navy will submit the DEIS and FEIS to appropriate federal, state, and local agencies as required by law. No decision to begin construction will be made until the environmental process is complete, including publishing a Public Record of Decision.

Point of contact for information directly concerning the public scoping meeting and the environmental documentation process is:

Commander
Naval Facilities Engineering Command
Hoffman Building II, 200 Stovall Street
Alexandria, Virginia 22332
ATTN: Tom J. Peeling, Code 2022E.

BRIEfing JAS Cheery Point

Jan 27, 1982

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Please insert in your 1AS notebook they were distributed last week- y you did not receive - please see and.

Thenkyon!

☐ This report contains significant waste disposal information ☐ This report contains additional names for interviews.  Name of Base	
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AddressCity, State, Zip Code	
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ADDITIONAL CONTACTS:	
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	ACTIVITY
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SECT	ICN II. DISPOSAL OF SPECIAL WASTES
	This section of the fact form will ask about waste disposal sites that are or have been operated by the activity. If a disposal site(s) is identified in this section, section III should be filled out.
	To complete this section (and section III, if necessary), activity records should be examined and knowledgeable activity personnel should be interviewed. Long-time activity employees will be invaluable in this effort, since they will be familiar with past disposal operations. If deemed necessary to accurately complete this section, preliminary field investigations may also be performed (however, this fact form does not warrant extensive investigations such as soil borings and waste analyses).
or s	ave any of the following techniques ever been used to dispose of chemical special wastes on base? Do not include trash or garbage (check the opriate boxes).
	Operations Present/Pass Solvent Pit Acid/Caustic Pit Slurry (Chemical Mixtures) Pit Waste Oil/Oil Sludges Pit Evaporating Pit Grease Pit -Surface Spreading - Open Burning (Examples: Firefighting Training, Ordnance Waste). Incinerator Land Disposal with State Permit Padractic Waste Taurical

Any other disposal operations?\* Please explain

A-17 /

<sup>\*</sup>Do not include industrial waste treatment/pretreatment facilities that are subject to pretreatment regulations or NPDES permits. Disposal of industrial sludge should be included, however.

		ACTIV	ITY				
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SEC	TION II. DISPOSAL OF SPECI	AL WASTES	(CONTINUED)				
2.	at the activity. If the a the box in column 1 (some	rastes (whe activity has of these a is checked	d to find out whether small-scale disther intentional or not) may have occes ever run an operation listed below, operations may have been noted in second to column 2 and check the box if is "yes."	urred check			
	Refuse disposal site	Column 1	Did this site ever receive chemicals or special wastes?	Column 2			
	Pest control shop		Have pesticides or pesticide rinse- ates ever been disposed of any- where on a regular basis?				
	Firefighting training using open burning	1_1	Were substances other than oil (e.g., solvents) burned?				
	Ordnance operations	<u> </u>	Were ordnance wastes ever disposed of on base?				
	Storage of chemical materials or special wastes in a specified area		Have these materials ever leaked or otherwise escaped confinement?				
3.	Section III should be completed for each disposal site identified in question I of this section. Section III should also be filled out for any significant disposal site identified in question 2. If the activity has NEVER disposed of chemicals or special wastes on base, completion of section III is not required.						
4. Have any accidents involving hazardous materials ever occurred at the ity? If so, briefly describe the incidents.							
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	ACTIVITY	
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SEC	CTION II. DISPOSAL OF SPECIAL WASTES (CONTINUED)	
5.	Are/were there any chemical or special waste disposal s nizations outside the activity's fenceline which may pr hazard to on-base personnel? Did the activity ever ope sites on property which has since been excessed? Please	resent a current
6.	In enswering the questions in this section, was reliab on past operations? How far back in the past? What s Please explain.	
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7.	. Addited and I compared	
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This section should be completed only if active or past disposal sites were identified in section II. Section III should be completed for each site. As an example, say your activity has three sites. Make three copies of section III and complete them. Assign a number to each site (1, 2, and 3) and enter it in the upper right-hand corner.  Is this disposal site currently in operation or has it been closed?  What is/was the name of the site (e.g., slurry pit)?  Where is/was the site located (provide a description and give activity map coordinates)?		UIC
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	De	scribe how the site is/was operated.
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	•		SITE NUMBER	
SEC.	TION III. DETAILED DISPO	OSAL INFORMATION (CONTINUE	D)	
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6.	As well as possible, de:  Type of Waste	scribe the wastes that ent  Quantity	ered the site. Origin	
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Briefly describe animal and peculiarities (e.g., dying	plant life s	urrounding the s	
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Do personnel live or work n	ear the site?	Please explain	•
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•	ACTIVITY
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	SITE NUMBER
SECT	ION III. DETAILED DISPOSAL INFORMATION (CONTINUED)
. 10.	Have there been any incidents or complaints concerning this site? Explain.
11.	How close is the site to the activity's boundaries?
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12.	Additional comments
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APPENDIX A MONITORING-WELL CONSTRUCTION

### APPENDIX A--MONITORING WELL CONSTRUCTION

### A-1. RECOMMENDATIONS FOR GROUNDWATER MONITORING

A-1.1 Monitoring Well Inventory. Wells that have been improperly abandoned or that have been out of service for a long period are potential conduits for contamination from the water table aquifer to those deeper. Many of the wells at Camp Lejeune have been abandoned or are no longer in service, but there is not a complete inventory of the location or abandonment procedure.

It is recommended that the status of wells at the installation be clarified by determining the location of all the wells that have ever been drilled at the base. A comparison of the complete list of wells with the wells now in use will show those that have been abandoned or that are out of service. If these wells are close to and downgradient of a confirmed hazardous waste site, a further assessment of the wells' status should be made. This assessment should include the reason for abandonment or nonuse, the date when the well was last used, how it was abandoned (if applicable), future plans for the well (if not yet abandoned), and a review of any chemical/physical data available.

A satisfactory abandonment procedure involves filling the well and gravel pack with grout so that contaminants cannot migrate between aquifers.

A-1.2 Monitoring Well Installation. Each monitoring-well should be constructed so that it has both an efficient hydraulic connection to the surrounding water table aquifer and an effective seal against the migration of surface waters into the borehole.

The following techniques and materials are recommended to accomplish these two aims (Figure A-1):

- Drill an 8-inch borehole to 10 feet below the water table, as noted during drilling. Collect representative lithologic samples every 5 feet during drilling for preparation of the lithologic log.
- 2. Install a string of threaded, flush-joint, 2-inch, schedule 40 PVC well casing and well screen. Set the top of a 10-foot length of PVC well screen at the water table if the water table is within approximately 5 feet of land surface. If the water table is encountered at greater depths, some portion of the well screen should be set above the water table. The recommended well-screen slot size is 0.010 inch. The top of the casing should extend approximately 12 to 18 inches above ground level.
- 3. After the well casing and screen have been installed in the borehole, place a filter pack of fine- to medium-grained quartz sand in the annular space from the bottom of the hole to approximately 2 feet above the top of the screen.

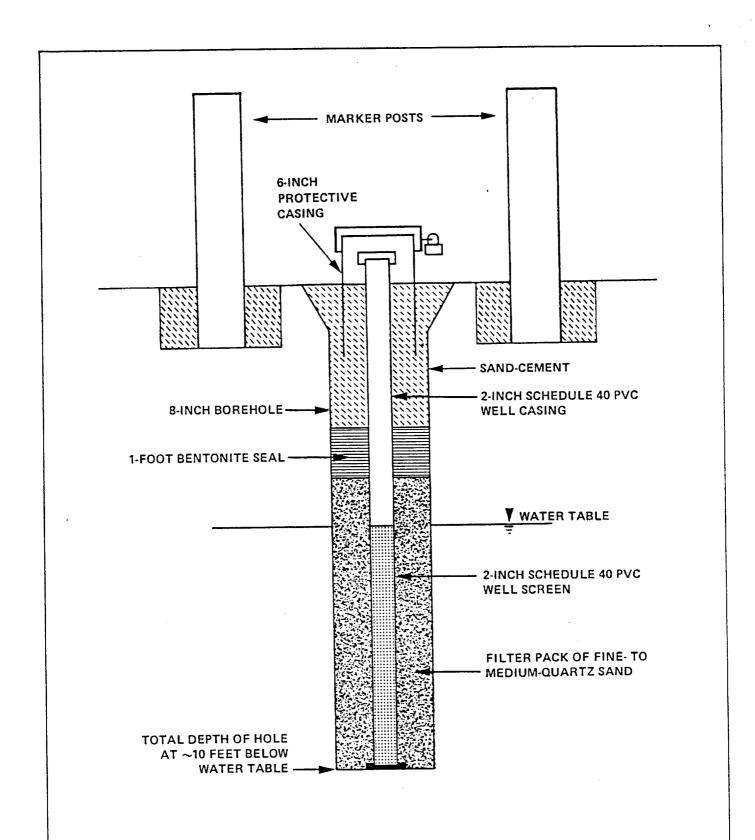


FIGURE A-1. Recommended Monitoring-Well Construction

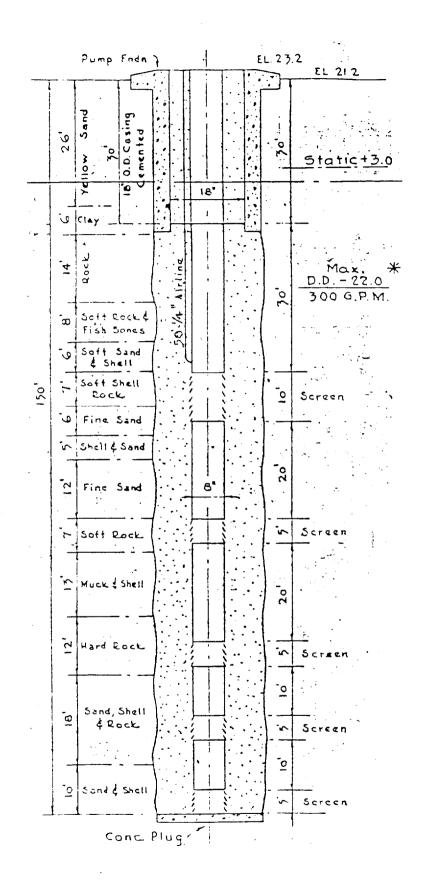
- 4. Place a 1-foot seal of bentonite pellets in the annular space on top of the filter pack.
- 5. Fill the remainder of annular space with a sand-cement grout composed of two parts dry weight of sand to one part of cement with not more than 6 gallons of clean water per bag of cement (94 pounds or 1 cubic foot).
- 6. Install a 5-foot-long, 6-inch diameter, steel protective casing 3 feet into the grout. The protective casing should have a lockable steel cap and a padlock. The above-ground portions of both the protective casing and the PVC well casing should be vented with a 1/8-inch hole to permit the water in the well to fluctuate freely.
- 7. Install two 8-foot-long, 4-inch diameter, black steel marker posts adjacent to each well. Bury each marker post 3 feet and set it in sand-cement. Paint the upper 2 feet of each marker post day-glo orange.
- 8. Establish the vertical elevation and horizontal coordinates of the top of the casing (cap removed) to second order accuracy.

It may be necessary to vary the placement of the top of the screen and the thickness of the bentonite seal and the sand-cement grout if the water table is less than 5 feet below land surface.

# APPENDIX B--ABBREVIATIONS LIST

Abbreviation	<u>Term</u>
AID	Accident Incident Data Bank
AMTRAC(s)	Amphibious Tractor(s)
BAT	Best Available Technology
BT	Bombing Target
CIA	Controlled Industrial Area
CMC	Commandant Marine Corps
COD	Chemical Oxygen Demand
CNO	Chief of Naval Operations
CSRS	Confirmation Study Ranking System
DPDO	Defense Property Disposal Office
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
FMF	Fleet Marine Force
FSSG	Force Services Support Group
GWCI	Ground Water Contamination Indicators
HOLF(s)	Helicopter Outlying Landing Field(s)
IAS	Initial Assessment Study
IWTP	Industrial Waste Treatment Plant
LANTNAVFACENGCOM	Atlantic Division, Naval Facilities Engineering
	Command
MACS	Marine Air Control Squadron
MAG	Marine Aircraft Group
MCALF	Marine Corps Auxiliary Landing Field
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MC Bul	Marine Corps Bulletin
MCOLF	Marine Corps Outlying Landing Field
MEK	Methyl Ethyl Ketone
NACIP	Navy Assessment and Control of Installation Pollutants
NAVAIREWORKFAC	Naval Air Rework Facility
NAVFACENG COM	Naval Facilities Engineering Command
NBC	Nuclear, Biological, Chemical
NCBC	Naval Construction Battalion Center
NEESA	Naval Energy and Environmental Support Activity
NCIC	National Cartographic Information Center
NREA	Natural Resources and Environmental Affairs
NSWC	Naval Surface Weapons Center
OE SO	Ordnance Environmental Support Office
OLF(s)	Outlying Landing Fields
POL	Petroleum, Oil, Lubricant(s)
PWDM	Public Works Development Map
RCRA	Resource Conservation Recovery Act
SAFEORD	Safety Ordnance File
STP	Sewage Treatment Plant
TCE	Trichloroethylene
THM	Trihalomethane(s)
WAR	Water and Air Research, Inc.
WTP	Waste Treatment Plant
2d FSSG	Second Force Service Support Group

APPENDIX C LOGS OF WELL NOS. HP-613 and HP-616



HP-613



### UNITED STATES MARINE CORPS

### MARINE CORPS BASE

### CAMP LEJEUNE, NORTH CAROLINA 28542

BO 11090.1B MAIN/DDS/th 28 May 1981

### BASE ORDER 11090.13

From: Commanding General To: Distribution List

Subj: Oil Pollution Prevention and Abatement and Oil and Other Hazardous Substances Spill Contingency Plan

Ref:

(a) MCO P11000.2A

(b) Resource Conservation and Recovery Act (RCRA) of 1976 (NOTAL)

(c) Clean Water Act (NOTAL)

(d) Oil Spill Prevention Control and Countermeasure Plan of 10 June 1978, Camp Lejeune, NC (NOTAL)

Encl: (1) Oil and Hazardous Material Spill Prevention, Containment, Cleanup and Disposal Guidelines (2) Oil and Other Hazardous Material Spill Contingency Plan

1. <u>Purpose</u>. To revise existing oil and other hazardous material related pollution abatement and prevention procedures for Marine Corps Base, Camp Lejeune and Marine Corps Air Station (Helicopter) (MCAS(H)), New River and to assist the Commanding General in the implementation of reference (a) with respect to pollution abatement.

#### 2. Cancellation. BO 11090.1A.

3. Policy. It is the continuing policy of the Commanding General to actively participate in environmental pollution abatement, to take positive planning and programming action to abate and correct oil and other hazardous materials, related pollution problems and to incorporate appropriate pollution control and prevention facilities in all new construction aboard this installation. The intent of this policy is to carry out the applicable measures of references (a), (b), (c) and (d) and to prohibit the discharge of oil, oily mixtures and other hazardous substances except in designated areas by authorized personnel.

### 4. Responsibilities

- a. Base Maintenance Officer has overall responsibility for:
- (1) Maintenance of water pollution abatement facilities and the central storage and related collection and transportation of waste petroleum products.
- (2) Providing personnel required for routine monitoring, surveillance, upchannel reporting and enforcement of unauthorized discharges of oil and other hazardous materials and related significant environmental problems of an ongoing nature involving the handling and disposal of petroleum products and other hazardous materials regulated by references (a), (b) and (c).
- b. Commanding Officers/Area Commanders are charged with the responsibility of preventing spillage and other unauthorized discharge of oil and other hazardous materials within their own areas and will develop and implement plans and procedures which are consistent with applicable regulations and enclosures (1) and (2) for preventing, reporting, containing and cleaning up such spillage or unauthorized discharge.
- c. Director, Natural Resources and Environmental Affairs Division, Base Maintenance Department or his representative will assume responsibility of On-Scene Coordinator (OSC) upon arrival at the scene of an oil or other hazardous material spill in accordance with procedures outlined in references (a) and (b) and enclosure (2).
- d. Base Fire Chief or his senior representative will provide initial response and other assistance with any spill of oil or other hazardous material as outlined in enclosure (2), until a verification is made that the reported spill has occurred in an aircraft operating area aboard MCAS(H), New River. If the latter situation exists, the Base Fire Chief will provide a standby crew to assist, if the crash crew MCAS(H), New River is unable to contain the spill within the aircraft operating area.
- e. Crash Crew, MCAS(H), New River will develop and implement a written procedure for the initial response to and containment and cleanup of oil and other hazardous materials spills in aircraft operating areas aboard MCAS(H), New River. Procedures will be consistent with applicable regulations and enclosure (2).
- 5. Action. Discharge of oils or other hazardous materials on or into the grounds and streams of this installation is prohibited. Cognizant officers will take necessary action to assure compliance. Commanding Officers/Area Commanders shall conform to the standards and criteria set forth in enclosures (1) and (2).

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6. <u>Applicability</u>. Having received the concurrence of the Commanding Generals, 2d Marine Division, FMF; 2d Force Service Support Group, (Rein), FMFLANT; and the Commanding Officers of the Marine Corps Air Station (Helicopter), New River and tenant units; Naval Regional Medical Center; and Naval Regional Dental Center, this Order is applicable to those Commands.

J. R. FRIDELL Chief of Staff

DISTRIBUTION: A BMAINO (100)

### OIL AND HAZARDOUS MATERIAL SPILL PREVENTION, CONTAINMENT, CLEANUP, AND DISPOSAL GUIDELINES

- 1. The prevention of oil and hazardous-material spills and the resultant environmental damage is the responsibility of all Commanders.
- 2. All Commanders and Department Heads will publish and prominently post directives setting forth detailed policies and procedures for the control and prevention of oil and hazardous-substance pollution specifically applicable to their organization.
- 3. All Commanders and Department Heads will take the following actions:
- a. Take positive measures to prevent spills of oil and hazardous substances to include a review of the Command's maintenance and operational procedures.
  - b. Conduct frequent inspections of areas and facilities assigned to ensure compliance with published procedures.
- c. Establish immediate action procedures for the amelioration of pollution which may result from oil and hazardous-substance spills, to include the stocking of materials required to carry out the procedures.
- d. Ensure that all personnel within their Command are thoroughly indoctrinated regarding the environmental impact of oil and hazardous substance spills and proper disposition of oil and hazardous substances.
  - e. Encourage maximum reuse of technically contaminated fuels by multifuel-engine powered tactical vehicles.
- 4. The following guidelines are generally applicable to garrison operations:
- a. Contaminated fuels which cannot be burned in tactical vehicles and other used petroleum products, except gasoline, will be collected in a tank of at least 250-gallon capacity equipped with a funnel, strainer and cover to prevent entrance into the tank of trash, water and other foreign matter. When the container requires emptying, the Officer in Charge (OIC) will notify the Base Maintenance Department (Telephone 5909). The Base Maintenance Department will dispatch a vehicle to remove the waste oil. In the event of an emergency 55-gallon drums may be used as a temporary expedient storage container for waste oil.
- b. Waste lubrication grease will be collected, stored in suitable containers and disposed of in accordance with instructions provided by Base Maintenance Department representative. Send request via Chain of Command to the Base Maintenance Officer.
- c. Oil-saturated soil in the vicinity of oil and petroleum storage areas should be removed to the sanitary landfill and replaced with fresh earth.
  - d. To dispose of contaminated gasoline contact the Base Fire Department (Telephone 3004).
- e. Disposal of hazardous waste and other hazardous substances such as acids, poisons and solvents through any drainage system to include sinks, wash racks, storm drains and natural drainage systems is specifically prohibited. These products will be segregated and stored in suitable containers and will be disposed of in accordance with instructions provided by Commanding General, Marine Corps Base, Camp Lejeune.
- f. Petroleum products containers will be disposed of at the sanitary landfill, or recycled, if appropriate, with the exception of 55-gallon drums and durable metal containers which will be disposed of through the Defense Property Disposal Officer, Building 906.
- g. Personnel changing private owned vehicle (POV) oil on Base will use established Base Special Service facilities and deposit waste oil in one of the authorized collection tanks on Base and the Air Station.
- h. Oil and casoline storage containers larger than 550-gallon capacity will be diked to include a drainage line and valve which will be locked. The latter will be operated only by personnel authorized by the Unit Commander.
- 5. Field operations will comply with the guidance enumerated in the following subparagraphs:
  - a. All tactical refueling systems installed on Base must first be approved by the Base Maintenance Officer.
- b. Fuel stored in tactical refueling systems will be properly diked, as required by current regulations. As a general rule, the dike must be capable of containing at least the volume of the container stored within it.
  - c. When using fuel tanker vehicles:
    - (1) Hoses, nozzles and connections will be checked frequently for serviceability to avoid leakage of fuel.
    - (2) Refueler operators will stay with the vehicle during refulling operations.
- (3) Tanker vehicles containing fuel will be parked in such a manner as to avoid the possibility of spilled fuel entering natural or man-made drainage systems.
  - (4) During recirculation operations, nozzles will be secured to the vehicle.
- (5) All waste petroleum products generated during field exercises will be stored (55-gallon drums, etc.) and disposal instructions obtained from the Director, Natural Resources Division, Base Maintenance Department (451-5003).

OIL AND OTHER HAZARDOUS MATERIAL SPILL CONTINGENCY PLAN

FOR

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
HARINE CORPS AIR STATION (HELICOPTER), NEH RIVER, JACKSONVILLE, NORTH CAROLINA
MARINE CORPS HELICOPTER OUTLYING FIELD, OAK GROVE, JONES COUNTY, NORTH CAROLINA

PREPARED

**OCTOBER 1980** 

BO 11090.18

# ES HAY 1531

#### Reporting Spills of Oil and Other Hazardous Substances

a. Materials Classification - The following products are examples of oil compounds or hazardous substances which must be reported if spilled on the ground or water in any amount:

Lube Cils Gasoline Kerosene Lube Grease JP-4 & JP-5 Fuels Hydraulic Fluid Acids No. 2 Fuel Oil

Paint Thinner Organic Solvents Cleaning Solutions Poisonous Chemicals No. 6 Fuel Oil

1. . .

- b. Reporting Procedures All spills of oil or hazardous materials shall be reported immediately to the Base Fire Department Phone 3333 (on base) or 451-3333 (off base). The report shall include location (Building Number) of spill, substance spilled and the approximate amount. All spills occurring at Marine Corps Air Station (Helicopter), New River will also be reported to the Station S-4 (455-6068 455-6518) during normal working hours and to the Station Officer of the Day after normal working hours (455-6111).
- c. Posting of Oil Spill Procedure Signs shall be posted in every building, tank location and field service location where oil or hazardous materials are used. The sign shall have a yellow background with black lettering indicating the following information:

IN CASE OF AN OIL OR HAZARDOUS MATERIAL SPILL CALL BASE FIRE DEPARTMENT ON BASE 3333/OFF BASE 451-3333 NOTIFY YOUR COMMANDER/SUPERVISOR IMMEDIATELY

d. Initial Containment Procedure - Remain in area - - - Do Not Wash Down With Water - - - Keep Personnel Out of the Area - - - Block Runoff with Earth Materials to Prevent Spreading, when possible.

#### Response to Spill

- a. Fire Department Fire Department shall dispatch a regular fire fighting unit to the scene of a reported spill. The Base Fire Chief or his senior representative shall report to the scene as soon as possible. Dispatcher will immediately notify the Base Fire Chief or his senior representative who will perform the following duties:.
  - (1) Assume the role of On-Scene Coordinator (OSC).
- (2) Take all necessary immediate steps to contain the spill, eliminate any fire hazards and protect all personnel from exposure and request the assistance of the Base Safety Officer, if required (See page 4, Enclosure (2)).
- (3) Notify the Natural Resources and Environmental Affairs Director (Telephone 5003) of the spill location and the nature and quantity of spilled materials.
- (4) Evaluate the spill situation and request necessary logistical support from the Base Maintenance Officer to contain the spill and facilitate the cleanup and recovery of the spilled materials.
- (5) OSC duties shall transfer to the Director, Natural Resources and Environmental Affairs upon his arrival at the scene. (See page 4, Enclosure (2) for Personnel and Public Safety Coordination).
  - b. Base Maintenance Officer
- (1) Base Maintenance Officer shall maintain the inventory of materials and equipment as established in Appendix A of enclosure (2).
- (2) Base Maintenance personnel shall respond immediately to the request of the OSC with men and equipment requested.
  - (a) Direct supervision shall be from the OSC.
  - (b) Maintenance personnel shall remain at the spill scene until authorized to depart by the OSC.
  - c. Natural Resources and Environmental Affairs Division
- (I) The Director or his authorized representative shall proceed to the scene and assume the duties of the OSC. The duties shall include the following categories:
  - (a) Direct all containment and cleanup activities.
- (b) Report oil spills that discharge into the inland waters or coastal waters to the following: Base Maintenance Officer; Assistant Chief of Staff, Facilities, Marine Corps Base; Marine Safety Officer, U. S. Coast Guard, Wilmington, North Carolina and the Environmental Regulatory Agencies, as required.
- (c) Request U. S. Coast Guard assistance for spills into waters that cannot be contained promptly by joint efforts of the Fire Department and Base Maintenance crews.

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- (2) The Natural Resources and Environmental Affairs Division Director or his representative shall remain at the scene of the spill until all contaminant is properly contained and the danger of oil contamination of waterways is eliminated.
- (3) At the conclusion of all cleanup operations, the official report submitted to the Environmental Protection Agency (EPA), Region IV, shall be prepared in accordance with requirements of Federal Water Pollution Control Act and EPA regulations in effect at the time. The report shall be transmitted to EPA through the directives of the Commanding General.

### 3. Spill Containment and Cleanup

- a. Small Spills (less than one gallon)
- (1) Cause: Gasoline or fuel oil spills at fueling locations occur by overfilling or blow back from the tank receiving the fuel.
- (2) Reporting: This type of spill requires reporting to the Office of Natural Resources and Environmental Affairs (Phone 1-919-451-5003). The fuel spill must be promptly cleaned up by the person at the scene.
  - (3) Containment Procedures:
    - (a) DO NOT FLUSH INTO STORM SEMER OR DRAINAGE DITCH.
- (b) Cover entire spill with sand or absorbent material from storage bin or container. Add material as liquid appears in the surface of the sand or absorbent material.
- (c) Cleanup contaminated sand or absorbent material with broom and shovel placing it in a container (metal) for discosal or possible reuse. The container shall be labeled "Waste Oil Refuse".
- (d) If storage bin of sand or absorbent material is less than one-half full after using, call Base Maintenance Department (3001) to inform them of the location needing additional material.
- (e) Reapply a second coat of sand or absorbent material in a very light layer to assure all gasoline or fuel oils have been blotted up. Brush material back and forth over the area and then sweep up completely. This material can be replaced in the fresh storage bin rather than depositing it in the "Waste Oil Refuse" container.
  - b. Spills on Concrete Aprons (more than one gallon)
    - (1) Resorting: Call Base Fire Department
    - (2) Containment Procedures:
      - (a) 30 NOT FLUSH INTO STORM SEWER OR DRAINAGE DITCH.
- (b) The person on-site shall erect a two-to-three inch high sand or earth dam on the concrete or at the edge of the concrete below (downstream) the direction that the spill is flowing. This is the first step in containment.
- (c) Apply sand or absorbent materials that are available around the perimeter of the spill until the Fire Department arrives. Keep other personnel away from the area.
- (d) Fire Department shall continue abatement methods using equipment available until the Director of Natural Resources and Environmental Affairs Division or his representative arrives to determine further containment and cleanup requirements.
- (e) Base Maintenance personnel shall install dams, straw barriers, pumping equipment and other abatement or cleanup equipment as directed by the OSC.
  - c. Spills on Ground (more than one gallon)
    - (1) Resorting: Call Base Fire Department
    - (2) Containment Procedures:
      - (a) DO NOT FLUSH INTO STORM SENER OR DRAINAGE DITCH.
- (b) The person on-site shall erect a minimum three-inch high sand or earth dam below (downstream) the direction that the spill is flowing. The dam should be made higher if the liquid pool behind the temporary dam rises to within two inches of the top. A trench or sump may be used in lieu of a dam. This is the first step in containment that must be taken promptly to prevent spreading into surface waters.
- (c) Apply sand or absorbent materials that are available around the perimeter of the spill until the Fire Department arrives. Keep other personnel away from the area.
- (d) Fire Department shall continue abatement methods using equipment available until the Director of Natural Pescurces and Environmental Affairs Division or his representative arrives to determine further containment and cleanup requirements.

BO 11090.1B

- (e) Base Maintenance personnel shall install dams, straw barriers, absorbents, pumping equipment and other abatement or cleanup equipment as directed by the OSC.
  - d. Spills Entering Storm Drainage System
- (1) Reporting: Call Base Fire Department and emphasize that the liquid has entered a catch basin, manhole, drainage ditch, or any structure (pit) below ground.
  - (2) Containment Procedures:
    - (a) DO NOT ADD HATER TO FLUSH OUT STORM SEVER OR STRUCTURE.
- (b) The person on-site shall attempt to erect a sand or earth dam around or cover with polyethylene or other plastic materials the manhole or catch basin to prevent further entrance of liquid into the structure. This is the first step in containment that must be taken promptly to minimize the quantity of liquid that will be discharged into surface waters.
- (c) The person on-site shall apply sand or absorbent materials that may be available around the perimeter of the spill and at the manhole or catch basin until the Fire Department arrives.
- (d) Base Naintenance personnel shall place oil booms across storm drains to prevent further discharge. Public Works Department will develop maps of drainage systems required for siting booms. After spill is contained, cleanup will be initiated. Action may include the following:
- 1 Inspect downstream manholes for evidence of oil progression toward discharge. If storm system has a very low flow, install straw barrier or absorption dam inside manhole.
  - 2 Where practical, install plug in upstream side of manhole, to contain in the pipe system.
- $\frac{3}{2}$  If the drainage system has an open ditch, install straw bale dams or aborption dam to collect spilled materials.
  - 4 Isolate streets with contaminated manhole to prevent fires or explosions.
- (e) The Director, Natural Resources and Environmental Affairs Division, or his representative shall determine further containment and cleanup requirements after arriving on the scene.
- (f) Base Maintenance personnel shall install dams, straw barriers, abordents, pumping equipment and other abatement and cleanup equipment as directed by the OSC.
  - e. Spills Entering Surface Waters
- (1) Reporting: Call Base Fire Department and emphasize that the liquid was discharged directly into the surface waters.
  - (2) Containment Procedure:
- (a) Person at the site should check the source of discharge to be assured that no further discharge can occur. Close valves, remove hose, or isolate the source from causing any further release of materials.
- (b) Do not allow boats or equipment to enter the surface waters where the spill has occurred. If surface type oil absorbents are available, begin spreading this material wherever an oil skim is observed. Do not enter the water to apply this material until the Fire Department arrives.
- (c) Fire Department shall continue abatement methods using equipment available until the Director of Natural Resources and Environmental Affairs Division, or his representative arrive to determine further containment and cleanup requirements.
- (d) Base Maintenance personnel shall install booms, skimmers, pumps and other abatement or cleanup equipment as directed by the GSC.
- 4. Responsibilities for Ensuring Personnel and Public Safety
- a. Overall responsibility for ensuring the safety of personnel involved in the containment and cleanup of hazardous material spill is assigned to the Base Fire Chief or his senior representative. The Base Fire Chief representative shall continue to monitor the situation and will provide required standby personnel and equipment. The Base Fire Chief representative will request the assistance of the Base Safety Officer as needed. The Base Fire Chief representative shall keep the OSC informed of any safety considerations affecting the containment and cleanup of the spill. In the event of imminent hazard to personnel involved in the spill cleanup or to the public, Base Fire Chief representative shall take appropriate action. The OSC shall assist the Base Fire Chief representative implement safety procedures required.
- b. Base Safety shall dispatch a safety representative to the spill scene upon request from the Base Fire Chief representative. The Base Safety representative will remain at the scene until advised by the Base Fire Chief representative that assistance is no longer required. Base Safety representative will monitor all activity at or near the spill and make appropriate recommendations to the Base Fire Chief representative.

# MATERIALS AND EQUIPMENT FOR OIL SPILL CONTAINMENT AND COUNTERMEASURE

	· · · · · · · · · · · · · · · · · · ·	
Item No.	Description	Quantity
1.	Gasoline engine driven (portable) trailer mounted diaphragm pump with sectional suction and discharge hose - minimum capacity 25 gallons per minute.	2
2.	Sectional aluminum oil boom	
3.	Inflatable oil barrier, Whittaker Expandi self-inflating	300 L. F.
4.	Collapsible bag for field filling of collected oil-250 gallon capacity	2
5.	Oil skimmer (portable)type for water floating oil pick-up	1
6.	Baled hay or straw with wire or nylon baling (located at strategic areas)	200 Bales
7.	Steel fence stakes (6 feet long)	50 each
8.	Woven wire mesh (chicken wire) 3ft. width 4ft. width	200 L.F. 100 L.F.
9.	Sledge hammer - 10 lb. 5 lb. 2½ lb.	3 5 5
10.	Shovels - Long handle round point Long handle flat blade Short handle round point Short handle flat point	5 5 5 5
11.	Oil Absorbent Compound - for water spill clean up	2000 lbs.
12.	Oil Absorbent Compound for ground spill clean up - Randustrial P-218 Oil Absorbent (55-gallon drum)	25 drums
13.	Nylon rope - ¼" diameter ½" diameter 3/4" diameter	200 L.F. 400 L.F. 400 L.F.
14.	Oil Sorbent Material - 3M, Conwed or Grefco	500 lb.

# TELEPHONE DIRECTORY



# MARINE CORPS BASE CAMP LEJEUNE, N.C. 28542

GENERAL INSTRUCTIONS **AUTOVON** Page 1 AUTOVON OFF-NET Page 5 FTS Page 15 ALPHABETICAL Page 17 MCB Page 33 2nd DIV Page 41 2d FSSG (REIN) Page 55 FMFLANT MAU/LSU Page 65 MCAS Page 67 PERSONNEL SPT **ACTIVITY (NAVY)** Page 79 NAVAL REGIONAL **DENTAL CENTER** Page 79 NAVAL REGIONAL **MEDICAL CENTER** 

Page 81

THIS IS	BLDG. NO.		TELEP	TELEPHONE NO.		
FIRE	E AMBULANCE PMO		EOD	TROUBLE		STAFF DUTY OFFICERS
3333	3211	2555	0118	UTILITIES	TELEPHONE	MCB - 2528 DIV - 2127
AIRCRAFT CRASH CREW 455 - 6333				3001	1114	FSSG - 2826 MCAS - 6111
FAMILY HOUSING MAINTENANCE (0800 - 1630) After Normal Working Hours ALL OTHER MAINTENANCE REQUESTS EMERGENCY MAINTENANCE (After 1630)				MC 22- 30 30 30	44/2245 01 01	MCAS 455-6817 451-3001 455-6818 451-3001
FROM JACKSONVILLE TELEPHONES				. 676 - XXXX	IMBER LISTED	

JANUARY 1981

FOR OFFICIAL USE ONLY

# GENERAL HEORNATION NUMBERS

### DUTY NUMBERS

Red Gros.	,
Burn OF DATE.	

### SECOND MARINE DIVISION

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# M PSSG (RETW)

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# Directory Changes

### CAMP LEJEUNE

"World's Most Complete Amphibious Training Base"

Prior to 1940, this Base was farm land devoted to the growing of tobacco, peanuts, and other crops typical of this area. Some 640 families lived on the land and derived their livelihood from farming and fishing until, in 1940 and 1941, the land was purby the Marine Corps. Construction of the new camp, later named in honor of Lieutenant General John A. Lejeune, was begun in April 1941 and completed in late 1942.

Camp Lejeune is located some 350 miles south of Washington, D.C., and 222 miles north of Charleston, South Carolina. Norfolk, Virginia is 213 miles north of Camp Lejeune. The Marine Corps Air Station, Cherry Point, our supporting Air Base is 52 miles away and the distance to Morehead City, our main port of embarkation, is 45 miles.

Known as the "World's Most Complete Amphibious Training Base," Camp Lejeune has a perimeter of 68 miles with 14 miles of ocean front paralleled by the Intracoastal Waterway. The Military Reservation covers 170 square miles or 109,047 acres, of which 26,000 acres are water.

Camp Lejeune is composed of the Main Camp at Hadnot Point, with other smaller Camps at Courthouse Bay, the Rifle Range, Camp Geiger and Camp Johnson. In the Industrial Area of the Camp are located Supply and Maintenance buildings, the Commissary, Laundry, Exchange and Heating Plant. A complete Naval Regional Medical Center is situated on Hospital Point. Also, located within the boundaries of the Camp, is the Marine Corps Air Station (H), at New River.

The Base administers over 4,000 housing units located in various areas of the reservation. Besides providing all maintenance, fire protection, water

purification, police protection and other services normal to a city of over 50,000, the Base also administers its own school systems under the Depart-of Health, Education and Welfare. Annual enrollment approaches 3,200 pupils.

Three major Commands are located at Camp Lejeune: The Marine Corps Base, 2d Marine Division and 2d Force Service Support Group (REIN).

Marine Corps Base has a two phase mission, the first is to provide housing, training facilities. and logistical support for fleet Marine Force and other units assigned. The second phase of the mission of the Base is to conduct specialized training as directed. This includes over fifty courses. These range from entry level skill training for newly graduated recruits to professional and technical career enhancement courses for NCO'S, SNCO'S and Officers. The Engineer Schools, located at Courthouse Bay, conduct courses in such fields as electricity, plumbing, engineer equipmaintenance and repair, and demolitions. Service Support Schools, located at Camp Johnson, conduct formal school courses in the fields of food service, supply, motor transport, fiscal, disbursing and instructor training.

The Field Medical Service School trains Medical and Dental Department personnel of the Navy for duty with the Fleet Marine Forces.

This brief description of the activities and composition of Camp Lejeune highlights the fact that this is a large undertaking combining all the problems of city management with the constantly increasing complexities associated with the high standard of combat readiness traditional of the Marine Corps.

GOOD SERVICE STARTS

WITH CAREFUL DIALING



PLACING PERSONAL LONG DISTANCE CALLS AND BILLING THEM TO GOVERNMENT NUMBERS IS IN VIOLATION OF FEDERAL LAW AND BASE ORDER 2305.5F

### DIALING INSTRUCTIONS

### LOCAL CALLS

Camp Lejeune Base Telephones

Within Camp Lejeunedial listed number To Marine Corps Air Station (unrestricted telephones)dial 9, wait for second dial tone dial listed number	
Restricted telephonesdial 00 and last three digits of listed number	
To MCAS, Cherry PointDial 1113, when operator answers, ask for Cherry Pt.	
To Jacksonville (Unrestricted Telephones only)dial 9, wait for second dial tone, dial seven digit Jacksonville number desired	
*AUTOVON Calls (AV Telephones only) OFFICIAL USE ONLYdial 81, wait for second dial tone, dial desired AUTOVON number	
Information	

FEDERAL TELECOMMUNICATIONS SYSTEM (FTS) FOR OFFICIAL USE ONLY
*FTS CALLS (Av Telephones only)Dial 86, wait for second dial tone, dial desired seven digit FTS number for Automatic Off Net calling.
FTS (Operator Assisted calls)
From Class "A" telephones
FOR FURTHER DIALING INSTRUCTIONS, CONSULT YOUR FTS DIRECTORY
LEASED LINES
To MCAS, Cherry Pointdial 1113, when operator answers, ask for Cherry Pt.
To New Berndial 1113, when operator answers, ask for New Bern via Cherry Point
To Marine Corps Auxillary Landing Field at Bogue
To MCAS, Beaufort, S.Cdial 1113, when operator answers, ask for MCAS Beaufort via Cherry Pt.
To Norfolkdial 1113, when operator answers, ask for MAG line 38 and desired seven digit number
To Morehead Citydial 1113, when operator answers, ask for Morehead City via
Cherry Point Port Authoritydial (451)-1805

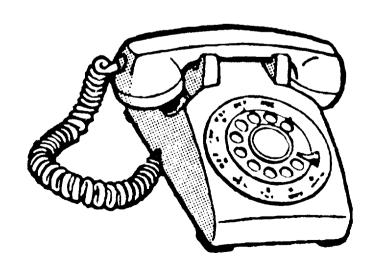
То	Maintenance of Out of Service Equipment, (MOOSE)d:	
То	TAC Center, Langley Air Force Base	dial 1113, when operator answers, ask for TAC Center, Langley AFB via Cherry Point
То	Fort Richie, Md., Hq Marine Corps (AV telephones Only)	dial 84, when operator answers, give her the telephone number desired.

### GENERAL INFORMATION

THE CAMP LEJEUNE TELEPHONE DIRECTORY IS GOVERNMENT PROPERTY. IT IS PUBLISHED FOR THE OFFICIAL USE OF PERSONNEL OF THIS BASE AND OTHER GOVERNMENT ACTIVITIES. SUBSCRIBERS IN POSSESSION OF THE DIRECTORY ARE RESPONSIBLE FOR ITS SAFE KEEPING. INFORMATION CONTAINED IN THE DIRECTORY WILL NOT BE TRANSMITTED TO ANY UNAUTHORIZED PERSON OR AGENCY.

### HOW TO IMPROVE YOUR TELEPHONE SERVICE

- A. Use current Telephone Directory provided.
- B. When trouble is encountered when dialing (no ring tone, wrong number and noise on line), call Telephone Repair Desk, extension 1114.
- C. Do not leave handset off the telephone. Telephone exchange equipment is tied up unnecessarily.
- D. Do not engage operators in unnecessary conversation.
- E. Have pencil and paper available to record telephone number requested from Directory Assistance.
- F. Any complaints or information required regarding telephone service should be directed to the Base Telephone Officer, extension 2531.
- G. Do not dial Jacksonville Directory Assistance unless it is ABSOLUTELY NECESSARY. Consult your city directory for these numbers.

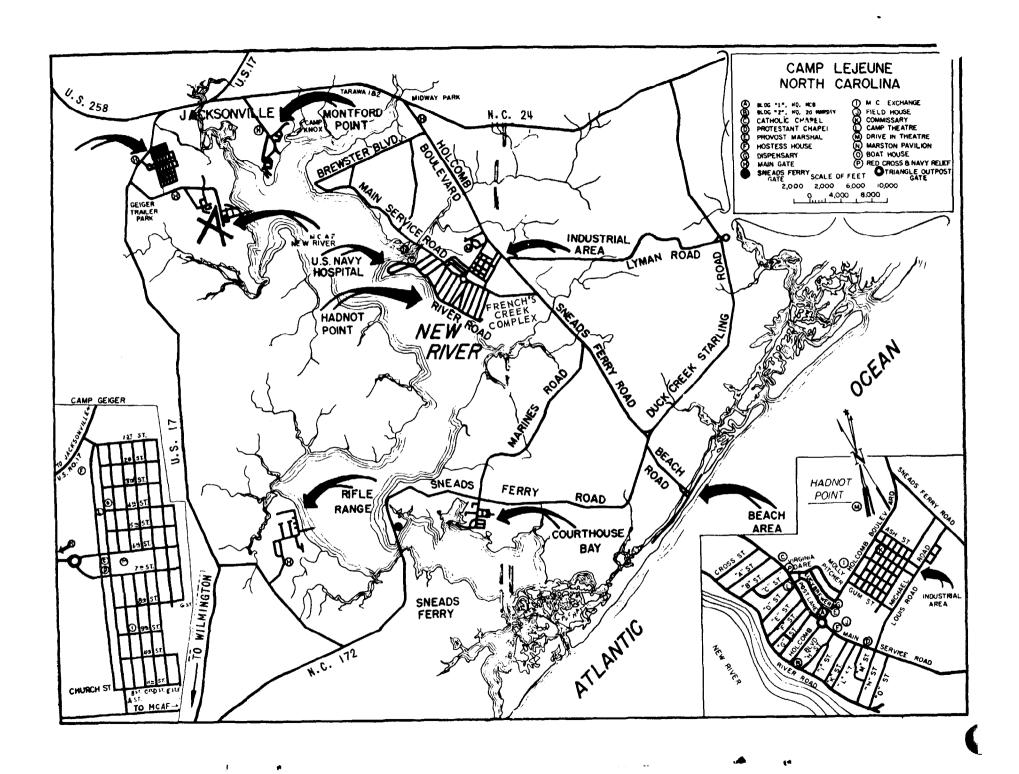


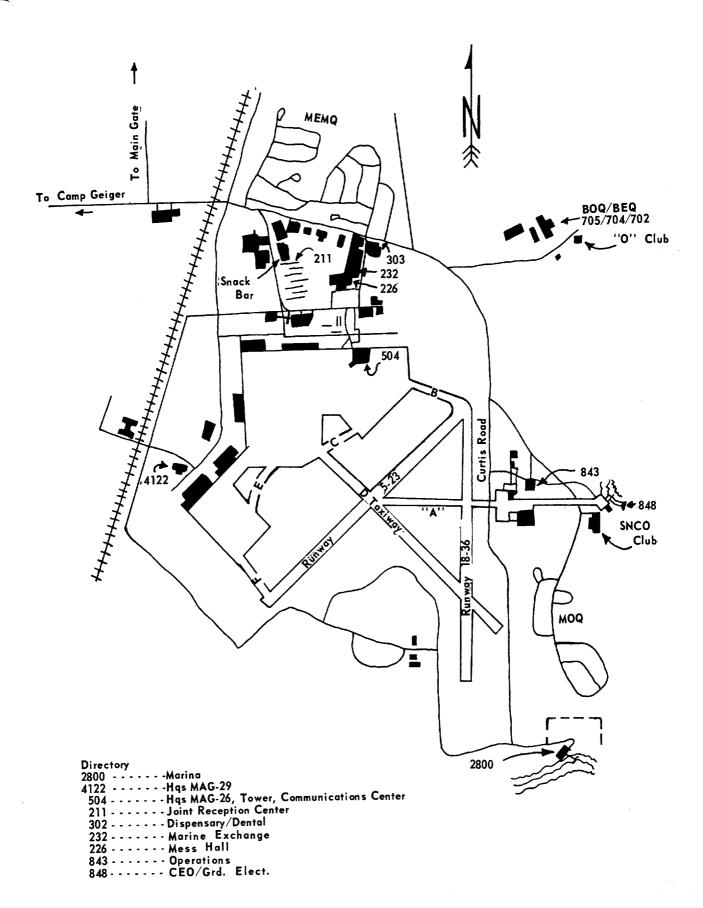


### SECNAVINST 2305.10A dtd 3 Sept 69

# D. Communications Management Monitoring

- 1. Telephone communications management monitoring shall be undertaken only to provide material for analyses within the DOD to determine the operational efficiency and proper use of the DOD-dedicated systems and the common user systems of the Defense Communications System.
- 2. Heads of DOD Components shall assure that users of DOD telephone communications systems are specifically advised through widely disseminated regulations that the communciations systems are:
  - a. Provided for the transmission of official government information only; and
  - b. Subject to communications management monitoring at all times.
- 3. After users have been notified as outlined in paragraph 2, above, use of DOD telephone communications systems shall constitute consent to communications management monitoring.





MCAS (H) NEW RIVER



#### INITED STATES MADINE CODDS Marine Corps Base Camp Lejeune, North Carolina 28542

BO 2305.5F Ch 2 17 SEP 1980

DASE ORDER 2305.5F Ch 2

Trom: Commanding General To: Distribution List

Subj: Orders and Procedures for the Management of the Base Telephone System

- 1. Purpose. To direct pen changes to the basic Order.
- 2. Action
  - a. Insert reference (f) FTS User's Guide.
- b. On page 9, paragraph 15.h., line 3, change "subparagraph (g) above." to read "subparagraph (a) above."
  - c. Renumber paragraphs 10 through 21 to 11 through 22.
  - d. On page 6, after paragraph 9.h., insert:
    - 10. FEDERAL TELECOMMUNICATIONS SYSTEM
      - a. Reference (f) gives complete dialing instructions for the FTS network.
- b. There are no telephone numbers within CONUS, Alaska, Hawaii, Puerto Rico, and Canada that cannot be accessed by utilization of the FTS network. Therefore, no commercial toll calls will be made beyond a 50-mile radius of Camp Lejeune, NC. Wilmington, NC, Hawelock, NC, Morehead City, NC, and New Barn, NC are exceptions. Wilmington, NC can be accessed via AUTOVON 81-935-1420 and FTS 86-629-2111. Havelock, NC, Morehead City, NC, and New Bern, NC can be accessed via Cherry Point operator.
- c. FTS is available and can be utilized 24 hours a day from "AV", "A", and "C" listings. The Camp Lejeune operator is available to assist the calling party in the placement of FTS calls. The only information the caller is required to know is the city and the seven digit number of the party being called. Subscribers that have "AVA" service and desire to call after normal working hours dial 86-967-1221. This will put you in contact with the Washington, DC FTS operator. Give the operator the area code and the seven digit number of the party you are calling. Any assistance required can be obtained by dialing 1111 for the Camp Lejeune FTS
- Net AITOVON off-Net should be used whenever possible. If you do not know the Off-not listed in the Off-Net directory, use FTS. The cost for each FTS call is \$.93. There are no charges for AUTOVON calls.
- e. Any person making a commercial toll call will be required to reimburse the Treasurer of the United States for that call unless it is specifically approved by a Special Staff Officer/Battalion Commanding Officer. Calls not approved will be reimbursed at Building 1104, the Base Telephone Office.
  - f. Noncompliance of this order will result in loss of "AV/A" telephone service.

mtidell J. R. FRIDELL Chief of Staff

DISTRIBUTION: A



#### UNITED STATES MARINE CORPS MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

BO 2305.5F Ch 1 MAIN/FHRF/11r 3 JAN 1970

#### BASE ORDER 2305.5F Ch 1

From: Commanding General To: Distribution List

Subj: Orders and procedures for the management of the Base

Telephone System

1. Purpose. To direct a pen change to the basic order.

2. Action. On page 5, paragraph 8b, line 4, delete "within five days after receipt."

mridel

Chief of Staff Acting

DISTRIBUTION: A



#### UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

BO 2305.5F MAIN/FHRF/mem 1 9 JUL 1978

#### BASE ORDER 2305.5F

From: Commanding General
To: Distribution List

Subj: Orders and procedures for the management of the Base Telephone

Ref: (a) JCS-MOP-151 (NOTAL)

(b) OPNAVINST 2300.4A (NOTAL) (c) OPNAVINST 2305.13 (NOTAL)

(c) OPNAVINST 2305.13 (NOTAL)(d) MARCORSUPMAN, Vol V (NOTAL)

(e) NAVCOMPMAN, Vol III (NOTAL)

Encl: (1) Telephone Service Request Format (MCBCL 2305/28)

(2) Extract from AUTOVON Operating Procedures, DCA Cir 310-70-1, 0h 1 of 24 March 1969

(3) Magneto Line Request Format (MCBCL 2305/28)

- 1. <u>Purpose</u>. To promulgate guidance and instructions pertaining to the installation, operation and maintenance of the Marine Corps Base Telephone System.
- 2. Cancellation. BO 2305.5E.

#### General

- a. The Base Telephone System is a United States Government owned, maintained and operated telephone system managed in accordance with references (a) through (d). The telephone system provides official telephone service to all tenant commands and unofficial (reimbursable) service to family quarters at Courthouse Bay and the Rifle Range. All other government owned family quarters are provided service by Carolina Telephone and Telegraph Company.
- b. The Telephone Officer is responsible to the Base Maintenance Officer for the administration and operation of the Base Telephone System to include supervision of telephone operators, approval of requests for installation and removal of telephone instruments and equipment, system maintenance and compilation of the telephone directory.

BO 2305.5F 1 9 JUL 1978

#### 4. Classes of Telephone Service

- a. Class MAVW (Official with AUTOVON Access). Telephones authorized for the transaction of official government business. This service provides access to the local commercial telephone system and toll charges are paid from appropriated funds. These telephones also have access to the AUTOVON network.
- b. Class "A" (Official). Telephones authorized for the transaction of official government business. This service provides access to the local commercial telephone system and toll charges are paid from appropriated funds. This telephone service does not have access to the AUTOVON network.
- c. <u>Class \*B\*\* (Unofficial)</u>. Telephones provided for unofficial use and may or may not have access to the local commercial telephone system. Charges are paid from non-appropriated funds or by individual subscribers. This class is further designated as:
- (1) <u>Class B-1</u>. Telephones installed in government owned or leased quarters for use by the designated occupant. Access to the commercial telephone system is authorized.
- (2) <u>Class B-2</u>. Telephones installed for use of the American Red Cross and other morale, welfare and recreation activities as provided in reference (e). This class may be restricted to the base or have access to the commercial telephone system.
- (3) <u>Class B-3</u>. Telephones installed for commercial concerns authorized to conduct business from a fixed location on the base. This authority must be in the form of a contract or permit issued by the Commanding General, Marine Corps Base. Access to the commercial telephone system is authorized.
- d. Class "C" (Official Restricted). Telephones installed for the transaction of official government business but are restricted to the base.

#### 5. Class "AV" and "A" Telephone Allocation

a. Allocation of Class "AV" and "A" telephone service is as follows:

Organization	Assigned
General Officers	As required
General Staff Sections	2 AV
Special Staff	1 AV

Organization	Assigned
Regiments	
CO and XO	1 AV, 1 A
S-3 and S-4	1 AV jointly
Chaplain	l A
Battalions	
CO and XO	1 AV
S-3 and S-4	l AV jointly
Chaplain	l A
Separate Companies	1 AV

b. Exceptions to the above policy may be submitted to the Base Telephone Officer along with appropriate justification.

#### 6. Requests for Telephone Service

- a. Requests for official telephone service (installation, removal, relocation or special equipment) will be submitted on Form MCDCL 2305/28 (Telephone Service Request). The form will be completed in triplicate and all copies forwarded to the Commanding General, Marine Corps Base, (Attn: Base Telephone Officer, Building 1104). See enclosure (1) for format. The request must be signed by the unit commander requiring the telephone service. Except for emergency service, requests must reach the Base Telephone Officer at least three working days prior to the date action is desired.
- b. Requests for unofficial (Class B) telephone service will be made to the Telephone Accounts Office, Building 1104, telephone number 2531. Class B-3 subscribers will be required to post a deposit which will be returned without interest upon termination of service.
- c. Class "B" telephone service will be disconnected prior to dispossession inspection of quarters. Request for termination of service must be made to the Telephone Accounts Office three working days prior to desired termination date to enable scheduling and preparation of the final bill. Each Class "B" subscriber will check out with the Telephone Accounts Office prior to final departure from Camp Lejeune.

BO 2305.5F 1 9 JUL 1978

d. Transfer of Class "B" telephone responsibility will not be accomplished without a signed Form MCBCL 2305/28 and payment of the reconnect charge. Telephone extensions are not allowed outside of the responsible person's assigned area.

#### 7. Charges and Reimbursements for Class "B" Telephone Service

- a. Morale, welfare, recreation activities and private parties will reimburse the Marine Corps for telephone service in accordance with reference (e). Where applicable, reimbursement will include basic charges, installation, relocation, reconnection and toll charges incurred through the use of telephone service. Checks or money orders will be made payable to the Treasurer of the United States and will be for the exact amount of the telephone bill.
- b. Telephone service is considered to be provided from the date of installation until such time as a request for termination of service is received by the Base Telephone Accounts Office.
- c. Class "B" subscribers will be billed each month for telephone services. Payment of telephone billings must be made prior to the 15th of the month in which the bill is received. Payment in person may be made in the Telephone Accounts Office, Building 1104, from 0830 to 1500, Monday through Friday.
- d. Telephone service may be suspended if the bill is not paid during the prescribed period. Non-receipt of bills is not an acceptable excuse for delinquent accounts. To regain service, a letter requesting reestablishment of service must be addressed to the Commanding General, Marine Corps Base, Camp Lejeune (Attn: Base Telephone Officer). If approved, the person concerned will be required to pay all indebtedness plus a reconnect charge. Suspended service will be limited to two weeks.
- e. Private subscribers temporarily absent from the base during a billing period will make arrangements for payment with the Telephone Accounts Office. Subscribers may request temporary disconnection of service without removal of telephone for a period of absence, not to exceed three months.

#### 8. Class "AV" and "A" Telephone Charges

- a. Long distance official telephone calls will be billed only to a Class "AV" or "A" telephone. Incoming collect calls will not be billed or accepted on a Class "C" official-restricted telephone.
- b. The senior officer assigned a Class "AV" or "A" telephone will be responsible for all toll charges against that telephone number. He will ensure that adequate precautions are taken to preclude unauthorized use of Class "AV" or "A" telephones. He will be required to complete Form MCBCL 2305/2 (Official Long Distance Calls, Audit and Certification of

3

Necessity) each month certifying that the use of the telephone for toll calls listed therein were necessary in the interest of the government and payment of these calls should be made from appropriated funds. The Form MCBCL 2305/2 will be certified within five days after receipt and returned to the Telephone Accounts Office. Failure to return the Toll Certification is cause for the suspension of telephone service to the subscriber. A telephone toll log will be maintained indicating all long distance calls made by the subscriber to assist in verifying the Toll Certification. Questions pertaining to telephone toll statements may be referred to Telephone Accounts, telephone number 2531.

- c. Prior to placing long distance calls, subscribers should refer to the CONUS AUTOVON Off-Net Extension Directory which lists cities serviced by the AUTOVON system. Every effort should be made to use this system for official long distance calls.
- d. Unofficial personal long distance calls will not be made utilizing government telephone numbers for billing.

#### 9. <u>AUTOVON</u>

- a. The AUTOVON (Automatic Voice Network) is the principal long-haul, voice communications network within the Defense Communications System. AUTOVON provides a world wide unsecure direct distance dialing service to authorized agencies. The purpose of AUTOVON is to handle essential command and control, operations, intelligence, logistic, diplomatic and administrative traffic.
- b. The AUTOVON is limited to official communications and will be restricted to only essential calls requiring a timeliness that cannot be obtained by other means, and would stand the scrutiny afforded a commercial toll call.
- c. The use of graphic, facsimile or unsecured voice-data devices are authorized only when approved by the Chiefs of the Military Services and heads of DOD agencies or activities. Voice-data, facsimile and graphic service over AUTOVON will normally not exceed a continuous transmission time of 15 minutes nor a total transmission time of one hour during normal business hours.
  - d. The AUTOVON is not authorized for:
- (1) Use directly or indirectly by a non-appropriated fund activity provided telephone service at post, camp, station or base level.
- (2) Calls within an installation, metropolitan area, or confined geographical areas where other existing government-provided local telephone service is adequate.

#### BO 2305.5F 1 9 JUL 1978

- (3) Off-net extension calls into the commercial system at a distant AUTOVON exchange, except where such extension has been previously approved (reference CONUS AUTOVON off-net extension directory for approved listing).
- e. The AUTOVON is not secure and users are reminded that care must be exercised in accordance with established security instructions to avoid divulging or alluding to classified information.
- f. AUTOVON calls should be limited to five minutes in length whenever possible. At the discretion of the Base Chief Operator, when justified by traffic conditions, routine calls may be limited to five minutes. When such limitations have been imposed, the operator may enter the line and advise callers of this limitation and request termination of the call. After one more minute, the call may be terminated without further notification.
- g. Call assistance, conferencing and directory assistance for AUTOVON users can be obtained from the Information Operator by dialing telephone number 82.
- h. When trouble is encountered while utilizing AUTOVON, the user should retain the circuit connection and report the trouble immediately to Telephone Repair (telephone number 1114) via another telephone.

#### 10. Overseas Calls

a. Overseas calls will require prior approval as follows:

Command	Authorizing Official
Marine Corps Base	Chief of Staff
2d Marine Div (Rein) FMF	Chief of Staff
Force Troops/2d FSSG FMFLANT	Chief of Staff
Naval Regional Medical Center	Commanding Officer/Executive Officer
Naval Regional Dental Center	Commanding Officer/Executive Officer
Marine Corps Air Station (H) New River	Commanding Officer/Executive Officer
Marine Aircraft Group 29	Commanding Officer/Executive Officer

#### Command

#### Authorizing Official

Marine Aircraft Group 26

Commanding Officer/Executive Officer

- b. Upon approval of an overseas call, the command will notify the Base Telephone Office (telephone number 2531) of the approval and furnish the following information:
  - (1) Name of caller.
  - (2) Destination of call.
  - (3) Telephone number from which call will originate.
- c. Individuals making calls will be instructed to limit all calls to five minutes or to be as brief as possible.
- d. Calls will be placed only from telephone numbers with AUTOVON access.
- e. Arrangements will normally be made during regular working hours for overseas calls. In the event of emergency, the respective Staff Duty Officer may authorize calls by dialing the operator on duty (telephone number 3,00).

#### 11. Precedence Calls

- a. The Joint Uniform Telephone Communications Precedence System is directed for use by all authorized users of voice communication facilities of the Department of Defense. Since the effectiveness of the system depends upon cooperation on the part of persons authorized to employ it, users must be familiar with enclosure (2) which outlines the purpose of each level of precedence category and the types of calls which may be assigned a precedence.
- b. Precedence calls can only be made from telephones with AUTOVON access.
- c. To place a precedence call, the user should dial 82 and provide the following information to the switchboard operator:
  - (1) Caller's name and extension.
  - (2) Precedence of the call.
  - (3) AUTOVON number desired.

BO 2305.5F

19 JUL 19/8

12. <u>Directory Information</u>. Commands/office supervisors are responsible for the accuracy of telephone directory information. Changes to the organizational listings will be submitted as they occur. The telephone directory will be published in September and distributed in October of each year. Any changes to be reflected in the new directory must be received prior to 1 August of each year.

#### 13. Leased Telephone Service

- a. Telephone service (paid from appropriated funds) for military activities operating outside the boundaries of Camp Lejeune is leased from the telephone company serving the area.
- b. Any changes to leased service must be accomplished by separate contract. The Base Telephone Officer is the coordinator for telephone contracts. Requests for all changes will be submitted on Form MCBCL 2305/28.
- 14. <u>Leased Circuits</u>. Circuits for special purposes such as teletype will be leased or rented to "private interests" (Red Cross, Air Line and Bus Station) on an Airline Circuit Mileage basis. Qualifications for this service are outlined in paragraph 4c(3) above.

#### 15. Field Telephone Restrictions

- a. Field wire or cable will not be placed on utility poles, on any building (except as stated below) or in the way of vehicular or pedestrian traffic. In emergency situations, the Commanding General, Marine Corps Base, will allow temporary installation of field wire systems not to exceed the duration of the emergency. Requests for semi-permanent installation will be addressed to the Commanding General, Marine Corps Base (Attn: Base Telephone Officer) in duplicate with enclosures showing route, buildings and number of pairs. The duplicate copy will be endorsed and returned. If approved, the completed installation must be inspected by a representative of the Base Telephone Office.
- b. Stringing of field communication wire from a tree to a building, from building to building, on trees within 300 yards of a building, or within 50 yards of an electric or communication line is prohibited, except at approved crossings and on steel messenger cable.
- c. Any type field wire suspended more than three feet above the ground and crossing under an electric or telephone line will be secured to a steel messenger cable.
- d. Under no circumstances will wire be suspended over or across electrical or telephone lines.

- e. The minimum distance from any fixed electric or telephone line to field communication lines will be six feet.
- f. The use of overhead steam lines or fences to support wire is prohibited.
- g. The use or climbing of telephone or utility poles for any purpose is restricted to Base Maintenance personnel. The Base Telephone Officer will make inspections for violations and direct immediate removal of hazardous conditions. Violations will be reported to the Commanding General. Climbing poles installed and maintained exclusively as training aids are excepted.
- h. The installation of field type wire, bare wire, rubber covered cable or any temporary wire system on utility poles is prohibited except as provided for in subparagraph (g) above.
- i. All ground laid wire along paved roads will be installed on the back slope of the ditch and will be removed immediately after completion of the exercise.

#### 16. Maintenance and Preservation of Telephone Equipment

- a. The Base Telephone System is maintained and operated by the Telephone Division of the Base Maintenance Department. No person, other than an authorized member of this Division, shall service, install, move, remove, or interfere with any item or facility of the Base Telephone system.
- b. When tampering with Base Telephone equipment is discovered, the using unit will be notified and service immediately suspended. Requirement for restoration of service will be by letter explaining the circumstances and action taken, to the Base Telephone Officer (via appropriate Communication-Electronics Officer).
- c. Telephone equipment and instruments connected to the Base Telephone System are Government property, furnished for use at Camp Lejeune. Removal of this property from its assigned area is prohibited.
- d. Digging, excavating, driving posts or pilings along roads or within inhabited areas is prohibited, unless first approved by the Base Telephone Officer.
- e. In the interest of acceptable service, not more than four instruments will have access to any telephone number, except 1-A Key Systems.
- f. Telephone extensions will only be installed in the immediate vicinity of the main station telephone and within the same building.

BO 2305.5F 1 9 JUL 1978

g. Telephone trouble will be reported to the Base Telephone Trouble Desk, extension 1114, which is manned continuously.

#### 17. Magneto and Range Control Lines

- a. Magneto lines can be installed in most areas (except Verona Loop). Requests for magneto lines will be submitted at least three working days in advance of the desired date (see enclosure (3) for format). Tactical call signs/switchboard code names will not be used to identify the using unit to the base switchboard operator.
- b. Magneto lines are available to call MCAS Cherry Point. Every attempt to use the magneto lines should be made to alleviate unnecessary traffic on AUTOVON circuits.
- c. Range control lines appear at most firing ranges and control towers. Using units will check out necessary lines at least 24 hours in advance to permit time for repair if required.
- 18. <u>Subscriber Obligations</u>. All persons using the Base Telephone System are considered subscribers. It is unlawful for a subscriber to:
  - a. Refuse to give up a party line for use in an emergency.
  - b. Make nuisance or malicious telephone calls.
  - c. Use credit card number to fraudulently obtain service.
  - d. Charge a call to another person's telephone number without consent.
- 19. Conservation of Telephone Service. To ensure adequate telephone service is available for assignment to requesting units, strict compliance with the following is mandatory:
- a. Commanding Officers or Officers-in-Charge will ensure that only the minimum number of telephones consistent with the mission of the organization are installed.
- b. Commanding Officers or Officers-in-Charge will request removal of infrequently used telephones. Particular attention will be given to removal of telephones left in vacated buildings.
- c. Request for service, i.e., relocates, extensions, etc., will not be based solely upon convenience or personal preference.

#### 20. Pay Station Telephones

a. Pay station telephones are owned, operated and maintained by the Carolina Telephone and Telegraph Company and are, by permission of the

.manding General, installed on the Base for convenience of the public. isuse or abuse of these telephones will tend to restrict and deprive many people of their use.

- b. The Base Telephone Officer is responsible for the coordination of all pay station telephone service on the Base, preparation of individual agreement, NAVMC 10088-SD, collection and deposit of commissions, allocation and maintenance of Government owned telephone circuits, installation, relocation, and removal of all pay station telephones located on the Base.
- c. Area Commanders are responsible for the security of pay station telephones located in their respective areas. Requests for installations, relocations or removals will be made to the Commanding General, Marine Corps Base (Attn: Base Telephone Officer, Building 1104). A memorandum notification from the Base Telephone Officer to the Area Commander will be sent in cases of removal resulting from misuse of equipment and cancellation of the agreement by the telephone company.
- d. Only Carolina Telephone and Telegraph Company employees will make coin collections.
- 21. Applicability. Having received the concurrence of the Commanding Generals, 2d Marine Division, FMF, and 2d FSSG (Rein), FMFlant, and the Commanding Officers of Marine Corps Air Station (H), New River, Naval Regional Medical Center, and Naval Regional Dental Center, this Order is applicable to those Commands.

Chief of Staff

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BO 2305.5F 1 9 JUL 1978

ELEPHONE SERVICE REQUEST	Sub <del>mi</del> t ( Ref: BC	original and 2 copies 2305.5	Day, Month, Year		
Complete Organizational Identification		ephone			
^ 1.	CLASS	INSTALL	REMOVE	MOVE	
	AV				
2.	Α				
	B-1				
	B-2		I		
COMMANDING GENERAL	B-3				
MARINE CORPS BASE	Ç				
CAMP LEJEUNE, N. C. 28542	MAGEN				
TTN BASE TELEPHONE OFFICER	TELE				

above. Include telephone number for all except new service, If a key instrument is requested, show telephone numbers to be reflected on the instrument. Give complete justification for requested service.

PRESENT LOCATION OF EQUIPMENT For move or remove, RESENT DIRECTORY LISTING show bldg. number and room. listed in telephone directory For install or move, show bldg. number and room. Indicate desired directory listing, Indicate number of telephones in the unit or section

		BASI	TELEPHONE OFFICE USE ONL	Y
TAPPRO	r€0 <b>0</b> 1		WORK ORDER NUMBER	
	CHARGES	1	CONTRACT AUT	HORIZATION
. 7	NONRECURAING	CONTRACT NO.	RENTED SERVICE CSA NO.	MAINTEHANCE SERVICE CSA NO.

Separate requests required when more than one telephone number is involved.

	CABLE	PAIR	TERMINAL NO.	LOCATION	BLDG.	1ST PAIR	X CONN
# E							
оит							
ORK SUPE	RVISOR		WORK COMPLETED BY	DATE DUE		DATE COMPLETED	
CHIEF OPER	ROTA		ACC'TS CLERK	EQUIPMENT/MATERIAL	SE0	l	
VC ORGER	CLERK		DIRECTORY CLERK				
			<u> </u>			ENCLOSURE	

Extract from AUTOVON Operating Procedures, DCA Cir. 310-70-1, Ch 1, of 24 Mar 1969

1. <u>Joint On-Call Patch Priority System</u>. The on-call patch priorities apply to all authorized users of the DCS. Users within each precedence category will be provided service in the order requested. To the degree necessary to ensure that communications are established and maintained, technical orderwire requirements will take precedence over priority designations. Application of precedence and preemption capability is outlined as follows:

#### a. FLASH

- (1) Application. Flash precedence is reserved for alerts, warnings, or other emergency actions having immediate bearing on national, command, or area security (e.g., Presidential use; announcement of an alert, land, air, or sea catastrophies; intelligence reports on matters lending to enemy attack; potential or actual nuclear accident or incident; implementation of services unilateral emergency action, procedures, etc.).
- (2) <u>Preemption Capability</u>. Has precedence over any other type of on-call patch having a lower precedence. (Note: Flash call may be preempted by the application of the flash override capability available to: (1) President of the United States, Secretary of Defense and Joint Chiefs of Staff; (2) Commanders of Unified and Specified Commands when declaring either Defense Condition One or Defense Emergency; (3) CINCNORAD when declaring either Defense Condition One or Air Defense Emergency.) Circuit Preemption: Preempts any circuit with restoration priority below IG.

#### b. IMMEDIATE

- (1) Application. Immediate precedence is reserved for vital communications having an immediate operational effect on tactical operations; and communications directly concerning safety or rescue operations; and communications affecting the intelligence community operational role (e.g., initial vital reports of damage due to enemy action, land, sea, or air reports which must be completed from vehicles in motion such as operational mission aircraft, intelligence reports on vital actions in progress; natural disaster or wide-spread damage emergency weather reports having an immediate bearing on mission in progress; emergency use for circuit restoration; use by tactical command posts for passing immediate operational traffic, etc.).
- (2) <u>Preemption Capability</u>. Has precedence over any other type on-call patch having a lower precedence. Circuit Preemption: Preempts any circuit with restoration priority below 1G.

BO 2305.5F 1 9 JUL 1978

#### c. PRIORITY

- (1) Application. Priority precedence is reserved for calls which require prompt completion for national defense and security, the successful conduct of war or to safeguard life or property, which do not require higher precedence (e.g., reports of priority land, sea or air movement; administrative, intelligence, operational, or logistic activities if handled on a ROUTINE call). Normally, PRIORITY will be the highest precedence that may be assigned to administrative matters for which speed for handling is of paramount importance.
- (2) <u>Preemption Capability</u>. Has precedence over any other type oncall patch having a lower precedence. Circuit Preemption: Preempts any circuit with restoration priority below 2I.

#### d. ROUTINE

- (1) Application. Routine precedence is reserved for all other official communications.
- (2) <u>Preemption Capability</u>. Has no precedence over any other type on-call patch. Circuit Preemption: None.

FELEPHONE SERVICE REQUEST	Submit o Ref: BO	original and 2 copies 2305.5	DATE SERVICE REQUESTED	-
ROM		NAME AND TELEPHONE MUMBER OF REQUESTOR		
Requesting Unit				
na 1.	CLASS	INSTALL	REMOVE	MOVE
"	AV			
2.				
	B-1			
	B-2			
COMMANDING GENERAL	B-3			
MARINE CORPS BASE	Ç			
CAMP LEJEUNE, N. C. 28542	MAGEN	XX		
TTN BASE TELEPHONE OFFICER	TELE			

- Date Service Required
   Date service to be terminated
   Location
   Requesting Unit (if different from above)
   Class of service desired

RESENT LOCATION OF EQUIPMENT			PRESENT DIRECTORY LISTING		
ROPOSED LOCATI	OH OF EQUIPMENT			PROPOSED DIRECTORY	LISTING
TAL TELEPHON	ES AT ACTIVITY			ADDITIONAL SERVICES	DEMPED
GNATURE OF RE	SPONSIBLE OFFICER				DATE
		John J.	JONES,	LtCol	22 Feb 78
		BASE T	EL EPHONE	OFFICE USE ONL	Υ
JEST APPROV	EU B1			WORK ORDER HUMBER	
	CHARGES			CONTRACT AUT	THORIZATION
ONTHI T	NONRE CURRING	CONTRACT NO.	RENTED SERY	IĆE CSÁ NO.	MAINTENANCE SERVICE CSA HO

9	CABLE	PAIR	TERMINAL NO.	LOCATION	BL.DG.	1ST PAIR	X CONN
IN							
TUC							
IRK SU	JPE RVISOR		PORK COMPLETED BY	DATE DUE		DATE COMPLETED	
1EF 0	PERATOR		ACC'TS CLERK	EQUIPMENT/MATERIAL	nrep.	<u> </u>	
C 080	ORR CLERK		DIRECTORY CLERK				

.1

ENCLOSURE (3)

## AUTOVON LISTING

Aero Systems Div - Wright-Patt AFB, Ohio	78x-xxxx	Ellington AFB - Houston, Texas	954-2xxx
Operator Assistance	782-1110 3 <b>71-1211</b>	Operator Assistance England AFB — Alexandria, La	954–2110 <b>683</b> –xxxx
Altus AFB, Okia	866-xxxx	Operator Assistance	683-1110
Operator Assistance	866-1110		
Andrews AFB, Washington, D. C	858-xxxx	Fairshild AFO Cashana Wash	250
Operator Assistance	858-1110 <b>694-</b> xxxx	Fairchild AFB — Spokane, Wash  Operator Assistance	<b>352</b> xxxx 3521110
Anniston Army Depot, Ala  Operator Assistance	694-1110	Fifth Army – Ft Sam Houston, Tex	471-xxxx
Army Military Academy - West Point, NY	688-xxxx	Operator Assistance	471–1110
Operator Assistance	688-1110	Fifth Naval District - Norfolk, Va	690-xxxx
		Operator Assistance	690-0111
Peals AED Maryruille Calif	368-xxxx	First Marine Corps District – Garden City, NY  First Naval District – Boston, Mass	994–9000 955–8×××
Beale AFB - Marysville,, Calif	368-1110	Operator Assistance	955-8010
Bergstrom AFB - Austin, Tex	685-xxxx	Fort Belvoir, Va	354-xxxx
Operator Assistance	685-1110	Operator Assistance	354-0110
Bolling AFB – Washington, DC	297—xxxx	Fort Benning, Ga Operator Assistance	7 <b>84-</b> xxxx 784-0110
Operator Assistance  Brooks AFB – San Antonio, Texas	227-0101 240-xxxx	Fort Bliss, Texas	97x-xxxx
Operator Assistance	240-1110	Operator Assistance	978-0831
		Fort Bragg, NC	23x-xxxx
	200	Operator Assistance	236-0311
Cameron Station — Alexandria, Va  Operator Assistance	<b>284</b> -xxxx 227-0101	Fort Campbell, Ky Operator Assistance	635-xxxx 635-1110
Cannon AFB - Clovis, NM	681—xxxx	Fort Carson, Colo	691-xxxx
Operator Assistance	681-1110	Operator Assistance	691-5811
Cape Canaveral Air Force Sta, Fla	467 -xxxx	Fort Chafee, Ark	962-2xxx
Operator Assistance	467–1110	Operator Assistance	962-2111
Carlisle Barracks, Pa  Operator Assistance	<b>242-xxx</b> x 242-4141	Fort Devens, Mass  Operator Assistance	<b>256</b> -xxxx 256-1110
Carswell AFB - Ft Worth, Texas	739-xxxx	Fort Dix, NJ	944-xxxx
Operator Assistance	739–1110	Operator Assistance	944-1110
Castle AFB – Merced, Calif	347–2XXX	Fort Eustis, Va	927-xxxx
Operator Assistance	347-1110 583-xxxx	Operator Assistance  Fort Gordon, Ga	927-1110 780-xxxx
Operator Assistance	583-0111	Operator Assistance	780-1110
CINCLANT - Norfolk, Va	690-xxxx	Fort Hancock, NJ	938-1580
Operator Assistance	690-0111	Fort Hayes, Ohio	850-3131
Columbus AFB, Miss  Operator Assistance	742-7xxx 742-1110	Fort Hood, TexasFort Jackson, SC	7372131 734xxxx
operator Addistance	142 1110	Operator Assistance	734–1110
		Fort Knox, Ky	464-xxxx
Davis Monthan AFB - Tucson, Ariz	361-xxxx	Operator Assistance	464-0111
Operator Assistance	361–1110 22x–xxxx	Fort Lawton, Wash  Operator Assistance	744-xxxx 744-3000
DCA Headquarters – Arlington, Va  Operator Assistance	227-0101	Fort Leavenworth, Kans	552-xxxx
DCASD - Reading, Pa	444-6xxx	Operator Assistance	552-1101
DCASR – Atlanta, Ga	697–9xxx	Fort Lee, Va	687-xxxx
Operator Assistance	697–9110	Operator Assistance	687-0111
DCASR - Chicago, III	<b>930-</b> xxxx 930-1110	Fort Lewis, Wash Operator Assistance	<b>357</b> xxxx 357-1110
Defense Depot - Ogden, Utah	790-7xxx	Fort McClellan, Ala	865-xxxx
Operator Assistance	790-7016	Operator Assistance	865-1110
Defense Gen Supply Ctr — Richmond, Va	695-xxxx	Fort McNair – Washington, DC	22x-xxxx
Operator Assistance  Detroit Arsenal – Warren, Mich	695–1110 273–xxxx	Operator Assistance  Fort McPherson, Ga	227 <i>-</i> 0101 588 <i>-</i> -xxxx
Operator Assistance	273-1101	Operator Assistance	588-1110
Dobbins AFB - Marietta, Ga	925-xxxx	Fort Meade, Md	923-xxxx
Operator Assistance	925-1110	Operator Assistance	923-1110
Dover AFB, Del	<b>455</b> xxxx 4551110	Fort Monmouth, NJ	<b>99</b> x–xxxx 992–9110
Dugway Proving Grounds, Utah	789—xxxx	Fort Monroe, Va	680-xxxx
Operator Assistance	789-1110	Operator Assistance	680-1110
Edgewood Arsenal, Md	584-xxxx	Fort Myer, Va Operator Assistance	22x-xxxx
Operator Assistance  Edwards AFB, Calif	584-1110 350-xxxx	Fort Polk, La	227-0101 863-xxxx
Operator Assistance	350-1110	Operator Assistance	863-1110
Elgin AFB - Valpariso, Fla,	872-1110	Fort Riley, Kans	856-xxxx
		Operator Assistance	856-1110

Ft Ritchie, Md	988-XXXX	Marine Corps Air Station — Cherry Point, NC	582-xxxx
Operator Assistance	988-1300	Operator Assistance	582-1110
Fort Rucker, Ala	558-xxxx	Marine Corps Air Station - El Toro, Calif	952-xxxx
Operator Assistance	558-1110	Operator Assistance	952-0111
Fort Sam Houston, Texas	471-xxxx	Marine Corps Air Station New River-Jax, NC	486-8xxx
Operator Assistance	471-1110	Operator Assistance,	484-1110
Fort Sill, Okla	639-xxxx	Marine Corps Air Station — Yuma, Ariz	957-XXXX
Operator Assistance	639-7090	Operator Assistance	957-2011
Fort Stewart, Ga	971-xxxx	Marine Corps Base - Camp Lejeune, NC	484-xxxx
Operator Assistance	971-1110	Operator Assistance	484-1110
Fort Story , Va	927-9xxx	Marine Corps Base — Camp Pendleton, Calif	993xxxx
Operator Assistance	927-9210	Operator Assistance	993_0111
Fort Wadsworth, NY	938-1630	Marine Corps Base - Quantico, Va	278-xxxx
		Operator Assistance	278-2121
		Marine Corps Base — 29 Palms, Calif	952-xxxx
General Billy Mitchell Field, Wisc	786-9xxx	Operator Assistance	952–6000
Operator Assistance	786-9110	Marine Corps Command Center — Arlington, Va	725-1694
Gentile AFB, Ohio	850-xxxx		851-3620
Operator Assistance	850-5111	Operator Assistance	225–7366
George AFB — Victorville, Calif	353-xxxx	Marine Corps Headquarters — Washington, D. C.	22x-xxxx
Operator Assistance	353-1110	Operator Assistance	2270101
Greater Pittsburgh Airport, Pa	277-8×××	Marine Corps Recruit Depot — Parris Island, SC.	832-xxxx
Operator Assistance	277-8011	Operator Assistance	832-1110
Grissom AFB – Peru, Ind	928-xxxx	Marine Corps Recruit Depot — San Diego, Calif.	957-xxxx
Operator Assistance	928-1110	Operator Assistance	9570111
Gunter AFB — Montgomery, Ala	921-xxxx	Marine Corps Supply Center - Albany, Ga	460-xxxx
Operator Assistance	921-1110	Operator Assistance	460-2011
		Marine Corps Supply Center — Barstow, Calif	282-xxxx
		Operator Assistance	282-0111
Hancock Field – Syracuse, NY	587-9xxx	Maxwell AFB, Ala	875-xxxx
Operator Assistance	587-9110	Operator Assistance	8751110
Hanscom Field — Bedford, Mass	478xxxx	McGuire AFB, NJ	440-xxxx
Operator Assistance	478-1001	Operator Assistance	440-0111
Hill AFB — Ogden, Utah	458xxxx	Minot AFB, ND	344-xxxx
Operator Assistance	458-1110	Operator Assistance	344-1110
Homestead AFB, Fla	791-xxxx	Mo ody AFB – Valdosta, Ga	460xxxx
Operator Assistance	7910111	Operator Assistance	460-1110
		Myrtle Beach AFB, SC	748-xxxx
The same and the same	n.,	Operator Assistance	748-1110
Indiana Army Ammunition Plant, Ind	366-xxxx		
Operator Assistance	366-1110	N 14:00:00 D 11:40:	
		Naval Air Station – Brunswick, Maine	476-xxxx
Let a Court I be a different		Operator Assistance	476-1110
Joint Switchboard, Hawali	315-430-0111	After Working Hours	476-2622
		Naval Air Station — Corpus Christi, Texas	861-xxxx
Will affect to the state of the		Operator Assistance	861-1110
Kelly AFB – San Antonio, Texas  Operator Assistance	94x-xxxx	Naval Air Station - Dallas, Texas	874-6xxx
Kirtland AFB - Albuquerque, NM	945—1110 964—xxxx	Operator Assistance	874-6110
		Naval Air Station – Jacksonville, Fla	942-xxxx
Operator Assistance	964-0011	After Working Hours Naval Air Station — Key West, Fla	942-2338
Lockland AED. For Antonia Torre	470	Operator Assistance	483-2178
Lackland AFB - San Antonio, Texas	473-xxxx		483xxxx
Operator Assistance	473–1110	Naval Air Station — Lakehurst, NJ	624-xxxx
Langley AFB – Hampton, Va	432-xxxx	Uperator Assistance	624-1110
Operator Assistance,  Loring AFB — Limestone, Maine	432–1110	Naval Air Station — Lemoore, Calif Operator Assistance	949-xxxx
Operator Assistance	920-xxxx 920-1110	10pm-6am	949-4110 <b>949-3360</b>
Los Angeles Air Force Station, Calif			
Operator Assistance	833-xxxx 833-1110	Naval Air Station — Memphis, Tenn Operator Assistance	966xxxx
Operator Information	833–1110 833–2110	Naval Air Station – New Orleans, La	966–5111 363–3xxx
Lowry AFB – Denver, Colo	926-xxxx	Operator Assistance	363-3011
Operator Assistance	926-1110	Naval Air Station - North Island, Calif	
Luke AFB – Glendale, Ariz	853-xxxx	Operator Assistance	951-xxxx 951-0111
Operator Assistance	853-1110	Naval Air Station - Patuxent River, Md	356-xxxx
MacDill AFB, Fla	968-xxxx	Operator Assistance	356-0111
Operator Assistance	968-1110	Naval Air Station — Pensacola, Fla	922-xxxx
March AFB - Riverside, Calif	947-xxxx	Operator Assistance	922-0111
Operator Assistance	947-1110	Naval Air Station - South Weymouth, Mass	948–9xxx
Marine Corps Air Station – Beaufort, SC	630-1500	After Working Hours	948-9011
Doddiol & collection	050-1500		140-1011

Naval Air Station Moffett Field, Calif	462-xxxx	Norfolk Naval Shipyard - Portsmouth, Va	961-xxxx
Operator Assistance	462-0111	Operator Assistance	961-0111
10pm — 7am	462-5326	Norton AFB - San Bernardino, Calif	876-xxxx
Naval Air Station Oceana - Virginia Beach, Va.	274-xxxx	Operator Assistance	876-1110
Operator Assistance	274-1110	·	
Naval Air Station - Whidbey Island, Wash	820-xxxx		
Operator Assistance	820-0111	Oakland Army Base, Calif	864-xxxx
Naval Air Station - Willow Grove, Pa	991-xxxx	Operator Assistance	864-0111
Operator Assistance	991-1110	Offutt AFB - Omaha, Neb	271-xxxx
Non Duty Hours	991-4277	Operator Assistance	271-1110
Naval Ammunition Depot - Bangor, Wash	744-4xxx	Orlando Naval Training Center, Fla	791-xxxx
Operator Assistance	744-1110	Operator Assistance	791-4111
Naval Ammunition Depot Earle, NJ	449–1xxx	Pacific Missile Range — Point Mugu, Calif	351-7001
Operator Assistance	449-1110	Pentagon	22x-xxxx
-	482-xxxx	PBX Operator Assistance	227-0101
Naval Ammunition Depot — Crane, Ind  Operator Assistance	482-1000	Picatinny Arsenal - Dover, NJ	880-xxxx
•	680-xxxx	Operator Assistance	880-1110
Naval Amphibian Base – Little Creek, Va	680-0111	Pope AFB, NC	
Operator Assistance	830-xxxx	Operator Assistance	<b>486-</b> xxxx 486-1110
Naval Air Station – Fallon, Nev		operator Assistance,	400-1110
Naval Base - Charleston, SC	794–xxxx		
Operator Assistance	794–2000	Dondelnh AED Universal City Toyon	407
Information	794–4111	Randolph AFB — Universal City, Texas	487-xxxx
Naval Base - Norfolk, Va	690-xxxx	Operator Assistance	487-1110
Operator Assistance	690-0111	Redstone Arsenal – Huntsville, Ala	746-xxxx
Naval Communication Station — Cheltenham, Md.	251-xxxx	Operator Assistance	746-0011
Operator Assistance	227-0101	Reese AFB — Hurlwood, Texas	838-xxxx
Naval Hospital - Bethesda, Md	29x—xxxx	Operator Assistance	838-1110
Operator Assistance	227-0101	Robins AFB - Warner Robins, Ga	468-xxxx
Naval Hospital Boston – Chelsea, Mass	955-8xxx	Operator Assistance	468-1001
Operator Assistance	958_8010	Rock Island Arsenal, III	793-xxxx
Naval Ordnance Plant - Louisville, Ky	98 <b>9</b> –5xxx	Operator Assistance	793–1110
Operator Assistance	989-5011	•	
AWH	989-5205	T.	
Naval Post Graduate School - Monterey, Calif	878-xxxx	Savanna Army Depot, III	585-xxxx
Operator Assistance	878-0111	Operator Assistance	585-1110
Naval Shipyard - Portsmouth, NH	684-xxxx	Shaw AFB - Sumter, SC	965-xxxx
Operator Assistance	684-0111	Operator Assistance	<del>9</del> 65–1110
Naval Station - Charleston, SC	794-xxxx	Sheppard AFB - Wichita Falls, Texas	736-xxxx
Operator Assistance	794-2000	Operator Assistance	736-1001
Information	794–4111	Ships Parts Control Center G Mechanicsburg, Pa.	430-xxxx
Naval Station - Key West, Fla	483-2178	Operator Assistance	430-4410
Naval Station - Mayport, Fla	960-5xxx	AWH	430-2691
Operator Assistance	960-5011	Sixth Naval District - Charleston, SC	794-xxxx
Naval Station - Newport, Rl	948-xxxx	Operator Assistance	794-2000
Operator Assistance	948-1110	Information	794-4111
Naval Station - San Diego, Calif	958xxxx	1	
Operator Assistance	958-0111		
Naval Station - Treasure Island, Calif	864-xxxx	Third Naval District - New York, NY	456xxxx
Operator Assistance	864-0111	Operator Assistance	456-2011
1800 - 0630	864-6233	Duty Officer AWH	456-2217
Naval Submarine Base - New London, Conn	241-xxxx	Travis AFB, Calif	837-xxxx
Operator Assistance	241-0111	Operator Assistance	837-1110
Naval Supply Center - Oakland, Calif	836-xxxx	Twelfth Naval District - San Francisco, Calif	933-8xxx
Operator Assistance	836-0111	Operator Assistance	993-8011
Naval Support Activity – Philadelphia, Pa	443-xxxx	Tyndall AFB - Panama City, Fla	970-xxxx
Operator Assistance	443-0111	Operator Assistance	970-1110
Naval Training Center – Great Lakes, III	792-xxxx	• • • • • • • • • • • • • • • • • • • •	,,,
Operator Assistance	792-2000		
Naval Underwater Systems Center, Conn	636-xxxx	U S Naval Academy - Annapolis, Md	281-xxxx
Operator Assistance	636-0111	Operator Assistance	281-0111
Naval Weapons Station - Concord, Calif	253-5111	Vance AFB - Enid, Okla	962–7×××
	682-xxxx	Operator Assistance	962-7110
Nellis AFB — Las Vegas, Nev  Operator Assistance	682-1800	Vint Hill Farms — Warrenton, Va	249-xxxx
·	580-xxxx	Operator Assistance	249-0111
Newark Air Force Station, Ohio			£17 VIII
Operator Assistance	580-1110 489-3xxx	t .	
Niagara Falls Municipal Airport, NY		Westover AFB - Chicopee, Mass	589-xxxx
Operator Assistance	489-3011	Operator Assistance	589-1110
Naval Air Station — Glenview, III	932–xxxx 932–0111	White House – Washington, DC	
Operator Assistance	772-0111	minte nouse - mashington, bo	231–1467

Here the control of t

Williams AFB - Chandler, Ariz Operator Assistance	474-xxxx 474-1011
Yakima Firing Center, Wash	355–8×xx 355–8100 953–×xxx
Operator Assistance	953-0111 899-xxxx 899-1110 899-2020

25×1-458-283

NWSC # 482-1000

## AUTOVON OFF-NET DIRECTORY

ALABAMA		CALIFORNIA	
Anniston - Army Depot	694-1110	Adelanto – George AFB	353-1110
Ft McClellan	865-1110	Alhambra – LA AFS	833-1110
Birmingham - ANG	694-2210	Altadena – LA AFS	833-1110
Daleville - Ft Rucker	558-1110	Anahiem — El Toro	952-0111
Echo - Ft Rucker	558-1110	Apple Valley - George AFB	353-1110
Enterprise - Ft Rucker	558-1110	Arcadia – LA AFS	833-1110
Headland – Ft Rucker	558-1110	Artesia – LA AFS	833-1110
Huntsville - Redstone Arsenal	746-0011	Atwater – Castle AFB	347-1110
Jacksonville - Army Depot	694-1110	Azusa – LA AFS	833-1110
Midland City — Ft Rucker	558-1110	Baldwin Park – LA AFS	833-1110
Montgomery – Gunther AFB	921-1110	Barstow – LA AFS	833-1110
Maxwell AFB	875-1110	Bell – LA AFS	833-1110
Newton – Ft Rucker	558-1110	Bellflower – LA AFS	833-1110
Ozark – Ft Rucker	558-1110	Bell Garden – LA AFS	833-1110
Phoenix City – Ft Benning	784-0110	Beverly Hills – LA AFS	833-1110
Pinckard – Ft Rucker	558-1110	Bloomington - Norton AFB	876-1110
Prattville – Maxwell AFB	875-1110	Boron — Edwards AFB	350-1110
Seale - Ft Benning	784-0110	Bradbury – LA AFS	833-1110
Wetumpka Maxwell AFB	875-1110	Brentwood – LA AFS	833-1110
		Burbank – LA AFS	833–1110
A DI ZONIA		Calimesa – Norton AFB	876-1110
ARI ZONA		Camarillo — Nav Const Bn Canoga — LA AFS	360-4001
Apache Junction - Williams AFB	474-1011	Carmel ~ Ft Ord	833-1110 929-1110
Ayondale – Luke AFB	853–1110	Carlsbad — Camp Pendleton	993-0111
Cashion – Luke AFB	853–1110 853–1110	Camichael – Mather AFB	828-1110
Cashon – Luke AFB	474-1011	Carson – Ft MacArthur	972–1110
El Mirage – Luke AFB	853-1110	Chatsworth – LA AFS	833-1110
Flagstaff - Navajo Army Depot	790-1110	China Lake - China Lake Nav Ord	245-9011
Glendale – Luke AFB	853-1110	Chula Vista – NAS	959-0111
Goodyear – Luke AFB	853-1110	Colton - Norton AFB	876-1110
Higley – Williams AFB	474–1011	Commerce – LA AFS	833-1110
Litchfield Park - Luke AFB	853-1110	Compton - Ft MacArthur	972-1110
Mather – Williams AFB	474-1011	Corona - Naval Weapons Center	933-0111
Mesa - Williams AFB	474-1011	Costa Mesa – El Toro Air Station	952-0111
Peoria – Luke AFB	853-1110	Covina – LA AFS	833-1110
Phoenix – Luke AFB	853-1110	Culver City - LA AFS	833-1110
Williams AFB	474-1011	Desert Knolfs - George AFB	353-1110
San Lois - MC Air Station	951-3011	Downey - LA AFS	833-1110
Scottsdale - Williams AFB	474-1011	Edgemont - March AFB	947-1110
Sierra Vista – Ft Huachuca	879-1110	Edwards – Edwards AFB	350~1110
Somerton — M.C. Air Station	951-3011	El Cajon – NAS	9590111
Sun City - Luke AFB	853-1110	El Centro – NAS	9589101
Surprise - Luke AFB	853-1110	Elk Grove – Mather AFB	828-1110
Tempe - Williams AFB	474-1011	E   Rio - Nav Const Bn	360-4011
Tolleson – Luke AFB	853-1110	El Toro – El Toro Air Station	952-0111
Tucson - Davis Monthan AFB	361-1110	Encinitas – Camp Pendleton	993-0111
Youngstown – Luke AFB	853~1110	Engino – Ft MacArthur	972-1110
Yuma – MC Air Station	951~3011	Englewood – Ft MacArthur	972-1110
Proving Grounds	899-1110	Fairfield - Travis AFB	837-1110
		Fair Oaks — Mather AFB Fallbrook — Camp Pendleton	828-1110
ARKANSAS		Folsom – Mather AFB	993-0111 828-1110
AKK ANSAS		Fontana – Norton AFB	876-1110
Barling - Ft Chaffee	962-2111	Gardena – Ft MacArthur	972-1110
Blytheville – Blytheville AFB	637~1110	Garden Grove — El Toro Air Station	952-0111
Dell – Blytheville AFB	637-1110	Glendale – LA AFS	833-1110
Ft Smith - Ft Chaffee	962-2111	Glendora – LA AFS	833-1110
Gosnell - Blytheville AFB	637-1110	Grano Terrace – Norton AFB	876-1110
Jacksonville – Little Rock AFB	731-1110	Grenada Hills – LA AFS	833-1110
Little Rock – Little Rock AFB	731-1110	Hanford — Lemoore NAS	949-4110
Texarkana - Red River Depot	829-4110	Harbor City – LA AFS	833-1110
Van Buren – Ft Chaffee	962-2111	Hawthorne – Ft MacArthur	972-1110
		Haywood - ANG	462-5673
		Hellendale - George AFB	353-1110
		Herlong - Sierra Army Depot	830-9910
		Hermosa Beach - LA AFS	833-1110
		Hesperia — George AFB	353-1110

Highland Norton AFB	8761110	Pasadena – LA AFS	833-1110
Hollywood – LA AFS	833-1110	Nav UDS Center	933-1011
Huntington Park - LA AFS	833-1110	Pebble Beach - Ft Ord	929-1110
Incline Village — Sierra Army Depot	830-9910	Planda - Castle AFB	347-1110
Industry – LA AFS	833-1110	Ploya Del Rio - LA AFS	833-1110
Invinville – LA AFS	833-1110	Point Magu - Pacific Missile Range	351-1110
Lacanada – LA AFS	833-1110	P ort Hueneme – Nav Const Bn	360-4001
		Rancho Cordova – Mather AFB	828-1110
Lacresenda – LA AFS	833-1110		
La Grand – Castle AFB	347-1110	Redlands – Norton AFB	876-1110
Lakewood – LA AFS	833-1110	Redonnu – LA AFS	833-1110
La Mesa – Marine Depot	9570111	Reno - Sierra Army Depot	830-9910
Lamirada – LA AFS	833-1110	Rialto - Norton AFB	876-1110
Lancaster – Edwards AFB	350-1110	Rico Rivera – LA AFS	833-1110
La Puente – LA AFS	833-1110	Ridge Crest — China Lake Nav Ord	2459011
Lawndale - LA AFS	833-1110	Rio Linda - Mather AFB	828-1110
Lemoore – Lemoore NAS	949-4110	Riverside - March AFB	947-1110
Live Oak - Beale AFB	368-1110	Rolling Hills - LA AFS	833-1110
Loma Linda – Norton AFB		Rosemeade – LA AFS	
	876-1110		833-1110
Lomita - Ft MacArthur	972-1110	Roseville – McClellan AFB	633-1110
Lompac - Vandenburg AFB	276–1110	Rubidoux – March AFB	947-1110
Long Beach - Ft MacArthur	972-1110	Sacramento – Mather AFB	828-1110
Naval Station	360-0111	McClellan AFB	633-1110
Los Alamitos - LA AFS	833-1110	San Bernardino – Norton AFB	876-1110
Los Angeles - Ft Mac Arthur	972-1110	San Bruno — Nav Fac Eng	859-7111
LA AFS	833-1110	San Clemente — Camp Pendleton	993-0111
Los Nietos – LA AFS	833-1110	San Diego — Naval Station	958-0111
Lynwood – LA AFS	833-1110	Naval District	933-8011
Malibu – LA AFS		San Fernando – LA AFS	833-1110
Manbattan Darah   LA AEC	833-1110		
Manhattan Beach - LA AFS	833-1110	San Francisco – Presidio of S. F	586-1110
Manhattan Heights – Ft MacArthur	972-1110	San Gabriel – LA AFS	833-1110
Marina Beach - Ft Ord	929-1110	San Marino – LA AFS	833-1110
Marvista – LA AFS	833-1110	San Pedro — Ft MacArthur	972-1110
Marysville - Beale AFB	386-1110	Santa Fe Springs — LA AFS	833-1110
Maywood – LA AFS	833-1110	Santa Maria - Vandenburg AFB	276-1110
Mentone - Beale AFB	368-1110	Santa Monica — LA AFS	833-1110
Norton AFB	876-1110	Santa Rita – LA AFS	833-1110
Merced - Castle AFB	347-1110	Seaside - Ft Ord	929-1110
Milpitas – AF Sat Tst Center		Sepulveda – LA AFS	833-1110
Miramar – NAS.	350-1110	Sherman Oaks – LA AFS	833-1110
	959-0111		
Miralesti – LA AFS	833-1110	Sierra Madre – LA AFS	833-1110
Monterey – Ft Ord	929-1110	Signal Hill – LA AFS	833-1110
Monronia – LA AFS	833–1110	Smartsville – Beale AFB	<b>368</b> -1110
Montrose – LA AFS	833-1110	Southgate – LA AFS	833-1110
Montabellow – LA AFS	833-1110	South Elmonte - LA AFS	833-1110
Momingside Park - LA AFS	833-1110	South Pasadena – LA AFS	833-1110
Mount Wilson - LA AFS	833-1110	Sparks - Sierra Army Depot	830-9910
National City - NAS	959-0111	Studio City – LA AFS	833-1110
North Highland – Mather AFB		Suisun – Travis AFB	837-1110
	828-1110	Sunland - LA AFS	
North Hollywood – Ft Macarthur	972–1110	Sunny Meade – March AFB	833-1110
North Island - NAS	951-0111		947-1110
North Side – LA AFS	833-1110	Sunset Beach - LA AFS	833-1110
North Yuba – Beale AFB	368-1110	Sun Valley – LA AFS	833-1110
Norwalk – LA AFS	833-1110	Sylman – LA AFS	833-1110
Oakland - Naval Hospital	8550111	Tarzana – LA AFS	833-1110
Oakland Army Term	864-0111	Temple City - LA AFS	833-1110
Ocean Park – LA AFS	833-1110	Terminal Island - LA AFS	833-1110
Oceanside - Camp Pendleton	993-0111	Topanga - LA AFS	833-1110
Olivehurst – Beale AFB	386-1110	Torrance — Ft MacArthur	972-1110
Ontario – ANG		Tujunga – LA AFS	833-1110
Orangeville – Mather AFB	898-3870	Twenty-nine Palms - Marine Base	952-6000
	828-1110		
Orogrande – George AFB	3531110	Vacaville – Travis AFB	837-1110
Oxnard – Pacific Missle Range	351-1110	Vallejo – Naval Ops Tng Center	253-0111
Pacific Grove - Ft Ord	929-1110	Van Nuys – LA AFS	833-1110
Pacific Palisade – LA AFS	833-1110	Venice – LA AFS	833-1110
Palms - LA AFS	833-1110	Verdi — Sierra Army Depot	<b>830-99</b> 10
Paloima – LA AFS	833-1110	Vemon – LA AFS	833-1110
Palos Verde – LA AFS	833-1110	Victorville - George AFB	353-1110
Panarama – LA AFS	833–1110	Vista - Camp Pendleton	993-0111
Paramount – LA AFS	833-1110	Washoe Valley - Sierra Army Depot	830-9910
	077-1110	Watts – LA AFS	833-1110
			JJJ 1110

Westchester – LA AFS	833-1110	FLORIDA	
Westwood - LA AFS	833-1110		
West Covina – LA AFS	833-1110	Bay Pines — MacDill AFB	968-1110
Wheatland - Beale AFB	368-1110	Boynton Beach - Nav ATUS Test Center	483-7208
Whittier – LA AFS	833-1110	Cocoa – Patrick AFB	854-1110
Wilmington – LA AFS	833-1110	Cape Canaveral	467-1110
- · · · · · · · · · · · · · · · · · · ·		Cocoa Beach – Patrick AFB	
Willow Brook – LA AFS	833-1110		854-1110
Winterhaven – M. C. Air Station	957-2011	Camel Basels Basels AFB	467-1110
Winton – Castle AFB	347-1110	Coral Beach - Patrick AFB	854-1110
Woodland Hills - LA AFS	833-1110	Cape Canaveral	467-1110
Yuba City — Beale AFB	368-1110	Crestview – Eglin AFB	872-1110
Yucaipa - Norton AFB	876-1110	Destin – Eglin AFB	872-1110
,		Dismore - Cecil Field	860-6042
		Eau Gallie – Patrick AFB	854-1110
COLORADO		Cape Canaveral	467-1110
- OLO KADO		Fountain - Tyndall AFB	970-1110
Arrada Loury AEB	024 1110	Ft Walton Beach - Eglin AFB	872-1110
Arvada – Lowry AFB	926-1110	Green Hills ~ Tyndall AFB	
Aurora – Lowery AFB	926-1110	Gulf Breeze - Whiting Field	970-1110
Fitzsimmons Med Center	943-1101	Usefeels themselved AFD	868-7011
Boulder - Lowry AFB	926-1110	Hialeah - Homestead AFB	7910111
Fitzsimmons Med Center	943-1101	Homestead – Homestead AFB	791-0111
Brighton Lowry AFB	926-1110	Indian Harbor - Patrick AFB	854-1110
Broomfield – Lowry AFB	926-1110	Cape Canaveral	467-1110
Castle Rock – Lowry AFB	926-1110	Indialantic - Patrick AFB	854-1110
Coal Creek - Lowry AFB	926-1110	Cape Canaveral	467-1110
Colorado Springs – Ft Carson	691-5811	Jacksonville - Cecil Field	860-6042
Peterson AFB	692-4113	Jay — Whiting Field	868-7011
		Jupiter - Nav ATUS Test Center	483-7208
AF Academy	259-3110	Key West - Navy	
Denver – Lowry AFB	926-1110	Lantana – Nav ATUS Tst Center	483-2178
Fitzsimmons Med Center	943-1101		483-7208
Rocky Mt Arsenal	556-1110	Largo – MacDill AFB	968-1110
Englewood – Lowry AFB	926-1110	Lynn Haven - Tyndall AFB	970-1110
Fountain - AF Academy	259-3110	Mary Ester - Eglin AFB	872-1110
Golden - Lowery AFB	926-1110	Melbourne Patrick AFB	854-1110
Fitzsimmons Med Center	943-1101	Cape Canaveral	467-1110
Lafayette - Lowry AFB	926-1110	Merritt Island - Patrick AFB	854-1110
Lakewood – Lowery AFB	926-1110	Cape Canaveral	467-1110
Littleton - Lowry AFB	926-1110	Miami - Homestead AFB	791-0111
Lookout Mountain – Lowry AFB		Milton - Whiting Field	868-7011
	926-1110	Mims – Patrick AFB	854-1110
Louisville – Lowry AFB	926-1110	Cape Canaveral	
Morrison – Lowry AFB	926-1110		467-1110
Northglen - Lowry AFB	926-1110	Niceville – Eglin AFB	872-1110
Parker - Lowry AFB	92b-1110	Pace - Whiting Field	868-7011
Security — AF Academy	259-3110	Palm Beach - Nav ATUS Tst Ctr	483-7208
Westminister - Lowry AFB	926-1110	Panama City — Nav Dev Lab	436-4011
		Tyndall AFB	970-1110
		Pensacola - Pensacola NAS	922-0111
CONNECTICUT		Perrine - Homestead AFB	791-0111
0011/201		Pinellas Park - MacDill AFB	968-1110
Gales Ferry – Naval Sub Base	241-0111	Satellite Beach - Patrick AFB	854-1110
•		Cape Canaveral	467-1110
Groton - Nav Sub Base	241-0111	Shalimar — Eglin AFB	
Leoyard - Nav Sub Base	241-0111		872-1110
Mystic - Nav Sub Base	241-0111	Southport - Tyndall AFB	970-1110
New London - Nav Sub Base	2410111	St Petersburg — MacDill AFB	968-1110
Niantic - Nav Sub Base	241-0111	S unlight Beach - Patrick AFB	854-1110
Norwich - Nav Sub Base	241-0111	Cape Canaveral	467-1110
		Tampa – MacDill AFB	968-1110
		Valpariso – Eglin AFB	872-1110
DELAWARE		White House - Cecil Field	860-6042
		Youngstown - Tyndall AFB	860-6042
Camden - Dover AFB (AC 215)	AEE 1110		W 1E
	455-1110		
Dover – Dover AFB	455-1110	G EORGIA	
Felton – Dover AFB	455–1110	AMAIN	
Frederica - Dover AFB	455-1110	Acuarth Ct MaDharcan	FD0 3334
Harrington - Dover AFB	455-1110	Acworth – Ft McPherson	588-1110
Hartly - Dover AFB	455-1110	Dobbins AFB	925-1110
Milford - Dover AFB	455-1110	Albany - M. C. Supply Center	460-2011
Smyrna ~ Dover AFB	455-1110	Alpharetta – Ft McPherson	588-1110
Wilmington Dover AFB	455-1110	Dobbins AFB	925-1110
_	· · · · · ·	Athens — Nav Sup Center	588-7222

Atlanta — Ft McPherson	588-1110	Statham - Nav Sup Center	588-7222
Dobbins AFB	925-1110	Stockbridge - Ft McPherson	588-1110
Augusta - Ft Gordon	780-1110	Dobbins AFB	925-1110
Austell – Ft McPherson	588-1110	Stone Mountain - Ft McPherson	588-1110
Dobbins AFB		Dobbins AFB	925-1110
	925-1110		
Baconton – M. C. Supply Center	460-2011	Sylvester – M. C. Sup Center	460-2011
Bogart - Nav Sup Center	5887222	Tucker – Ft McPherson	588-1110
Buford – Ft McPherson	<b>588-1</b> 110	Dobbins AFB	925-1110
Byron - Robins AFB	468-1001	Val Dosta – Moody AFB	460-1110
Carliton - Nav Sup Center	588-7222	Warner Robins - Robins AFB	468-1001
Centerville - Robins AFB	468-1001	Wilkinsville - Nav Sup Center	588-7222
Chamblee - Ft McPherson	588-1110	Winterville - Nav Sup Center	588-7222
Dobbins AFB	925-1110	Woodstock - Ft McPherson	588-1110
Colbert - Nav Sup Center	588-7222	Dobbins AFB	925-1110
		DODDING AL D	723-1110
Columbus – Ft Benning	784-0110		
Comer – Nav Sup Center	588 – 7222		
Conyers – Ft McPherson	588-1110		
Dobbins AFB	925-1110	IDAHO	
Crawford - Nav Sup Center	588-7222		
Dallas - Ft McPherson	5881110	Boise – ANG	941-5011
Dobbins AFB	925-1110	Mt Home AFB	857-1110
Danielsville - Nav Sup Center	588 – 7222	Glenns Ferry - Mt Home AFB	857-1110
Decatur – Ft Gillem	797-1001	Mountain Home - Mt Home AFB	857-1110
		Mountain nome - wit nome Arb	657-1110
Douglasville - Ft McPherson	588-1110		
Dobbins AFB	925-1110		
Duluth - Ft McPherson	588-1110	ILLINOIS	
Dobbins AFB	925-1110		
East Point - Ft Gillem	797-1001	All Cities - Chanute AFB	862-1110
Fairburn - Ft McPherson	588-1110		
Dobbins AFB	925-1110		
Fayetteville – Ft McPherson	588-1110	INDI ANA	
		INPIANO	
Dobbins AFB	925-1110	Ambara Odrava APP	000 3130
Forest Park - Ft Gillem	797-1001	Amboy - Grissom AFB	928-1110
Hampton — Ft McPherson	588-1110	Bearfield – ANG	889-1550
Dobbins AFB	925-1110	Bunker Hill - Grissom AFB	928-1110
IIa - Nav Sup Center	588-7222	Hanover - Proving Grounds	480-1110
Jonesboro - Ft McPherson	588-1110	Indianapolis - Ft Ben Harrison	699-1110
Dobbins AFB	925-1110	Grissom AFB	928-1110
Lakepark - Moody AFB	460-1110	Kokomo – Grissom AFB	928-1110
Lawrenceville - Ft McPherson			
	588-1110	Logansport - Grissom AFB	928-1110
Dobbins AFB	925-1110	Madison - Proving Grounds	480-1110
Leary — M. C. Supply Center	460-2011	North Madison — Proving Grounds	480-1110
Leesburg - M. C. Supply Center	460-2011	Peru — Grissom AFB	928-1110
Lexington - Nav Sup Center	588-7222		
Lithonia – Dobbins AFB	925-1110		
Locust Grove - Ft McPherson	588-1110	IOWA	
Dobbins AFB	925-1110	14	
Logansville – Dobbins AFB		Burlington - Army Ammo Plant	- 551-1561
	925-1110	Council Bluffs Offutt AFB	
Lowndes County – Moody AFB	460-1110	COUNCIL DIGHS - UTILITE AFB	271–1110
Macon – Robins AFB	468-1001		
Marietta - Ft McPherson	588-1110		
Dobbins AFB	925-1110	KANSAS	
Maxeys — Nav Sup Center	588-7222		
McDonough - Ft McPherson	588-1110	Andover - McConnell AFB	962-1110
Dobbins AFB	925-1110	Augusta - McConnell AFB	962-1110
Newton – M. C. Sup Center		Bentley - McConnell AFB	962-1110
Norcross – Ft McPherson	460-2011	Colwich – McConnell AFB	962-1110
	588-1110		
Dobbins AFB	925~1110	Derby - McConnell AFB	962-1110
Palmetto - Ft McPherson	588-1110	Goddard – McConnell AFB	962-1110
Dobbins AFB	925-1110	Junction City – Ft Riley	856-1110
Panola – Ft McPherson	588-1110	Kansas City - Richards-Gebaur AFB	465-1110
Dobbins AFB	925-1110	Lansing — Ft Leavenworth	552-1101
Perry - Robins AFB	468-1001	Leavenworth - Ft Leavenworth	552-1101
Phenix – Ft Benning	784-0110	Maize - McConnell AFB	962-1110
Powder Springs - Ft McPherson	588-1110	Manhattan - Ft Riley	856-1110
Dobbins AFB		Milford – Ft Riley	
	925-1110		856-1110
Roswell – Ft McPherson	588-1110	Mulvane – McConnell AFB	962-1110
Dobbins AFB	925-1110	Ogden – Ft Riley	856-1110
Smyrna - Ft McPherson	588-1110	Park City - McConnell AFB	962-1110
Dobbins AFB	925-1110	Parkview – McConnell AFB	962-1110

Peck - McConnell AFB	962-1110	Cantonville - Army Switch	851-3350
Rose Hill - McConnell AFB	962-1110	Capital Heights - Army Switch	851-3350
Salina – Ft Riley	856-1110	Cascade – Ft Ritchie	988-1300
Sedgewick - McConnell AFB	962-1110	Clinton – Ft Ritchie	
Shawnee Mission — Richards—Gebaur AFB	465-1110	College Park — Army Switch	988-1300
Topeka – Forbes AFB	720-4210	Dahlgren – Nav Weapons Center	851-3350
Valley Center McConnell AFB		Edmond Assess	249-1110
	962–1110	Edgewood – Arsenal	584-1110
Wakefield – Ft Riley	856-1110	Emmitsburg — Ft Detrick	343-1110
Whitewater - McConnell AFB	962-1110	Frederick - Ft Detrick	343-1110
Wichita — McConnell AFB	962-1110	Ft Ritchie	988-1300
		Gaithersberg - Ft Ritchie	988-1300
		Glen Burnie – Ft Meade	923-1110
KENTUCKY		Greenbelt - Army Switch	851-3350
		Hagerstown - Ft Ritchie	988-1300
Hopkinsville - Ft Campbell	635-1110	Havre de Grace - Proving Grounds	283-1110
Louisville - Ft Knox	464-0111	Highfield - Ft Ritchie	988-1300
Navy Ordnance	989-5011	Hyattsville Ft Belvoir	354-0110
•		Landover - Army Switch	851-3350
		Laurel — Army Switch	851~3350
LOUISIANA		Meyersville - Ft Detrick	343-1110
		Middletown - Ft Detrick	343-1110
Alexandria — England AFB	683-1110	Mount Airy – Ft Detrick	
Benton – Barksdale AFB	781-1110	New Market – Ft Detrick	343-1110
Blanchard – Barksdale AFB	781-1110 781-1110		343-1110
Bossier City – Barksdale AFB	781–1110 781–1110	Odenton — Ft Meade	923-1110
		Rockville - Ft Belvoir	354-0110
Boyce - England AFB	683-1110	Severna – Army Switch	851–3356
De Ville - England AFB	683-1110	Silver Springs - Ft Belvoir	354-0110
Gloster – Barksdale AFB	781–1110	State Of Maryland — Army Switch	851-3350
Greenwood – Barksdale AFB	781–1110	Suitland — Ft Belvoir	354-0110
Haughton – Barksdale AFB	781-1110	Thurmont – Ft Detrick	343-1110
Keatchie – Barksdale AFB	781-1110	Ft Ritchie	988-1300
Keithville – Barksdale AFB	781-1110	Union Bridge - Ft Detrick	343-1110
Le Compte - England AFB	683-1110	Walkersville - Ft Detrick	343-1110
Leesville – Ft Polk	8631110		
Morningsport - Barksdale AFB	781-1110		
Oil City - Barksdale AFB		MASSACHUSETTS	
Oil City — Barksdale AFBShreveport — Barksdale AFB	781-1110	MASSACHUSETTS	
Shreveport - Barksdale AFB	781-1110 781-1110		955_8010
	781-1110	Amesbury – Army Base	955–8010 589–1110
Shreveport - Barksdale AFB	781-1110 781-1110	Amesbury – Army Base	589-1110
Shreveport Barksdale AFB	781-1110 781-1110	Amesbury — Army Base	589-1110 256-1110
Shreveport - Barksdale AFB	781-1110 781-1110	Amesbury — Army Base	589-1110 256-1110 478-1001
Shreveport Barksdale AFB	781-1110 781-1110 683-1110	Amesbury — Army Base	589-1110 256-1110 478-1001 256-1110
Shreveport Barksdale AFB	781-1110 781-1110 683-1110 476-6210	Amesbury — Army Base	589-1110 256-1110 478-1001 256-1110 478-1001
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111	Amesbury — Army Base	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 256-1110
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210 684-0111	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001 256-1110
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210 684-0111 852-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Froxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001
Shreveport — Barksdale AFB	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210 684-0111	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001 256-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB.	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210 684-0111 852-1110	Amesbury — Army Base Amherst — Westover AFB. Arlington — Ft Devens. Auburndale — Hanscomb AFB. Ayers — Ft Devens. Bedford — Hanscomb AFB. Boston — Ft Devens. Chicopee — Westover AFB. Clinton — Ft Devens. East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB. Groton — Ft Devens. Hamden — Westover AFB. Harvard — Ft Devens. Holyoke — Westover AFB.	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001 256-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB.	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB.  Foxborough — Hanscomb AFB.  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 589-1110 478-1001 256-1110 589-1110 256-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB.	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 684-0111 852-1110 920-1110	Amesbury — Army Base Amherst — Westover AFB. Arlington — Ft Devens. Auburndale — Hanscomb AFB. Ayers — Ft Devens. Bedford — Hanscomb AFB. Boston — Ft Devens. Chicopee — Westover AFB. Clinton — Ft Devens. East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB. Groton — Ft Devens. Hamden — Westover AFB. Harvard — Ft Devens. Holyoke — Westover AFB.	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 478-1001 256-1110 589-1110 256-1110 589-1110 256-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG.	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 684-0111 852-1110 920-1110 920-1110	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens Chicopee — Westover AFB Clinton — Ft Devens East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB Groton — Ft Devens Hamden — Westover AFB Harvard — Ft Devens Holyoke — Westover AFB Leominster — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 478-1001 256-1110 589-1110 256-1110 256-1110 256-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orono — ANG.	781-1110 781-1110 683-1110 476-6210 920-1110 684-0111 920-1110 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB.  Foxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 478-1001 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orono — ANG. Orrington — ANG. Presque Island — Loring AFB.	781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 920-110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB.  Foxborough — Hanscomb AFB.  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 478-1001 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Ludlow — Westover AFB  Ludlow — Westover AFB  Milton — Army Base	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orono — ANG. Orrington — ANG. Presque Island — Loring AFB.	781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 920-110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Ludlow — Westover AFB  Milton — Army Base  Natick — Natick Dev Center	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111	Amesbury — Army Base Amherst — Westover AFB. Arlington — Ft Devens. Auburndale — Hanscomb AFB. Ayers — Ft Devens. Bedford — Hanscomb AFB. Boston — Ft Devens. Chicopee — Westover AFB. Clinton — Ft Devens. East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB. Groton — Ft Devens. Hamden — Westover AFB. Harvard — Ft Devens. Holyoke — Westover AFB. Leominster — Ft Devens Littleton — Ft Devens Long Meadow — Westover AFB. Ludlow — Westover AFB. Ludlow — Westover AFB. Milton — Army Base. Natick — Natick Dev Center. New Bedford — Otis AFB.	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB New Sweden — Loring AFB Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. — Pease AFB.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens Chicopee — Westover AFB Clinton — Ft Devens East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB Groton — Ft Devens Hamden — Westover AFB Harvard — Ft Devens Holyoke — Westover AFB Leominster — Ft Devens Littleton — Ft Devens Littleton — Ft Devens Long Meadow — Westover AFB Ludlow — Westover AFB Milton — Army Base Natick — Natick Dev Center New Bedford — Otis AFB Newton — Hanscomb	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB.  Foxborough — Hanscomb AFB.  Groton — Ft Devens  Hamden — Westover AFB.  Harvard — Ft Devens  Holyoke — Westover AFB.  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Milton — Army Base.  Natick — Natick Dev Center  New Bedford — Otis AFB  Newton — Hanscomb  North Hampton — Westover AFB	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. Pease AFB.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111 852-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB.  Foxborough — Hanscomb AFB.  Groton — Ft Devens  Hamden — Westover AFB.  Harvard — Ft Devens  Holyoke — Westover AFB.  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Milton — Army Base.  Natick — Natick Dev Center  New Bedford — Otis AFB  Newton — Hanscomb  North Hampton — Westover AFB  Quincy — Ft Devens	589-1110 256-1110 478-1001 256-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orono — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. Pease AFB.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 476-6210 920-1110 920-1110 920-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-610 920-1110 684-0111 852-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Mil ton — Army Base  Natick — Natick Dev Center  New Bedford — Otis AFB  Newton — Hanscomb  North Hampton — Westover AFB  Quincy — Ft Devens  Randolph — Army Base	589-1110 256-1110 478-1001 256-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orono — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. — Pease AFB.  MARYLAND  Aberdeen — Proving Grounds. Baltimore — Ft Meade.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 684-0111 852-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 476-6211 852-1110 684-0111 852-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Ludlow — Westover AFB  Milton — Army Base  Natick — Natick Dev Center  New Bedford — Otis AFB  Newton — Hanscomb  North Hampton — Westover AFB  Quincy — Ft Devens  Randolph — Army Base  Roxbury — Army Base  Roxbury — Army Base	589-1110 256-1110 478-1001 256-1110 589-1110
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. Pease AFB.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 684-0111 920-1110 920-1110 920-1110 920-1110 920-1110 920-1110 920-1110 476-6210 476-6210 476-6210 920-1110 852-1110 884-0111 852-1110	Amesbury — Army Base  Amherst — Westover AFB  Arlington — Ft Devens  Auburndale — Hanscomb AFB  Ayers — Ft Devens  Bedford — Hanscomb AFB  Boston — Ft Devens  Chicopee — Westover AFB  Clinton — Ft Devens  East Long Meadow — Westover AFB  Foxborough — Hanscomb AFB  Groton — Ft Devens  Hamden — Westover AFB  Harvard — Ft Devens  Holyoke — Westover AFB  Leominster — Ft Devens  Littleton — Ft Devens  Littleton — Ft Devens  Long Meadow — Westover AFB  Mil ton — Army Base  Natick — Natick Dev Center  New Bedford — Otis AFB  Newton — Hanscomb  North Hampton — Westover AFB  Quincy — Ft Devens  Randolph — Army Base  Roxbury — Army Base  Sommerville — Army Base	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 589-1110 955-8010 955-8010 955-8010 955-8010
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. Pease AFB. Limestone — Loring AFB. New Sweden — Loring AFB. Old Town — ANG. Orington — ANG. Orington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. Pease AFB.  MARYLAND  Aberdeen — Proving Grounds. Baltimore — Ft Meade. Bel Air — Proving Grounds. Beltsville — Amy Switch.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 684-0111 920-1110 920-1110 920-1110 920-1110 920-1110 920-1110 920-1110 476-6210 976-6210 976-6210 976-1110 852-1110 852-1110	Amesbury — Army Base Amherst — Westover AFB. Arlington — Ft Devens. Auburndale — Hanscomb AFB. Ayers — Ft Devens. Bedford — Hanscomb AFB. Boston — Ft Devens. Chicopee — Westover AFB. Clinton — Ft Devens. East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB. Groton — Ft Devens. Hamden — Westover AFB. Harvard — Ft Devens. Holyoke — Westover AFB. Leominster — Ft Devens. Littleton — Ft Devens. Littleton — Ft Devens. Ludlow — Westover AFB. Milton — Army Base. Natick — Natick Dev Center New Bedford — Otis AFB Newton — Hanscomb North Hampton — Westover AFB. Quincy — Ft Devens. Randolph — Army Base. Roxbury — Army Base. Southbend — Army Base.	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB New Sweden — Loring AFB Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. — Pease AFB.  MARYLAND  Aberdeen — Proving Grounds. Baltimore — Ft Meade. Bel Air — Proving Grounds. Beltsville — Amy Switch. Bethesda — Ft Belvoir.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 684-0111 920-1110 920-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111 852-1110 684-0111 852-1110  283-1110 923-1110 923-1110 9351-3350 354-0110	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens Chicopee — Westover AFB Clinton — Ft Devens East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB Groton — Ft Devens Hamden — Westover AFB Harvard — Ft Devens Holyoke — Westover AFB Leominster — Ft Devens Littleton — Ft Devens Littleton — Ft Devens Long Meadow — Westover AFB Ludlow — Westover AFB Milton — Army Base Natick — Natick Dev Center New Bedford — Otis AFB Newton — Hanscomb North Hampton — Westover AFB Quincy — Ft Devens Randolph — Army Base Roxbury — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Springfield — Westover AFB	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Heman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB New Sweden — Loring AFB Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. — Pease AFB.  MARYLAND  Aberdeen — Proving Grounds. Baltimore — Ft Meade. Bel Air — Proving Grounds. Beltsville — Amy Switch. Bethesda — Ft Belvoir. Bowie — Amy Switch.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 476-6210 920-1110 920-1110 852-1110 920-1110 852-1110 852-1110 851-1110 851-3350	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens Chicopee — Westover AFB Clinton — Ft Devens East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB Groton — Ft Devens Hamden — Westover AFB Harvard — Ft Devens Holyoke — Westover AFB Leominster — Ft Devens Littleton — Ft Devens Littleton — Ft Devens Long Meadow — Westover AFB Ludlow — Westover AFB Milton — Army Base. Natick — Natick Dev Center New Bedford — Otis AFB Newton — Hanscomb North Hampton — Westover AFB Quincy — Ft Devens Randolph — Army Base Roxbury — Army Base Southbend — Army Base	589-1110 256-1110 478-1001 256-1110 478-1001 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 555-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010
Shreveport — Barksdale AFB. Tioga — England AFB.  MAINE  Bangor — ANG. Caribou — Loring AFB. Eliot — Nav Shipyard. Ft Fairfield — Loring AFB. Herman — ANG. Holden — ANG. Kittery — Nav Shipyard. — Pease AFB. Limestone — Loring AFB New Sweden — Loring AFB Old Town — ANG. Orrington — ANG. Orrington — ANG. Presque Island — Loring AFB. York — Nav Shipyard. — Pease AFB.  MARYLAND  Aberdeen — Proving Grounds. Baltimore — Ft Meade. Bel Air — Proving Grounds. Beltsville — Amy Switch. Bethesda — Ft Belvoir.	781-1110 781-1110 781-1110 683-1110  476-6210 920-1110 684-0111 920-1110 920-1110 920-1110 920-1110 476-6210 476-6210 476-6210 476-6210 920-1110 684-0111 852-1110 684-0111 852-1110  283-1110 923-1110 923-1110 9351-3350 354-0110	Amesbury — Army Base Amherst — Westover AFB Arlington — Ft Devens Auburndale — Hanscomb AFB Ayers — Ft Devens Bedford — Hanscomb AFB Boston — Ft Devens Chicopee — Westover AFB Clinton — Ft Devens East Long Meadow — Westover AFB. Foxborough — Hanscomb AFB Groton — Ft Devens Hamden — Westover AFB Harvard — Ft Devens Holyoke — Westover AFB Leominster — Ft Devens Littleton — Ft Devens Littleton — Ft Devens Long Meadow — Westover AFB Ludlow — Westover AFB Milton — Army Base Natick — Natick Dev Center New Bedford — Otis AFB Newton — Hanscomb North Hampton — Westover AFB Quincy — Ft Devens Randolph — Army Base Roxbury — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Southbend — Army Base Springfield — Westover AFB	589-1110 256-1110 478-1001 256-1110 589-1110 589-1110 589-1110 589-1110 256-1110 589-1110 256-1110 589-1110 256-1110 589-1110 589-1110 589-1110 589-1110 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010 955-8010

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Waltham - Army Base			
	955-8010	La Vista – Offutt AFB	271-1110
Wareham - Otis AFB	557-1110	Omaha — Offutt AFB	271-1110
Wayland - Natick Dev Center	955-1001	Ralston - Offutt AFB	271-1110
Wellesley - Natick Dev Center		naison onate Ar Bittitititititititititi	211-1110
	955-1001		
Westfield – Westover AFB	589-1110		
West Lynn Ft Devens	256-1110	NEYADA	
Weymouth - Army Base	955-8010		
•		Boulder City Nellis AFB	682-1800
		Fallon – Nav Air Station	830-2110
MICHIGAN		Henderson – Nellis AFB	
MICHIGAN			682-1800
		Las Vegas — Nellis AFB	682-1800
Calumet - Sawyer AFB	4721110		
East Tawas - Wortsmith AFB	623-1110		
Grand Rapids - DCASD	741-8011	NEW HAMPSHIRE	
Gwinn – Sawyer AFB	4721110		
•		Dadford Mil Cat Tal. Ciation	003 1840
Ishpeming – Sawyer AFB	472-1110	Bedford – NH Sat Trk Station	881-1550
Marquette — Sawyer AFB	472-1110	Killery – Pease AFB	852-1110
Negaunee – Sawyer AFB	4721110	Manchester - NH Sat Trk Station	881-1550
Oscoda – Wortsmith AFB	623-1110	Mermarrick - NH Sat Trk Station	881-1550
Skandia - Sawyer AFB	472-1110	New Castle - Nav Shipyard	684-0111
Tawas City – Wortsmith AFB			
rawas City – wortsmith AFB	623-1110	Portsmouth — Nav Shipyard	684-0111
		Pease AFB	852-1110
		Rye Beach - Nav Shipyard	6840111
MINNESOTA		Pease AFB	852-1110
,		Suncook - NH Sat Trk Station	881-1550
Cloquet - Duluth AFB	925 0011		
	825-0011	York - Pease AFB	852-1110
Duluth – Duluth AFB	8250011		
Minneapolis – ANG	825-5110		
Proctor - Duluth AFB	825-0011	NEW JERSEY	
Scanlon - Duluth AFB	825-0011		
St Paul – ANG		All Cities – Ft Dix	0.44 1.220
	825-5110	All Cities - Ft Dix	9441220
Superior Duluth AFB	8250011		
		HEW MEXICO	
MISSISSIPPI			
		Alamagorda — Holloman AFB	867-1110
Biloxi – Keesler AFB	868-1110	Claudcroft - Holloman AFB	867-1110
Caledonia - Columbus AFB	742-1110	Clovis - Cannon AFB	681-1110
Columbus — Columbus AFB	742-1110	Farewell - Cannon AFB	681-1110
Gulfport - Keesler AFB	868-1110	La Cruces — Whitesands Msf Range	258-2211
Hansboro - Keesler AFB	868-1110	Mesilla – Whitesands Msl Range	258-2211
Lyman - Keesler AFB	868-1110	Organ — Whitesands Ms! Range	258-2211
		•	
Ocean Springs – Keesler AFB	868-1110	Portales – Cannon AFB	681-1110
		Texico - Cannon AFB	681-1110
		Tularosa — Holloman AFB	681-1110 867-1110
MISSOURI			
MISSOURI			
	638_1110	Tularosa — Holloman AFB	
Bellview – Scott AFB	638-1110		
Bellview – Scott AFB	638-1110	Tularosa – Holloman AFB	867-1110
Bellview – Scott AFBFreeburg – Scott AFBGrandview – Richards–Gebaur AFB	638-1110 465-1110	Tularosa - Holloman AFB  NEW YORK  Amber - Hancock Field	867-1110 587-9110
Bellview – Scott AFB	638-1110	Tularosa – Holloman AFB	867-1110
Bellview – Scott AFB Freeburg – Scott AFB Grandview – Richards–Gebaur AFB Independence – Richards–Gebaur AFB	638-1110 465-1110 465-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field  Amityville — DCASD	587-9110 994-9000
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field  Amityville — DCASD  Baldwinsville — Hancock Field	587-9110 994-9000 587-9110
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110	Tularosa — Holloman AFB	587-9110 994-9000 587-9110 994-9000
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110	Tularosa — Holloman AFB	587-9110 994-9000 587-9110 994-9000 587-9110
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110	Tularosa — Holloman AFB	587-9110 994-9000 587-9110 994-9000 587-9110
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field Amityville — DCASD Baldwinsville — Hancock Field Bohemia — DCASD Bridgeport — Hancock Field Bronx — DCASD Brooklyn — Ft Hamilton Nav Dist.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB  NEW YORK  Amber — Hancock Field Amityville — DCASD Baldwinsville — Hancock Field Bohemia — DCASD Bridgeport — Hancock Field Bronx — DCASD Brooklyn — Ft Hamilton Nav Dist Buffalo — Niagra Mun Airport	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field. Amityville — DCASD. Baldwinsville — Hancock Field. Bohemia — DCASD. Bridgeport — Hancock Field. Bronx — DCASD. Brooklyn — Ft Hamilton. Nav Dist. Buffalo — Niagra Mun Airport. Farmingdale — DCASD.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110
Bellview — Scott AFB. Freeburg — Scott AFB. Grandview — Richards—Gebaur AFB. Independence — Richards—Gebaur AFB. Kansas City — Whiteman AFB. Knobnoster — Whiteman AFB. Maryland Heights — Army Depot. Roberts — Ft Leonard Wood. Sedalia — Whiteman AFB. State of Missouri — Chanute AFB. Warrenburg — Whiteman AFB. Warrenburg — Whiteman AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000
Bellview — Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110
Bellview — Scott AFB. Freeburg — Scott AFB. Grandview — Richards—Gebaur AFB. Independence — Richards—Gebaur AFB. Kansas City — Whiteman AFB. Knobnoster — Whiteman AFB. Maryland Heights — Army Depot. Roberts — Ft Leonard Wood. Sedalia — Whiteman AFB. State of Missouri — Chanute AFB. Warrenburg — Whiteman AFB. Warrenburg — Whiteman AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 587-9110 994-9000
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110
Bellview — Scott AFB. Freeburg — Scott AFB. Grandview — Richards—Gebaur AFB. Independence — Richards—Gebaur AFB. Kansas City — Whiteman AFB. Knobnoster — Whiteman AFB. Maryland Heights — Army Depot. Roberts — Ft Leonard Wood. Sedalia — Whiteman AFB. State of Missouri — Chanute AFB. Warrenburg — Whiteman AFB. Warrenburg — Whiteman AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field. Amityville — DCASD. Baldwinsville — Hancock Field. Bohemia — DCASD. Bridgeport — Hancock Field. Bronx — DCASD. Brooklyn — Ft Hamilton. Nav Dist. Buffalo — Niagra Mun Airport. Famingdale — DCASD. Fayette — Seneca Depot. Fayetteville — Hancock Field. Garden City — DCASD. Geneva — Seneca Depot. Hempstead — DCASD.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110 994-9000
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field. Amityville — DCASD. Baldwinsville — Hancock Field. Bohemia — DCASD. Bridgeport — Hancock Field. Bronx — DCASD. Brooklyn — Ft Hamilton. Nav Dist. Buffalo — Niagra Mun Airport. Famingdale — DCASD. Fayette — Seneca Depot. Fayetteville — Hancock Field. Garden City — DCASD. Geneva — Seneca Depot. Hempstead — DCASD. Highland Falls — West Point.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 587-9110 994-9000 688-1110
Bellview - Scott AFB. Freeburg - Scott AFB. Grandview - Richards-Gebaur AFB. Independence - Richards-Gebaur AFB. Knobnoster - Whiteman AFB. Maryland Heights - Army Depot. Roberts - Ft Leonard Wood. Sedalia - Whiteman AFB. State of Missouri - Chanute AFB. Warrenburg - Whiteman AFB. Waynesville - Ft Leonard Wood.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field. Amityville — DCASD. Baldwinsville — Hancock Field. Bohemia — DCASD. Bridgeport — Hancock Field. Bronx — DCASD. Brooklyn — Ft Hamilton. Nav Dist. Buffalo — Niagra Mun Airport. Farmingdale — DCASD. Fayette — Seneca Depot. Fayetteville — Hancock Field. Garden City — DCASD. Geneva — Seneca Depot. Hempstead — DCASD. Highland Falls — West Point. Huntington — DCASD.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110 994-9000
Bellview - Scott AFB	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field. Amityville — DCASD. Baldwinsville — Hancock Field. Bohemia — DCASD. Bridgeport — Hancock Field. Bronx — DCASD. Brooklyn — Ft Hamilton. Nav Dist. Buffalo — Niagra Mun Airport. Famingdale — DCASD. Fayette — Seneca Depot. Fayetteville — Hancock Field. Garden City — DCASD. Geneva — Seneca Depot. Hempstead — DCASD. Highland Falls — West Point.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 587-9110 994-9000 688-1110
Bellview - Scott AFB. Freeburg - Scott AFB. Grandview - Richards-Gebaur AFB. Independence - Richards-Gebaur AFB. Knobnoster - Whiteman AFB. Maryland Heights - Army Depot. Roberts - Ft Leonard Wood. Sedalia - Whiteman AFB. State of Missouri - Chanute AFB. Warrenburg - Whiteman AFB. Waynesville - Ft Leonard Wood.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	Tularosa — Holloman AFB.  NEW YORK  Amber — Hancock Field	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110 994-9000 688-1110 994-9000 456-2011
Bellview - Scott AFB. Freeburg - Scott AFB. Grandview - Richards-Gebaur AFB. Independence - Richards-Gebaur AFB. Kansas City - Whiteman AFB. Knobnoster - Whiteman AFB. Maryland Heights - Army Depot. Roberts - Ft Leonard Wood. Sedalia - Whiteman AFB. State of Missouri - Chanute AFB. Warrenburg - Whiteman AFB. Waynesville - Ft Leonard Wood.  MONTANA Great Falls - Malmstrom AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	NEW YORK  Amber - Hancock Field Amityville - DCASD. Baldwinsville - Hancock Field. Bohemia - DCASD. Bridgeport - Hancock Field. Bronx - DCASD. Brooklyn - Ft Hamilton. Nav Dist. Buffalo - Niagra Mun Airport. Famingdale - DCASD. Fayette - Seneca Depot. Fayetteville - Hancock Field. Garden City - DCASD. Geneva - Seneca Depot. Hempstead - DCASD. Highland Falls - West Point. Huntington - DCASD. Jamaica - Nav Station. Jordan - Hancock Field.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110 994-9000 688-1110 994-9000 456-2011 587-9110
Bellview - Scott AFB. Freeburg - Scott AFB. Grandview - Richards-Gebaur AFB. Independence - Richards-Gebaur AFB. Kansas City - Whiteman AFB. Knobnoster - Whiteman AFB. Maryland Heights - Army Depot. Roberts - Ft Leonard Wood. Sedalia - Whiteman AFB. State of Missouri - Chanute AFB. Warrenburg - Whiteman AFB. Waynesville - Ft Leonard Wood.  MONTANA  Great Falls - Malmstrom AFB.  NEBRASKA  Bellview - Offutt AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 975-1110 975-1110 975-1110 975-1110 975-1110	NEW YORK  Amber - Hancock Field Amityville - DCASD. Baldwinsville - Hancock Field. Bohemia - DCASD. Bridgeport - Hancock Field. Bronx - DCASD. Brooklyn - Ft Hamilton. Nav Dist. Buffalo - Niagra Mun Airport. Farmingdale - DCASD. Fayette - Seneca Depot. Fayetteville - Hancock Field. Garden City - DCASD. Geneva - Seneca Depot. Hempstead - DCASD. Highland Falls - West Point. Huntington - DCASD. Jamaica - Nav Station. Jordan - Hancock Field. Liverpool - Hancock Field.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 688-1110 994-9000 489-5110 994-9000 489-5110 994-9110 587-9110
Bellview - Scott AFB. Freeburg - Scott AFB. Grandview - Richards-Gebaur AFB. Independence - Richards-Gebaur AFB. Kansas City - Whiteman AFB. Knobnoster - Whiteman AFB. Maryland Heights - Army Depot. Roberts - Ft Leonard Wood. Sedalia - Whiteman AFB. State of Missouri - Chanute AFB. Warrenburg - Whiteman AFB. Waynesville - Ft Leonard Wood.  MONTANA Great Falls - Malmstrom AFB.	638-1110 465-1110 465-1110 975-1110 975-1110 693-1110 581-0110 975-1110 862-1110 975-1110 581-0110	NEW YORK  Amber - Hancock Field Amityville - DCASD. Baldwinsville - Hancock Field. Bohemia - DCASD. Bridgeport - Hancock Field. Bronx - DCASD. Brooklyn - Ft Hamilton. Nav Dist. Buffalo - Niagra Mun Airport. Famingdale - DCASD. Fayette - Seneca Depot. Fayetteville - Hancock Field. Garden City - DCASD. Geneva - Seneca Depot. Hempstead - DCASD. Highland Falls - West Point. Huntington - DCASD. Jamaica - Nav Station. Jordan - Hancock Field.	587-9110 994-9000 587-9110 994-9000 587-9110 994-9000 232-1110 456-2011 489-3011 994-9000 489-5110 994-9000 489-5110 994-9000 688-1110 994-9000 456-2011 587-9110

Manhattan – DCASD	994-9000	ОНЮ	
Ft Hamilton	232-1110		
Manlius - Hancock Field	587-9110	Austintown - Youngstown Mun Airport	346-9211
Morrisonville - Plattsburg AFB	689-1110	Bellbrook - Wright Patterson AFB	782-1110
Newburgh — West Point	688-1110	Conneaut - Youngstown Mun Airport	346-9211
New Woodstock - Hancock Field	587-9110	Campbell - Youngstown Mun Airport	346-9211
New York City - Ft Hamilton	232-1110	Canfield — Youngstown Mun Airport	346-9211
Niagra Falls — Niagra Mun Airport	489-3011	Chapman — Youngstown Mun Airport	346-9211
North Bellmore – DCASD	994-9000	Columbus - Rickenbacker AFB	950-1110
Olean - Niagra Mun Airport	489-3011	Dayton — Wright Patterson AFB	782-1110
Ovid — Seneca Depot	489-5110	Ellsworth - Youngstown Mun Airport	346-9211
Peru - Plattsburg AFB	689-1110	Fairbom - Wright Patterson AFB	782-1110
Plattsburg - Plattsburg AFB	689-1110	Girard — Youngstown Mun Airport	346-9211
Poughkeepsie - West Point	688-1110	Grandville - Newark Air Force Station	580-1110
Queens – DCASD	994–9000	Greenfield - Youngstown Mun Airport	346-9211
Richmond — DCASD	994–9000	Holland - Youngstown Mun Airport	346-9211
Rochester – Seneca Depot	489-5110	Hubbard - Youngstown Mun Airport	346-9211
Rome – Griffiss AFB	587-1110	Leavittsburgh - Youngstown Mun Arpt	346-9211
Romulus - Seneca Depot	489-5110	Lordstown - Youngstown Mun Airport	346-9211
Skaneatelas – Hancock Field	587-9110	Lowellville - Youngstown Mun Airport	346-9211
St Albans – Nav Station	456-2011	Mansfield – ANG	889-1520
State of New York - DCASD	994-9000	McDonald - Youngstown Mun Airport	346-9211
Syracuse – Hancock Field	587-9110	New Springfield - Youngstown Mun Airport	346-9211
Tarrytown – Ft Hamilton	232-1110	North Jackson – Youngstown Mun Airport	346-9211
Tonawanda – Niagra Mun Airport	489-3011	North Lima - Youngstown Mun Airport	346-9211
Utica – Griffiss AFB	587-1110	North Middleton - Youngstown Mun Airport	346-9211
Waterloo – Seneca Depot	489-5110	Poland – Youngstown Mun Airport	346-9211
Watertown – Ft Drum	341-3011	Springfield – ANG	889-1520
West Point – West Point	688-1110	Struthers – Youngstown Mun Airport	346-9211
		Troutwood - Wright Patterson AFB Warren - Youngstown Mun Airport	782–1110
NORTH CAROLINA		Youngstown — Youngstown Mun Airport	346-9211
NUKTH CARULINA		Toungstown - Toungstown Mult Allport	346-9211
Carolina Beach - MTMTS	935-1420		
Cherry Point - Marine Corps Air Station	582~1110	OKLAHOMA	
Edenton - Coast Guard	723-3390		
Cacimon - const dual a	122~2270		
Elizabeth City — Coast Guard	723-3390	Ada — Kelly AFB	945-1110
Elizabeth City - Coast Guard		Altus – Altus AFB	945-1110 866-1110
	723-3390	Altus – Altus AFB	
Elizabeth City — Coast Guard Faison — Seymour Johnson AFB Fayetteville — Pope AFB Ft Bragg	723–3390 488–1110	Altus – Altus AFB	866-1110
Elizabeth City – Coast Guard Faison – Seymour Johnson AFB Fayetteville – Pope AFB	723-3390 488-1110 486-1110	Altus – Altus AFBArkoma – Ft ChaffeeBethany – Tinker AFBBreckinridge – Vance AFB	8661110 9622111
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311	Altus – Altus AFB	8661110 9622111 7351110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110	Altus – Altus AFB. Arkoma – Ft Chaffee. Bethany – Tinker AFB. Breckinridge – Vance AFB. Briton – Tinker AFB. Carrier – Vance AFB.	866-1110 962-2111 735-1110 962-7110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110	Altus — Altus AFB	866-1110 962-2111 735-1110 962-7110 735-1110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110 488-1110 582-1110 484-1110	Altus — Altus AFB.  Arkoma — Ft Chaffee.  Bethany — Tinker AFB.  Breckinridge — Vance AFB.  Briton — Tinker AFB.  Carrier — Vance AFB.  Del City — AFS.  Edmond — Tinker AFB.	866-1110 962-2111 735-1110 962-7110 735-1110 962-7110 735-9011 735-1110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110 488-1110 582-1110 484-1110 935-1420	Altus — Altus AFB.  Arkoma — Ft Chaffee.  Bethany — Tinker AFB.  Breckinridge — Vance AFB.  Briton — Tinker AFB.  Carrier — Vance AFB.  Del City — AFS.  Edmond — Tinker AFB.  Enid — Vance AFB.	866-1110 962-2111 735-1110 962-7110 735-1110 962-7110 735-9011 735-1110 962-7110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110 488-1110 582-1110 484-1110 935-1420 582-1110	Altus — Altus AFB.  Arkoma — Ft Chaffee  Bethany — Tinker AFB.  Breckinridge — Vance AFB.  Briton — Tinker AFB.  Carrier — Vance AFB.  Del City — AFS.  Edmond — Tinker AFB.  Eniid — Vance AFB.  Fairmount — Vance AFB.	866-1110 962-2111 735-1110 962-7110 735-1110 962-7110 735-9011 735-1110 962-7110
Elizabeth City — Coast Guard	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110 488-1110 582-1110 484-1110 935-1420 582-1110 488-1110	Altus — Altus AFB.  Arkoma — Ft Chaffee.  Bethany — Tinker AFB.  Breckinridge — Vance AFB.  Briton — Tinker AFB.  Carrier — Vance AFB.  Del City — AFS.  Edmond — Tinker AFB.  Enid — Vance AFB.  Fairmount — Vance AFB.  Headrick — Altus AFB.	866-1110 962-2111 735-1110 962-7110 735-1110 962-7110 735-9111 735-1110 962-7110 962-7110 866-1110
Elizabeth City — Coast Guard. Faison — Seymour Johnson AFB. Fayetteville — Pope AFB. Ft Bragg. Fremont — Seymour Johnson AFB. Goldsboro — Seymour Johnson AFB. Grantham — Seymour Johnson AFB. Havelock — Marine Corps Air Station. Jacksonville — Camp Lejeune. Long Beach — MTMTS. Morehead City — Marine Corps Air Sta. Moss Hill — Seymour Johnson AFB. Mount Olive — Seymour Johnson AFB.	723-3390 488-1110 486-1110 236-0311 488-1110 488-1110 488-1110 582-1110 484-1110 935-1420 582-1110 488-1110	Altus — Altus AFB.  Arkoma — Ft Chaffee.  Bethany — Tinker AFB.  Breckinridge — Vance AFB.  Briton — Tinker AFB.  Carrier — Vance AFB.  Del City — AFS.  Edmond — Tinker AFB.  Eniid — Vance AFB.  Fairmount — Vance AFB.  Headrick — Altus AFB.  Hillsdale — Vance AFB.	866-1110 962-2111 735-1110 962-7110 735-1110 962-7110 735-9011 735-9011 735-1110 962-7110 962-7110 866-1110 962-7110
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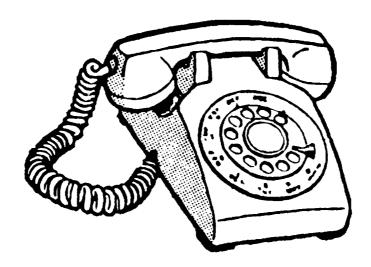
Burlington - Portland Air Base	891-1701	SOUTH DAKOTA	
Coos Bay - Nav Fac	355-2011		
Damascus - Portland Air Base	891-1701	Rapid City - Ellsworth AFB	747-1110
	891-1701		
Eagle Creek - Portland Air Base		Sioux Falls — ANG	939-7210
Estacada - Portland Air Base	891–1701		
Gresham - Portland Air Base	891–1701		
Hillsboro - Portland Air Base	891-1701	TENNESSEE	
Keno – Kingsley AFB	896-1670	12/1/20022	
			000 1800
Klamath Falls - Kingsley AFB	896-1670	All Cities – Amold AFB	88 2-1520
Lake Oswego - Portland Air Base	891–1701		
North Bend – Kingsley AFB	896—1670		
Nav Fac	355-2011	TEXAS	
	891-1701	I EVAS	
Oregon City - Portland Air Base	•		
Portland - Portland Air Base	891-1701	Abilene – Dyess AFB	461-1110
Sandy - Portland Air Base	891–1701	Archer City - Sheppard AFB	736-1061
Tigord - Portland Air Base	891~1701	Austin - Bergstrom AFB	685-1110
Vancouver - Portland Air Base	891-1701		
Varicouver - Portialia All base	071-1/01	Burkburnett - Sheppard AFB	736-1001
		Camp Mabry — Bergstrom AFB	685-1110
		Charlie - Sheppard AFB	736-1001
PENNSYL VAN! A		Copperas Cove - Ft Hood	737-2131
		El Paso – Ft Bliss	978-0831
Access Tableson Densis	247 0110		
Annville - Tobyhanna Depot	247-9110	Euless – Carswell AFB	739-1110
Blue Ridge Summit - Ft Ritchie	988-1300	Fort Killeen – Ft Hood	737-2131
Boiling Springs - Carlisle Brks	242-4141	Fort Worth - Carswell AFB	739-1110
Carlisle - Carlisle Brks	242-4141	Hamby — Dyess AFB	461-1110
Fairfield - Ft Ritchie	988-1300		
		Harker Heights Ft Hood	737-2131
Gettysburg - Ft Ritchie	988~1300	Hawley – Dyess AFB	461-1110
Greentown - Tobyhanna Depot	247-9110	Henrietta - Sheppard AFB	736-1001
Harrisburg - Ft Ritchie	9881300	Holiday - Sheppard AFB	736-1001
Nav Ship Ctl Ctr	430-4110	Holly - Dyess AFB	461-1110
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Kulpmont – Tobyhanna Depot	247-9110	Hot Springs — Kelly AFB	945-1110
Lewisberry — Nav Ship Clt Ctr	430-4110	Hurlwood – Reese AFB	838-1110
Mechanicsburg - Nav Ship Clt Ctr	430-4110	Iowa Park - Sheppard AFB	736-1001
Mt Holly Springs - Carlisle Brks	430-4110	Killeen – Ft Hood	737-2131
Mt Home - Tobyhanna Depot	247-9110		
· · · · · · · · · · · · · · · · · · ·		Lubbock - Reese AFB	838-1110
Newville - Carlisle Brks	242-4141	Potosi – Dyess AFB	461-1110
Scranton — Tobyhanna Depot	247-9110	Red Water - Red River Army Depot	829-4110
State of Penn - Tobyhanna Depot	247-9110	San Angelo - Goodfellow AFB	477-2011
Stroudsburg - Tobyhanna Depot	247-9110		
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Tobyhanna - Tobyhanna Depot	247-9110	Lackland AFB	473–1110
Waynesboro — Ft Ritchie	988-1300	Brooks AFB	240-1110
Wilkes Barre - Tobyhanna Depot	247-9110	Randolph AFB	487-1110
,		Seabrook - Ellington AFB	954-2110
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		Texarkana - Red River Army Depot	487-1110
SOUTH CAROLINA		Universal City – Randolph AFB	4871110
		Wichita Falls - Sheppard AFB	736-1001
Beaufort - Parris Island	832-1110		
Charleston - Charleston AFB	583-0111		
	•		
Nav Dist	794-2000	UTAH	
Clinton - Shaw AFB	965-1110		
Columbia - Ft Jackson	734-1110	Bountiful - Hill AFB	458-1110
Conway - Myrtle Beach AFB	748-1110	Clearfield - Hill AFB	458-1110
Eastover - Ft Jackson	734-1110	Kaysville – Hill AFB	
		•	458-1110
Gaffney - Shaw AFB	965–1110	Layton — Hill AFB	458-1110
Isle of Palms – Charleston AFB	5830111	Ogden — Hill AFB	458-1110
Lexington - Ft Jackson	734-1110	Salt Lake City - Hill AFB	458-1110
Mayesville - Shaw AFB	<del>96</del> 5-1110	Amy Depot	790-1110
Mt Pleasant – Charleston AFB	583-0111	Tooele – Army Depot	790-1110
		Toole - Anny Depot	170-1110
Myrtle Beach - Myrtle Beach AFB	748-1110		
Oakdale – Shaw AFB	965-1110		
Parris Island - Marine Base	832-1110	VIRGINIA	
Pinewood - Shaw AFB	965-1110	•	
Pocalia – Shaw AFB	965-1110	Alexandria – Ft Belvoir	25.8 0110
			354-0110
Spartanburg – Shaw AFB	9651110	Arlington — Ft Belvoir	354-0110
Statesburg — Shaw AFB	965-1110	Blacksburg - Radford Ammo Plant	931-1110
Summerville - Charleston AFB	583-0111	Bowling Green - Ft Hill	934-8110
Sumter - Shaw AFB	965-1110	Chesapeake - Ft Story	927-9210
Waterboro – Shaw AFB		· · · · · · · · · · · · · · · · · · ·	
waterbore - Shaw AFD	965–1110	Chester - Ft Lee	687-0111
		Chesterfield — Def Sup Ctr	695–1110
		Christiansburg - Radford Ammo Plant	931-1110

Dublin - Radford Ammo Plant	931-1110	WASHINGTON	
Fairway - Ft Belvoir	354-0110		
Falls Church - Ft Belvoir	354-0110	Clearlake - Fairchild AFB	352-1110
Hampton - Ft Monroe	6801110	Coupeville — Whidbey Island NAS	820-0111
Ft Eustis	927-1110	Oak Harbour - Whidbey Island NAS	820-0111
Langley AFB	432-1110	Olympia Ft Lewis	357-1110
Henrico County - Def Sup Ctr	695-1110	Puyallup - Ft Lewis	357-1110
Hopewell - Ft Lee	687-0111	Spokane - Fairchild AFB	352-1110
Ladysmith - Ft Hill	934-8110	Tacoma – Ft Lewis	357-1110
McLean - Ft Belvoir	354-0110	McChord AFB	976-1110
Milford – Ft Hill	934-8110	Yakima — Ft Lewis	357-1110
Newport News - Ft Eustis	927-1110		
Ft Monroe	680~1110		
Langley AFB	432-1110	WASHINGTON D. C.	
Norfolk - Ft Story	927-9210		
Navy Base	690-0111	Army Switch	851-3350
Petersburg – Ft Lee	687-0111	Ft Belvoir	354-0110
Port Royal — Ft Hill	9348110	Ft Ritchie	988-1300
Portsmouth - Ft Story	927-9210		
Radford - Radford Army Plant	931-1110		
Richmond — Def Sup Ctr	695-1110	WISCONSIN	
Sparta – Ft Hill	934-8110		
Vienna – Ft Belvoir	354-0110	All Cities - Ft McCoy	280-1110
Virginia Beach - Ft Story	927-9210		
Warrenton - Vint Hill Farms	249-0111		
Williamsburg - Ft Eustis	927-1110	WYOMING	
York County - Ft Eustis	927-1110		
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to submit DIRECTORY changes as they occur!



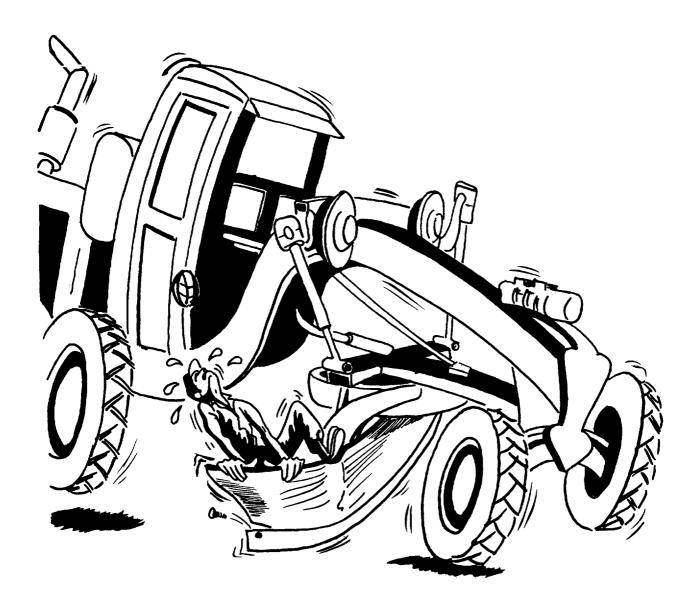
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To reach numbers in any of these areas, you dial 86—the area code—and the seven digit number:		Michigan	226-6000
202 212		Minnesota	725-4242
213 215		Mississippi	490-4211
216 303		Missouri	758-7212
312		Montana	585-5011
313 316		Nebraska	864-1221
319 404		Nevada	598-6011
408 413		New Hampshire	834-7011
415 515		New Jersey	341-3000
516 601		New Mexico	474-5511
617 712		New York	
713		Within area code 518	562-4411
801 904		Within area code 716 Within area codes 315, 607, and 914	437-4411 264-3311
912 913		North Carolina	699-5111
		North Dakota	783-5771
All offier areas can be reached by dialing		Ohio	
the below listed numbers,		Within Area Codes 419, 513, & 614	293-3131
Alabama	229 – 1000	Okłahoma	736-4011
Alaska		0	(80 (88
For dialing instructions Dial 1111		Oregon	423-4111
Ari zona	261-3900	Pennsylvania Within area codes 412, and 814	722-3311
Arkansas	740-5011	Within area code 717	597-3311
California		Puerto Rico	
Within area codes 714 and 805	798-2000 556-9000	For dialing instructions Dial 1111	
Colorado	327-0111	Rhode Island	838-1000
		South Carolina	677 – 50 1 1
Connecticut	244-2000	South Dakota	782-7000
Deleware	487-6011 •	Tennessee	222-3011
Florida	946-2011	Texas	
Hawaii For dialing instructions Dial 1111		Within Area Codes 214, 512, 806, 817, & 915	729-4011
		Verniont	832-6501
Idaho	554-1111	Virginia	937-6011
Illinois Within area codes 217, 309,618,815	353-4401	Washington	
Indiana	331-7000	Within area code 206	399-0111 439-0111
Kentucky	352-5011	West Virginia	924-1511
Louisianna	682-6211	Wisconsin	362-1012
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YOU MAY NOT BE ABLE TO AFTERWARDS

# ALPHABETICAL LISTING

Activity	Bldg	Phone	Activity	Pidg	Phone
A			AREA AUDITOR		
,			Area Auditor	1116	5565 3865
ACCOUNTING DIVISION			Assistant Area Auditor	1116	5565
Administrative Section			Audit Chief	1116	5565
Accounting Officer	1005	2373		1110	,,,,,
Asst Accounting Officer	1005	2373	ATHLETIC CHIEF	751	312
Secretary	1005	2373			
•	*****	23.7	AUDIOVISUAL TRAINING SUPPORT -See Page 33		
Control Section					
Accounting Chief	1005	5811	<b>D</b>		
Fiscal Accounting Section			В		
Fiscal Supervisor	1005	58 18			
Allotment Unit	1005	2043	BACHELOR HOUSING OFFICE		
Expense Operating Budget Unit			Director	26 17	2521
	1005	3241	Billeting & Reservations	2617	1856
Reimbursable Unit	1005	1647	BAQ Information		
	****			2617	1385
Cost Account Section	1005	3601	Duty Manager	2617	1856
Supervisor	1005	2724	Supply Office	2617	1385
			NCOIC	2617	1856
Payroll Section-Civilian	1005	1935			
Supervisor	1005	5498	BACHELOR OFFICERS QUARTERS		
			Camp Geiger Area - Office	TC 1067	0435
Plant Account Section	1005	3967	Camp Johnson Area		
Supervisor	1005	1453	Office	M 231	6253
			Lobby	M 231	6179
ADMINISTRATIVE CONTROL UNIT	1101	2708	Labby	M 232	622
		3037	Lobby	M 233	6184
		*****	Courthouse Bay Area		-
AIRLINE TICKET OFFICE			Office	BB 45	7384
Hadnot Point	233	2102	Lobby (First Floor)	BB 45	
hadiot rollita	200	2192	Lobby (Second Floor)	BB 45	7378 7384
Dhama Camaian 0020 1100 1200 1700		5889		0:5 45	1 201
Phone Service-0830-1100 1300-1700			Paradise Point Area	2122	
Hours 0830-1700 Mon thru Fri			Lobby	2602	1314
Closed Sat, Sun & Holidays			Lobby	2603	1339
Baggage Room	233	5454	Lobby	2604	133
Montford Point	M 419	0711	Lobby	2605	1392
			Lobby	2607	1346
AIR DELIVERY PLATOON - 2D FSSG	106	37 26	Lobby	2609	1394
			Lobby	2611	2079
AIR STATION (H), NEW RIVER — See Page 67			Lobby	2613	1771
			Lobby	2617	1301
AMATEUR RADIO STATION (W4LEV)	PT 5	51 16	Rifle Range Area — Office	RR 9	7138
AND THE PROPERTY OF THE PROPER	113	3110		,	,
AMBULANCE (EMERGENCY)			BACHELOR STAFF NCO QUARTERS		
Hadnot Point	15	3211			
Camp Geiger	G 770	0136	Camp Johnson Area		
MCAS(H)	302	455-6666	Office	M 128	6265
	202	133 0000	Lobby	M 128	6292
AMERICAN RED CROSS			Lobby	M 130	6276
Main Office	41	2172	Lobby	M 234	6227
Main Office	41	2173	Lobby		
		2182		M 235	6223
		2720	Lobby	M 236	6273
		5159	Hadnot Point Area	IID 57	30=-
After Duty Hours, Holidays, Sat & Sun		347 -5191	Office	HP 57	1876
			Lobby (Second Floor)	58	376
AMMUNITION DUMP	SH 7	2114	Lobby (Second Floor)	67	3434
Animo Branch - AC/S Sup Svcs	SH 7	3812	Hospital Point Area		
Ammunition Storage	SH 7	2114	Lobby	H 32	4443
		'	Lobby	H-31	444]
ANIMAL SHELTER	PT 33	2695	Rifle Range Area - Office	RR 9	713
			BARALAR INSPIRA	****	_
			BAGGAGE INCOMING (Personal Effects)	1011	3671

Activity	Bldg	Phone
BAND OFFICER - Division	<b>323</b> 323	<b>5912</b> 1814
BANK First Citizens Bank & Trust Company Comp Lejeune	37	5877 5546 5556 353-1140 353-3113 353-3114
Hours - 0900 - 1300 1430 - 1700 Mon thru Thu 0900 - 1300 1430 - 1800 Fri		
0830 - 1300 1430 - 1800 Paydays Only Camp Geiger	TC 900	0500 455-5447 455-5448
Hours - 0900 - 1300 1500 - 1700 Mon thru  Comp Johnson	Fri M 602	0597
Center Hospital	H-1	5969 353–4125
Hours 0900 – 1300 1500 – 1700 Mon thru Fri Courthouse Bay		7317
Torawa Terrace	Thur	353-3292
Marine Corps Exchange	84	2296 353-9930
Hours- 1000 - 1800 Mon thru Sat		
BEACH AREA - Onslow - See Page 27		
ROAT HOUSE  Courthouse Bay	BB 46 31	7386 1956
BOWLING CENTER Control Counter. Manager. Snack Bar.	89 89 89	5121 5485 5731
BOY SCOUT COORDINATOR	2627	2276
BRIDGE Onslow		7376
BUDGET DIVISION Compt Dept	1	3022
BUSSES Marine Corps Base Motor Trans	1407	3243
BUS STATION Commercial Bus Information Union Bus Station	235	5541
Hours 0600 – 2100 Mon thru Sun Military Bus Station Manager	235 235 235	3632 3632 2070
<b>c</b>		
CAB SERVICE Commercial	<b>235</b> 1407	3 <b>674</b> 1639

Activity	Bldg	Phone
CALIBRATION SECTION	905	3370
CAMPING TRAILERS Special Services	1113	1368
CAREER PLANNING		
Career Planner – MCB	HP-57	5400
		1381
Career Planner – Hqs Bn MCB Career Planner – Div	50	1556
Career Flammer - DIV	HP 301	2116 3769
		3769 5706
Career Planner – 2d FSSG	61	1334
	U1	1,004
CARPENTER SHOP	1202	<b>1689</b> 3561
CASH SALES AC/S Supply Services MCB		
Self Service Clothing Store	1212	2802
Clothing Store Camp Geiger		0459
CENTER HOSPITAL - NRMC - See Page 81		
CENTRAL HEATING PLANT	1700	3276
TRI-COMMAND CHAPLAINS		
Base Chaptain	37	2113
	2	3210
Division Chaplain	37	59 28
2d FSSG Chaplain	37	5738 5711
20 F330 Chaptain	3/	1341
Assistant Base Chaplain	37	5633
Catholic Chaplain	37	3210
Jewish Chaplain	67	5342
Protestant Chaplain	37	2113
H&S Bn Chaplain	60	2630
Chaplain Camp Geiger	TC 601	0794
Chaplain Correctional Facilities	1041	1486
Chaplain Courthouse Bay	BB 16	7304
Chaptain Camp Johnson	M 116	0507
Center Hospital — Catholic	Н <u>1</u> Н 1	4365
Center Hospital - Protestant	3 <b>7</b>	4391 <b>2113</b>
Chapels	3/	2113
Camp Geiger	TC 601	0794
Camp Johnson	M 116	0507
Catholic Chapel	17	5775
Courthouse Bay	BB 16	7304
Jewish Chapel	67	5342
Protestant Chapel	16	5646
Tarawa Terrace	2791	5353 2967
CID	3	2571
	•	2228
	TC 307	0522
CIVILIAN IDENTIFICATION CARDS Prov Mar.	3B	2727 1005
CIVILLAN DAVIDOLL CUREDUCA	1000	
CIVILIAN PAYROLL SUPERVISOR	1005	5498
Supervisor Personnel History Section	1005	1935
CIVILIAN PERSONNEL OFFICE Civilian Personnel Officer	33	1886
Secretary	33	5904
Jeonetaly	رر	2704

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the state of the s	Bldg	Phone	Activity Bldg	Phone
Employment Division	A Company of the Comp	police and the same state of the same of t	Hadnot Point425	3888
Employment Superintendent	33	5918	Camp Geiger Annex	0246
Assistant Employment Superint		5918	Camp Johπson AnnexM-100	0838
Job Placement Branch	33	1656	Courthouse Bay Annex8B-54	7277
Employment Records Inquiries.		2763	Staff Noncommissioned Officers' Club	
Qualification & Evaluation Bra		1621	Manager322	2752
Employment Information	33	1621	Treasurer 322	2839
Employee Relations & Services			Hadnot Point	1534
Employee Relations Superinten		1579	THE ADMINISTRATE OF THE ADMINISTRATION AND ADMINISTRATION AD	1007
		1458	Camp Geiger AnnexTC-910	0274
and the second of the second o	Committee of the second of the	2305	Camp Johnson AnnexM-240	6180
Insurance, Retirement		1579	Courthouse Bay AnnexBB-27	7462
Labor Management Relations		1579	Onslow Beach Annex	7197
Worker's Compensation		1579	Consolidated Package Stores	
Occupational Health Division		- Table	Main Store. 1401	2717
Occupational Nurse	15	2181	Tarawa Terrace Store2471	2275
Training Division			Warehouse, CCMS. 1401	3137
Training Superintendent	33	1539	Golf Course Snack Bar 1915	1445
Training Superintendent		3653	THE SECTION AS A RESIDENCE OF COMMENTS OF	1443
		ַנַנָטַּר	CATORET NO 12 TO 1	
Classification Division			COMM(SSARY - See Page 33	to a second and the s
Classification Superintendent.		1532	COMMETANTE APPROPRIATE PROPRIATE	التان المستعلق
Performance Ratings	33	1532	COMMISSIONED OFFICERS MESS (Open)	
	1.12 - 1.1	The state of the s	Officers Officers Characters	
CLOTHING OFFICER MCB	1212	3170	Officer in Charge	2465
		2802	Annexes Courthouse Bay Annex	in a Combra guid in a bira i
	AND THE RESERVE AND THE PROPERTY AND THE		Courthouse Bay Annex	7372
COLD STORAGE PLANT		3428	Montford Point Annex M 231	0808
		-:	Onslow Beach AnnexBA 115	7127
COMBAT VILLAGE		7452	Senior Guest House	
			Room 102	1701
COMMAND CLUB MANAGEME		and the second	Room 108	1703
Manager		2801	Room 200	1705
Accounting	1401	2862	Room 203	1707
Purchasing		2863	Room 210	1709
Payroll/Personnel	1401	2861	Room 212	1792
Branches			The state of the s	
Officers' Club, Paradise Point	t 2615	2465	COMMUNICATION - ELECTRONICS	arte de la la la casa.
Manager		2465	Communication—Electronics Officer	5802
Information		2466	Asst Communication—Electronics Officer 24	2731
Camp Johnson Annex			Comm Chief/Administration 24	2731
Courthouse Bay Annex			Communication Center OIC/NCOIC 1101	5422
Construction A. L. D. C. C.	BA 11		Communication Watch Officer	1602
Unslow Beach Annex	2603	1339	AUTODIN Relay Supervisor1101	2625
Onslow Beach Annex Guest House (Junior)			AUTODIN Relay Operator	
Guest House (Junior)			AOTODIA Kelay Operator	
Guest House (Junior) Guest House (Senior)		1761	Facilities Control	1443
Guest House (Junior) Guest House (Senior) Room 102	2601	1701	Facilities Control	1443 3579
Guest House (Junior) Guest House (Senior) Room 102	2601	1703	Facil (ties Control 1101 Fiscal /Supply 24	1443 3579 1661
Guest House (Junior)	2601	1703 1705	Facilities Control	1443 3579 1661 1660
Guest House (Junior).  Guest House (Senior).  Room 102.  Room 108.  Room 200.  Room 203.	2601	1703 1705 1707	Facilities Control         1101           Fiscal /Supply         24           Mobile Radio Maint./Rep         S-23           Maintenance Officer/Chief         24	1443 3579 1661 1660 3721
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210.	2601	1703 1705 1707 1709	Facilities Control	1443 3579 1661 1660 3721 3721
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212.	2601	1703 1705 1707	Facilities Control	1443 3579 1661 1660 3721 3721 1661
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs	2601	1703 1705 1707 1709 1792	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager.	2601	1703 1705 1707 1709 1792 2872	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661 5116
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2.	2601	1703 1705 1707 1709 1792 2872 3814	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5.		1703 1705 1707 1709 1792 2872 3814 5294	Facilities Control   1101     Fiscal / Supply   24     Mobile Radio Maint./Rep   S-23     Maintenance Officer/Chief   24     Maintenance Trouble Calls   24     Operations Officer/Chief   24     Radio Central   24     Amateur Radio Station   PT 5	1443 3579 1661 1660 3721 3721 1661 1661 5116
Guest House (Junior).  Guest House (Senior).  Room 102.  Room 208.  Room 200.  Room 203.  Room 210.  Room 212.  Enlisted Clubs  Manager.  Area No. 2.  Area No. 5.  Camp Geiger.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270	Facilities Control   1101   Fiscal / Supply   24   Mobile Radio Maint./Rep   S-23   Maintenance Officer/Chief   24   Maintenance Trouble Calls   24   Operations Officer/Chief   24   Radio Central   24   Amateur Radio Station   PT 5   COMMUNITY ACTIVITIES	1443 3579 1661 1660 3721 3721 1661 1661 5116
Guest House (Junior). Guest House (Senior). Room 102 Room 108 Room 200 Room 203 Room 210 Room 212 Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661 5116
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep S-23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir — Youth Activities 730 Marston Pavilion Youth Center 730	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009
Guest House (Junior). Guest House (Senior). Room 102 Room 108 Room 200 Room 203 Room 210 Room 212 Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 1 7397	Facilities Control	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club.		1703 1705 1707 1709 1792 2872 3814 5294 14 0,270 4 0,709 1942 1 7,397	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 1 7397	Facilities Control	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club Courthouse Bay Svc Club, CC French Creek.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 1 7397 18 1446 3609	Facilities Control	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549 2253
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC.	62 225 524 TC-6 M-134 62 BB-54 FC 31 1006 H 1	1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 1 7397 18 1446 3609 4387	Facilities Control	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach.	62 225 524 TC-6: M-134 62 MS BB-54 FC 31 1006 H 1	1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 4 7397 18 1446 3609 4387	Facilities Control	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach.	62 225 524 TC-6: M-134 62 BB-54 FC 31 1006 H 1 BA 11 BA 10 B	1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 7397 18 1446 3609 4387 14 7126 11 7398	Facil (ties Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep 5–23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 730 Midway Park Community Center 174 Youth Athletic Activities 751 Youth Community Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT	1443 3579 1661 1660 3721 3721 1661 5116 5009 5052 1521 1549 2253 3125 1521
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range.		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 7397 18 1446 3609 4387 14 7126	Facil (ties Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep 5-23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir — Youth Activities 730 Marston Pavilion Youth Center 730 Midway Park Community Center 4025 Tarawa Terrace Community Center 7730 Youth Athletic Activities 751 Youth Community Activities 7730  COMPTROLLER DEPARTMENT Assistant Chief of Staff Comptroller 1	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range. Noncommissioned Officers' Cl		1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 3 7397 18 1446 3609 4387 7126 11 7438	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep 24 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 730 Midway Park Community Center 4025 Tarawa Terrace Community Center 174 Youth Athletic Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT 15 Deputy Comptroller 1	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521 2427 2427
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range. Noncommissioned Officers' Cl	62 225 524 TC_6. M-134 62 MS. BB_54 FC 31 1006 H 1 BA 11 BA 10 RR 49	1703 1705 1707 1709 1792 2872 3814 5294 14 0.270 4 0.709 1942 1 7.397 18 1446 3609 4387 7126 1 7458	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep S-23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 4025 Tarawa Terrace Community Center 174 Youth Athletic Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT Assistant Chief of Staff Comptroller 1 Secretary 1	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521 2427 2427
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range. Noncommissioned Officers' Cl Manager. Treasurer.	62 225 524 TC_6. M-134 62 MS. BB_54 FC 31 1006 H 1 BA 11 BA 10 RR 49 lub	1703 1705 1707 1709 1792 2872 3814 5294 14 0270 4 0709 1942 3 7397 18 1446 3609 4387 7126 11 7438	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep 24 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 730 Midway Park Community Center 4025 Tarawa Terrace Community Center 174 Youth Athletic Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT 15 Deputy Comptroller 1	1443 3579 1661 1660 3721 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521 2427 2427
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range. Noncommissioned Officers' Cl Manager. Treasurer.	62 225 524 TC=6 M=134 62 BB=54 FC 31 1006 H 1 BA 11 BA 10 RR 49 lub 425	1703 1705 1707 1709 1792 2872 3814 5294 14 0.270 4 0.709 1942 1 7.397 18 1446 3609 4387 7126 1 7458	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep S-23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 4025 Tarawa Terrace Community Center 174 Youth Athletic Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT Assistant Chief of Staff Comptroller 1 Secretary 1	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521 2427 2427
Guest House (Junior). Guest House (Senior). Room 102. Room 108. Room 200. Room 203. Room 210. Room 212. Enlisted Clubs Manager. Area No. 2. Area No. 5. Camp Geiger. Camp Johnson. Central Area Club. Courthouse Bay Svc Club, CC French Creek. Industrial Area Service Club. NRMC. Onslow Beach. Recon Service Club. Rifle Range. Noncommissioned Officers' Cl	62 225 524 TC=6 M=134 62 BB=54 FC 31 1006 H 1 BA 11 BA 10 RR 49 lub 425	1703 1705 1707 1709 1792 2872 3814 5294 14 0.270 4 0.709 1942 1 7.397 18 1446 3609 4387 7126 1 7458	Facilities Control 1101 Fiscal /Supply 24 Mobile Radio Maint./Rep S-23 Maintenance Officer/Chief 24 Maintenance Trouble Calls 24 Operations Officer/Chief 24 Radio Central 24 Amateur Radio Station PT 5  COMMUNITY ACTIVITIES Asst Recreation Dir – Youth Activities 730 Marston Pavilion Youth Center 4025 Tarawa Terrace Community Center 174 Youth Athletic Activities 751 Youth Community Activities 730  COMPTROLLER DEPARTMENT Assistant Chief of Staff Comptroller 1 Secretary 1	1443 3579 1661 1660 3721 1661 1661 5116 5009 5052 1521 1549 2253 3125 1521 2427 2427

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Activity	Bldg	Phone	Activity	Bidg	Phone
Budget Officer	1	3022	Magistrate	1041	5181
Disbursing Officer	1005	2815	Control	1041	1039
Fiscal Supervisor	1005	58 18	Supply	1041	1493
Civil Payroll Supervisor	1005	5498	Dining Facility	1041	3473
Cost Accounting Supervisor	1005	2724	Counselors	1041	1486
Internal Review	1	2327	Industries/Work Parties	1041	1967
	•	1779	Sick Bay	1041	1834
Plant Account Supervisor	1005	1453	Warden of the Day	1041	5920
		1433		20 12	1308
CONSOLIDATED AUTOMATED SERVICES CENT			COST ACCOUNTING Compt Dept	1005	
Director	1101	27 28 27 21	COST ACCOUNTING COMPT Dept	1005	2724 3601
Assistant Director	1101	2728	COUNTERINTELLIGENCE - DIVISION		
installation Object		2721	Combat Intelligence - DIVISION	510	1705
Installation Chief	1101	2721	Combat Intelligence	518	1725
Secretary.	1101	2721	Counterintelligence	2	1501
Adminstrative Section	1101	18 39	ITT Coordinator/Language Officer	123	2112
Supply/Accounting Section	1101	2721			3206
Systems Programming Officer	1101	2721	Photo Imagery Interpretation	123	3114
Applications Programming Branch			Interrogation Translation Teams (ITT)	123	3212
Head, Applications Programming Branch	1101	2725	4th CIT	430	1537
Systems Analysts	1101	2725			5411
Fiscal Programmers	1101	1861	5th Special Security Comm Team	518	5716
MMS/Personnel Programmers	1101		Map Storeroom	518	2816
Logistics Programmers.	1101	1835		520	2010
Small Systems Programmers		1861	COUNTERINTELLIGENCE TEAM - 2d FSSG		
	1101	1835	2d CIT	FC 400	£7.10
Processing Branch			20 011111111111111111111111111111111111	PC 400	57 19
Head, Processing Branch	1101	2721			1067
Operations Chief	1101	2721	Anna 1000 1000 1000 1000 1000 1000 1000 1		
Oustomer Services	1101	1888	CREDIT UNION (MARINE FEDERAL)		
S D A Operations	1101	1911	Switchboard & Information	58	* 2492
After Working Hours Processing Branch	3101	1000	Hours - 0815 - 1600 Mon, Tue, Thurs, Fri 0815 - 1300 Wed		
CONTRACTING DIVISION — See Page 34	1101	1888	CRIMINAL INVESTIGATION	3	2571
OUT TRACE ING DIVISION - See Fage 34				·	23/ 1
CONTRACTORS Allen M. Campagu			CUSTODIAN RECREATION FUND	751	5824
Allen M. Campbell		2688			
		2842			
		2865	D		
		2691			
		2394			
Bryant - Durham Electric Company	Trir	28 49	DEFENSE INVESTIGATIVE SERVICE	JKVL	0176
Hust Brothers	1502	3185			0650
IBM Corporation	1302	2793			00,50
Miller Building Corporation			DEFENSE PROPERTY DISPOSAL OFFICE	906	5613
miner burnaring corporation		2284	DETERMENT ROTERTY DISTOSAL OF FICE	700	
		2233			5652
Phifer & Goodwin Construction		2693			2303
Profes & Goodwin Construction		2134	0 64		1631
Poole & Kent Corp		5331	Open Storage	Lot 203	5156
Raytheon Service Company		5061	Receiving Unit	906	1634
Sidlis TV Rental Company	88	5488	Sales Storage	1117	3263
Speed Craft Shoe Service, Inc	43	5797	DEMPSTER DUMPSTER	1100	0/0/
CORRECTIONAL FACILITY			DEMI STER DUMFSTER	1105	2636
Commanding Officer	1041	59 20	DENTAL CARE - See Page 79		n - 1
Executive Officer.	1041	1308	· · · · · · · · · · · · · · · · · ·		
Sergeant Major	1041	5148	DENTAL OFFICER - MCB	15	2200
Corrections Officer		* · · · -			2208
Omodium United and a second se	1041	5920	Administrative Officer	15	2208
Corrections Supervisions	10	1308	Dental Officer of the Day	15	1658
Corrections Supervisor	1041	2330	Appointments – Information	15	1658
D.: C	1041	1479	and the second of the second o		3776
Prisoner Support Officer		0000	Preventive Denistry Unit	65	3264
Prisoner Support OfficerPrisoner Admin/Hold Ins/Temp Release	1041	2330			
Prisoner Support Officer	1041	2330 5181	Personnel Officer	65	3555
Prisoner Support Officer	1041				3555 5314
Prisoner Support Officer		5181	Personnel Officer	65	

Dental Clinic French Creek	FC 313	3239	2d FSSG/MCAS (H) Navy Accounts	H-1	3166
	M 128	6288	•		3155
DEPENDENT OUTPATIENT CLINICS - See Page 82			DISBURSING ON-SITE EXAMINATION TEAM - M	ARCORPS	
			Officer In Charge	M 414	6211
DINING FACILITIES			Assistant Officer In Charge	M 414	6211
Marine Corps Base	_		Enlisted Examiners	M 414	6143
Headquarters Battalion, MCB  Dining Facility Manager	9	5244 1737	DISPENSARY Medical Department - See Page 81		
Support Battalion, MCB	1209	38 19	BAA BAILUB		
Courthouse Bay	BB-7	7148	DOG POUND	PT 33	2695
Correctional Facility	1041	3473	**************************************		
Rifle Range	RR-3	7346	DRUG & ALCOHOL		
Camp Johnson	MP-424	6176	MCB	14	5733
Marine Corps Air Station (H)	4012	00 - 851	2D Marine Division	14	1954
Marine Corps Air Station	226	00-151	2D FSSG	61	3471
2d Marine Division			DSSC Division - See Page 34		
Camp Geiger, 8th Mar	G-640	0369			
Dining Facility Manager	G640	0438	DUTY OFFICER		
2nd Recon Bn	BA-103	7161	(See Inside of Front Cover)		
2nd Marines	211	3490			
3/2	122	20 10			
H & S Bn	325	3689	· E		
6th Marines	411	3431	EDUCATION OFFICER C D 22		
10th Marines  Dining Facility Manager	521 521	3909	EDUCATION OFFICES See Page 33		
Diffing Cachity Manager	521	3909	ELECTRIC SHOP	1202	5256
2nd FSSG					
H & S BN	FC 540	3600	EMBARKATION OFFICER - DIVISION	320	5518
8th Motor Transport Bn	FC-420	1021			3780
8th Eng. Bn	FC-303	1390	EMERGENCY		
Ziu Canung Support Bit	508	5266	Fire		2222
DISASTER CONTROL OFFICER	1	3520	Maintenance	1202	3333
DISBU RSING			Medical Officer	3	2555
Disbursing Officer	1005	2815	Wedical Officer	15	3141
prisons of the state of the sta	1005	3051	EMPLOYEE RELATIONS Civilian Personnel	33	1579
Asst Disbursing Officer	1005	2815	Lini Colle Reex 1003 Civilian Personnet	33	19/7
Took Brooking Officers.	1005	3051	EMPLOYMENT OFFICE (Civil Service)	33	2763
Disbursing Chief	1005	2815	and Bothlett of Field (ettil delitica)	33	2/03
Distance of the control of the contr	1005	5843	ENGINEER SCHOOL MARINE CORPS - See Page 37		
Fiscal Data Section	1005	2251	and the second control of the second of the		
Key Punch Section	1005	3051	EXCHANGE (MCX) - See Page 24		
Mail & File Section	1005	3051			
Military Pay Account Section	1005	3051	EXPLOSIVE ORDNANCE DISPOSAL		
Public Voucher Section	1005	1365	Explosive Ordnance Disposal	G 480	0118
Travel Section	1005	3051	EOD Platoon.	1308	5419
DEPUTY DISBURSING OFFICES			_		
Courthouse Bay — Marine Corps Engineer School			F		
Deputy Disbursing Officer	BB 8	7258			
NCOIC	BB8	7207	FIELD MEDICAL SERVICE SCHOOL - See Page 37		
Pay Accounts	BB 8	7284	•		
Aontford Point Marine Corps Service Support Schoo	ls		FAMILY ASSISTANCE OFFICE	41	5417
Deputy Disbursing Officer	M 401	6106			1362
NCOIC	M 401	6257			
Naval Hospital			FIELD HOUSE	751	5694
Deputy Disbursing Officer	H 1	4363			
		4478	FIELD SUPPLY MAINT & ANALYSIS OFFICE	M 129	6213
MCB Navy Accounts	H 1	4478			6162
MCB Navy Accounts	H 1 H 1	4478 4363 4478			6162

All of the control of the state

of suppose that the graph subserve is a second degree of the fillight. But I see a

Activity	Bldg	Phone
FIRE DEPARTMENT		
EMERGENCY FIRE ONLY		3333
Fire Chief	18	5815 5956
District Fire Chief - Camp Geiger  District Fire Chief - Midway Park	TC 701 4022	0538 2383
Chief Fire Inspector	1203	5037
Fire Station #3	18	5856
Courthouse Bay Fire Station #7	BB 8	7221
Fire Station #8	M 303	6132
Rifle Range Fire Station #10	RR 6	7223
Industrial Area Fire Station	1400	2131
Paradise Point Fire Station	2600	2132
Fire Tower 2 Sneads Ferry		7491 347–1977
Fire Tower Deppe Highway 17		347-3218
Fire Tower 5 Engineer Stockade		3956
FIREWOOD	1202 1041	5376 1967
FISH & WILDLIFE CONSERVATION	1103	2195
FISH & WILDLIFE GAME WARDEN	4002	5226
		2196
FLOWER SHOP	895	2674
		353-9700
FMF ASSISTANCE - MCB	207	3049
FMF ASSISTANCE - DIVISION	10	3057
FOOD SERVICE DIVISION, MCB - See Page 34		
FOOD SERVICE SCHOOL COMPANY —See Page 39		
2d FSSG TRAINING ALLOWANCE POOL	1317	1000
	111-11-6	5814
2d FSSG FMFLANT - See Page 55		
FORESTRY OFFICER	1103	2195
FREIGHT TRANSPORTATION & TRAFFIC SECT	ION	
General Foreman	1011	2542
Freight Claims/Receiver	1011	2542
Freight Processing Unit	Lot 201 1011	3551
Warehouse Shipping Unit.	915	5245 1585
FRENCH CREEK AREA CLINIC	. , _ 3	
	FC 313	5798
Medical Officer		
Medical Officer	FC 313	5798
Medical Officer. Clinic Supervisor. Administration.	FC 313 FC 313	5798 5125
Medical Officer. Clinic Supervisor. Administration. Health Records.	FC 313 FC 313 FC 313	5125 5126
Medical Officer. Clinic Supervisor. Administration. Health Records. Physical Exams.	FC 313 FC 313 FC 313 FC 313	5125 5126 5127
Medical Officer. Clinic Supervisor. Administration. Health Records. Physical Exams. Bn Chief, 8th EngSupt 3n.	FC 313 FC 313 FC 313 FC 313	5125 5126 5127 5125
Medical Officer.  Clinic Supervisor.  Administration.  Health Records.  Physical Exams.	FC 313 FC 313 FC 313 FC 313	5125 5126 5127
Medical Officer Clinic Supervisor. Administration. Health Records. Physical Exams. Bn Chief, 8th EngSupt 3n. Bn Chief, 8th Comm Bn. Freight Shipments.	FC 313 FC 313 FC 313 FC 313 FC 313	5125 5126 5127 5125 5127
Medical Officer Clinic Supervisor. Administration Health Records. Physical Exams. Bn Chief, 8th EngSupt 3n. Bn Chief, 8th Comm Bn. Freight Shipments.  FUEL PUMPS Fuel Issue ~ Camp Geiger.	FC 313 FC 313 FC 313 FC 313 FC 313 FC 313	5125 5126 5127 5125 5127 2542
Medical Officer. Clinic Supervisor. Administration. Health Records. Physical Exams. Bn Chief, 8th EngSupt 3n. Bn Chief, 8th Comm Bn. Freight Shipments.	FC 313 FC 313 FC 313 FC 313 FC 313 FC 313	5125 5126 5127 5125 5127 2542

Activity	Bldg	Phone
FURNITURE PUBLIC QTRS Qtrs & Housing	1501	5349
FURNITURE REPAIR Special Services	TC 609	0562
G		
GAME WARDEN	4002	5226
GATES		
Main Gate - Camp Lejeune	35	1821
Visitor's Information Center	812	1344
Motor Vehicle Registration	4000	1793 5348
Camp Geiger Gate	TC 306	0143
Camp Johnson Gate	M 169	6141
Rifle Range	RR 78	7247
Sneads Ferry Gate	A-20	7391
Triangle Outpost Gate	CR-122	1589
GIRL SCOUT COORDINATOR	2627	2276
GLOBE		
Editor	302	5680
Public Affairs Officer & Chief	302	5655
Release Section	302	5782
GOLF COURSE		
Golf Pro Shop	1915	5445
Greenskeeper	1916	2273
Issue Room & Reservations	1915	1668
GOTTSCHALK MARINA	31	1956
GYMNASIUMS		
Area 2	201	1612
Area 4	401	3768
2d FSSG.	500 115	5288 1879
Camp Geiger	TC-775	0131
Montford Point	M 129	6245
Н		
HOMO LIAISON REPRESENTATIVE SECTION		
Senior HQMC Liaison Representative	1	2715
Aumini Assu Section Chief	1	1751
HIDDEN TALENTS (OWC)	64	2658
HOBBY SHOPS		
Hobby Shops NCOIC	1107	5191
Auto Body Shop Hadnot Point	1103	2042
Auto Hobby Shop Hadnot Point	1120	1550
Woodworking Hobby Shop Hadnot Point	1107 1106	2077 5191
HOSPITAL CENTER -NRMC -See Page 81		
	•••	
HOSTESS HOUSE	896	* 3041
HOUSEHOLD GOODS & PERSONAL PROPERTY		
Claims Unit	1011	2654
Personal Effects & Baggage	1011	3671

Activity	Bldg	Phone	Activity	Bldg	Phone
			Radio - TV Section	302	5782
Quality Assurance Unit	1011	2543			
Receiving Unit	1011	3081	JUDICIARY ACTIVITY Marine Corps US Navy		
Self-Move Section	1011	2377	General Courts-Martial Judge	66	5816
		1367	•		2224
Shipping Unit	1011	2647	Special Courts-Martial Judges	66	3842
	1011	2654	-pin boards marrial daugest, , , , , , , , , , , , , , , , , , ,	00	2042
Voucher Examiner Unit	1011				
voucher Examiner Unit	1011	2647	L		
HOUSING (FAMILY)			<b>L</b>		
Applications & Assignments	TT 43	2577			
Vacate & Checkouts	TT 43	2577	LAUNDRY DIVISION - See Page 34		
Off-Base Housing Referral	TT-43	2548			
Fiscal Section.	TT-43	2448	LEGAL ASSISTANCE OFFICER, TRI-COMMAND	66	1903
Cashier	TT-43	2448	and the second s	00	
Furniture Section					5860
runnture section	1501	2812	LIBBARIES		
		3657	LIBRARIES		
		5349	Camp Johnson	M 321	6171
Director	TT-43	5902	Central Library	63	5724
Secretary	TT-43	2895			3178
Work Center					
Maintenance Requests (0800–1630)	2797	2244	LOCATOR PERSONNEL - Tri Command	1770	3074
		2245		7	
Maintenance MCAS (H) NR (Only) (0800-1630)	122	455-6817	LOCKSMITH	1202	3001
Emergency Maint (after normal working hours)	1202	3001			
Tenant Relations	2797	2825	LOGISTICS DEPARTMENT		
Inspection Section	2797	2247	Assistant Chief of Staff Logistics	1116	2535
			Secretary	1116	2535
			Asst AC/S Logistics	1116	2535
1			•		
			LOTS		
•			140		1712
CE PLANT	1300	3428	201		1625
		3420	203		5156
DENTIFICATION					2130
Pet Registration	3 B	1005	LUMBER YARD	1302	5105
Civilian I. D. Cards	3 B	2727		1302	3103
Civilian 1. D. Calus	90				
I.D. Photo	2.0	1005	M		
1.D. Photo	3–B	1005	М		
		2727			
INFORMATION COORDINATOR, MCB	1	3605	MAGAZINE AREA	SH 7	2114
INSECT VECTOR CONTROL	PT 37	5761	MAINTENANCE DEPARTMENT		
MODEL VECTOR CONTROL	F 1 37	3/01	MAINTENANCE DEPARTMENT EMERGENCY MAINTENANCE	1000	2001
INCRECTOR HER				1202	3001
INSPECTOR - MCB	1	1850	24 Hour Service		
Base Traffic Board	4000	5807	Hadnot Point	1202	3001
Base Traffic Court	4000	1951	Montford Point	м 131	6142
		1582			
			Base Maintenance Officer	1202	2511
INTERNAL AUDIT OFFICE	TT42	5995	Assistant Maintenance Officer	1202	2511
			Secretary	1202	2511
INTERNAL REVIEW SECTION	1	2327	Maintenance Liaison NCO	1202	5376
		1779			•
			ADMINISTRATIVE DIVISION		
INVESTIGATION (CID)	3	2571	Director	1202	5307
, , , , , , , , , , , , , , , , , , , ,			Personnel Clerk	1202	3722
			Finance and Accounting Branch		
J			Fiscal Accounting Supervisor	1202	5122
-			Property Office	1202	5300
				1202	1004
JOINT PUBLIC AFFAIRS OFFICER	302	5655			1004
Public Affairs Chief			MAINTENANCE AND REPAIR DIVISION		
	302	5655	Director	1202	5855
Community Relations Section	302	2604		1202	
GLOBE	302	5680	Againtant Discotor	1000	5184
	302	1543	Assistant Director	1202	58 55
Instant Information					
Press Chief	302	5680			

Activity	Bldg	Phone
mergency/Service Branch		
Branch Head	1202	5773
Seneral Trades Branch		
Maintenance General Foreman	1202	2867
Carpentry Shop	1202	1689
		3561
Electric Shop	1202	5256
Electric Distribution Shop	1202	5256
Lawnmower Repair	940	1823
Metalworking Shop	1202	5110
Paint Shop	1202	2044
		5072
Plaster & Masonary Shop	1304	1775
		2090
Plumbing and Heating Shop	1202	3457
Steam & Water Distribution	1103	5147
Refrigeration and Air Conditioning Shop	1202	3235
Motor Transport Support Section		
Motor Transport	1203	3939
U-Drive	1203	3160
tructures and Ground Service Branch		
Ground Structures General Foreman	1105	5158
Groundskeeping Section	1105	2636
Heavy Equipment Section	45	5909
Thouast a section of the section of		2295
Bridge (Onslow Beach)		7376
Insect and Rodent Control Section	PT 37	5761
Insect Vector Control Dispatcher	PT 37	3582
Nursery and Landscaping Section	1105	3446
Refuse and Garbage Collection	1105	2636
	1105	2070
NATIONAL DECONDERS & ENVIRONMENTAL AS	EAIDS DIV	(ICION
	FAIRS DIV	5003
Director.,	1103	5003 2083
		<b>5003 2083</b> 5003
Director	1103	5003 2083 5003 2083
Ecologist	1103	5003 2083 5003 2083 2195
Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area	1103	5003 2083 5003 2083 2195 7491
Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon	1103	5003 2083 5003 2083 2195 7491 347–1977
Cologist  Forestry Branch Fire Tower 2 Sneads Ferry Gate Area Fire Tower 3 Dixon. Fire Tower 4 Deppe.	1103	5003 2083 5003 2083 2195 7491 347–1977 347–3218
Cologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.	1103 1103 1103	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch	1103 1103 1103	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch	1103 1103 1103	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195
Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch	1103 1103 1103 1103 4002	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch.  Game Warden Branch.	1103 1103 1103	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch.  Game Warden Branch.	1103 1103 1103 1103 4002	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196
Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fire Tower 5 Onslow Beach Area  Game Warden Branch  Quality Control Laboratory  DPERATIONS DIVISION	1103 1103 1103 1103 4002 762	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196
Ecologist  Forestry Branch Fire Tower 2 Sneads Ferry Gate Area Fire Tower 3 Dixon Fire Tower 4 Deppe Fire Tower 5 Onslow Beach Area Fish and Wildlife Branch Game Warden Branch  OPERATIONS DIVISION Director	1103 1103 1103 1103 4002	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977
Director  Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  Quality Control Laboratory  DPERATIONS DIVISION	1103 1103 1103 1103 4002 762	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977
Director  Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Gome Warden Branch  OPERATIONS DIVISION  Director  Assistant to Director  Inspection Branch	1103 1103 1103 1103 4002 762	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977
Director  Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  DERATIONS DIVISION  Director  Assistant to Director  Inspection Branch	1103 1103 1103 1103 4002 762 1202 1202	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977
Director  Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  DERATIONS DIVISION  Director  Assistant to Director  Inspection Branch	1103 1103 1103 1103 4002 762 1202 1202 1202	5003 2083 5003 2083 2195 7491 347—1977 347—3218 3956 2195 5226 2196 5977
Ecologist  Forestry Branch Fire Tower 2 Sneads Ferry Gate Area Fire Tower 3 Dixon Fire Tower 4 Deppe Fire Tower 5 Onslow Beach Area Fish and Wildlife Branch Game Warden Branch  OPERATIONS DIVISION  Director Assistant to Director Inspection Branch  Planning & Estimating Branch	1103 1103 1103 1103 4002 762 1202 1202 1202	5003 2083 5003 2083 2195 7491 347—1977 347—3218 3956 2195 5226 2196 5977
Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  OPERATIONS DIVISION  Director  Assistant to Director  Inspection Branch  Planning & Estimating Branch  Vork Management Branch  Branch Head	1103 1103 1103 1103 4002 762 1202 1202 1202	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch.  Vork Management Branch Branch Head. Shop Planners.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch.  Vork Management Branch Branch Head. Shop Planners.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch.  Vork Management Branch Branch Head. Shop Planners. Shop Planner.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch  Vork Management Branch Shop Planners. Shop Planner. Shop Planner.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch.  Vork Management Branch Shop Planners. Shop Planner. Shop Planner. Programming & Work Reception Branch	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3105 2156 455-6719
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch.  Game Warden Branch.  OPERATIONS DIVISION  Director.  Assistant to Director.  Inspection Branch.  Planning & Estimating Branch.  Work Management Branch  Branch Head.  Shop Planners.  Shop Planner.  Shop Planner.  Programming & Work Reception Branch  Programmer.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1204 AS-122	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156 455–6719
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch.  Game Warden Branch.  OPERATIONS DIVISION  Director.  Assistant to Director.  Inspection Branch.  Planning & Estimating Branch.  Work Management Branch  Branch Head.  Shop Planners.  Shop Planner.  Shop Planner.  Programming & Work Reception Branch  Programmer.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1204 AS-122	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3106 2156 455-6719
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch.  Vork Management Branch Branch Head. Shop Planners. Shop Planner. Shop Planner. Programming & Work Reception Branch Programmer. Self-Help/Troop Training NCO.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1204 AS-122	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3103 2156 455-6719
Ecologist.  Forestry Branch. Fire Tower 2 Sneads Ferry Gate Area. Fire Tower 3 Dixon. Fire Tower 4 Deppe. Fire Tower 5 Onslow Beach Area. Fish and Wildlife Branch. Game Warden Branch.  OPERATIONS DIVISION Director. Assistant to Director. Inspection Branch. Planning & Estimating Branch. Work Management Branch Branch Head. Shop Planners. Shop Planner. Shop Planner. Programming & Work Reception Branch Programmer. Self-Help/Troop Training NCO.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1204 AS-122	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156 455–6719
Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area Fish and Wildlife Branch  Game Warden Branch.  Quality Control Laboratory.  DPERATIONS DIVISION  Director.  Assistant to Director.  Inspection Branch.  Planning & Estimating Branch.  Work Management Branch  Branch Head  Shop Planners.  Shop Planners.  Shop Planner.  Programming & Work Reception Branch  Programmer.  Self-Help/Troop Training NCO.  TELEPHONE DIVISION  Telephone Officer.  Wire Chief.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202 1204 AS-122	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 455-6719 2590 2970
Director  Ecologist  Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon  Fire Tower 4 Deppe  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  Quality Control Laboratory  DPERATIONS DIVISION  Director  Assistant to Director  Inspection Branch  Planning & Estimating Branch  Work Management Branch  Branch Head  Shop Planners  Shop Planners  Shop Planner  Programming & Work Reception Branch  Programmer  Self-Help/Troop Training NCO  TELEPHONE DIVISION  Telephone Officer  Wire Chief	1103 1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202 1202 12	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156 455-6719 2590 2970
Forestry Branch  Fire Tower 2 Sneads Ferry Gate Area  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area  Fish and Wildlife Branch  Game Warden Branch  Quality Control Laboratory  OPERATIONS DIVISION  Director  Assistant to Director  Inspection Branch  Planning & Estimating Branch  Work Management Branch  Branch Head  Shop Planners  Shop Planner  Shop Planner  Programming & Work Reception Branch  Programming & Work Reception Branch  Programmer  Self—Help/Troop Training NCO  TELEPHONE DIVISION  Telephone Officer	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202 1202 12	5003 2083 5003 2083 2195 7491 347–1977 347–3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156 455–6719
Director  Ecologist.  Forestry Branch.  Fire Tower 2 Sneads Ferry Gate Area.  Fire Tower 3 Dixon.  Fire Tower 4 Deppe.  Fire Tower 5 Onslow Beach Area.  Fish and Wildlife Branch.  Game Warden Branch.  Quality Control Laboratory.  OPERATIONS DIVISION  Director.  Assistant to Director.  Inspection Branch.  Planning & Estimating Branch.  Work Management Branch  Branch Head.  Shop Planners.  Shop Planner.  Shop Planner.  Programming & Work Reception Branch  Programmer.  Self-Help/Troop Training NCO.  TELEPHONE DIVISION  Telephone Officer.  Wire Chief.  Telephone Accounts.	1103 1103 1103 1103 4002 762 1202 1202 1202 1202 1202 1202 1202 12	5003 2083 5003 2083 2195 7491 347-1977 347-3218 3956 2195 5226 2196 5977 1580 1580 5202 5809 1358 5418 3109 2156 455-6719 2590 2970

Activity	Bldg	!	Phone
Telephone Chief Operator	1 1		3400 1114
ITILITIES DIVISION			
Director	1202		5161
Utilities General Foreman	1202		5161
Cold Storage Plant (Machine Room)	1300		3567
Heating Plant	1700		3627
Sewage Treatment Plant	22		5933
Water Treatment Plant	20		5988
Computer Room	1202		2985
Utilities Monitoring Engineer	1202		5642
Tech Shop, UMACS	1105		3252
Routine Requests (0800-1630)	2797		2244
			2245
MCAS (H) NR (Only) (0800–1630)	122	455	-68 17
Emergency (after normal working hours)	1202		300
MANAGEMENT ASSISTANCE OFFICE Management Assistance Officer	12		5521
management Assistance Officer	14		1577
MARINA – GOTTSCHALK	31		1956
MARINE CORPS ENGINEERS SCHOOLS - See Page 37			
MARINE CORPS EXCHANGE ACTIVITIES			
SWITCHBOARD	895	*	2481
COMMAND CECTION			
COMMAND SECTION	005		5044
Exchange Officer	895		5944
Asst Exchange Officer	895		5462
Operations/Admin Director	895		5944
Operations Chief	895		2744
ACCOUNTING SECTION			
Comptroller	895	*	2481
Accountant	895	*	2481
Assistant Acct/Office Mgr	895	*	2481
EDP Operations Center	895		5842
APMINISTRATIVE SECTION			5944
	905		2744
ADMINISTRATIVE SECTION Operations/Admin Director	895		EACO
Operations/Admin Director			5462
	895 895		5462 5944 5462
			5944
Operations/Admin Director	895		5944 5462
Operations/Admin Director		*	5944
Operations/Admin Director	895 25 84	*	5944 5462 5396 2481
Operations/Admin Director	25 84	*	5944 5462 5396 2481
Operations/Admin Director  Assistant Admin Supervisor  ALTERATIONS CLOTHING Alteration Shop Uniform Shop, Main Store  AUTOMOTIVE SECTION Automotive Director  Asst Automotive Director	25 84 1611 1611	*	5944 5462 5396 2481 2443
Operations/Admin Director  Assistant Admin Supervisor  ALTERATIONS CLOTHING Alteration Shop  Uniform Shop, Main Store  AUTOMOTIVE SECTION  Automotive Director  Asst Automotive Director  Service Desk	25 84 1611 1611 1611	<b>k</b>	5944 5462 5396 2481 2443 2443
Operations/Admin Director  Assistant Admin Supervisor  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store  AUTOMOTIVE SECTION Automotive Director Asst Automotive Director Service Desk Accessories/Parts	25 84 1611 1611 1611 1611	*	5944 5462 5396 2481 2443 2443 2443
Operations/Admin Director  Assistant Admin Supervisor  ALTERATIONS CLOTHING Alteration Shop Uniform Shop, Main Store  AUTOMOTIVE SECTION Automotive Director Asst Automotive Director Service Desk Accessories/Parts Camp Geiger Ser Sta	25 84 1611 1611 1611	*	5944 5462 5396 2481 2443 2443
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store.  AUTOMOTIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Camp Johnson Ser Sta.	25 84 1611 1611 1611 TC-912 M 171	*	5944 5462 5396 2481 2443 2443 2443 2443 0690
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store.  AUTOMO TIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Camp Johnson Ser Sta. Central Ser Sta (Pumps).	25 84 1611 1611 1611 17C-912 M 171 1613	*	5944 5462 5396 2481 2443 2443 2443 2443 2443 2443 2443 244
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Jniform Shop, Main Store.  AUTOMOTIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Cempt Johnson Ser Sta. Central Ser Sta (Pumps). Courthouse Bay Ser Sta.	25 84 1611 1611 1611 TC-912 M 171 1613 BB 177	*	5944 5462 5396 2481 2443 2443 2443 0690 0832 2444 7345
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store.  AUTOMOTIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Cemtral Ser Sta (Pumps). Courthouse Bay Ser Sta. Midway Park Ser Sta.	25 84 1611 1611 1611 17C-912 M 171 1613	*	5944 5462 5396 2481 2443 2443 2443 0690 0832 2444 7345
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store.  AUTOMOTIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Camp Johnson Ser Sta. Central Ser Sta (Pumps) Courthouse Bay Ser Sta. Midway Park Ser Sta. Midway Park Ser Sta. MCAS(H) New River Ser Sta.	25 84 1611 1611 1611 TC-912 M 171 1613 BB 177	*	5944 5462 5396 2481 2443 2443 2443 0690 0832 2442 7345
Operations/Admin Director.  Assistant Admin Supervisor.  ALTERATIONS CLOTHING Alteration Shop. Uniform Shop, Main Store.  AUTOMOTIVE SECTION Automotive Director. Asst Automotive Director. Service Desk. Accessories/Parts. Camp Geiger Ser Sta. Cemptal Ser Sta (Pumps) Courthouse Bay Ser Sta.	25 84 1611 1611 1611 17C-912 M 171 1613 BB 177 4015	*	5396 2481 2443 2443 2443 2443 0690 0832 2444 7345 2783

<sup>\*</sup>Denotes Private Switchboard

Activity	Bldg	Phone
BANK, MAIN STORE	84	2296
BARBER SHOPS		
Area #2	225	1626
Area #4	403	1681
Area #5	524	2336
Building #2	2	1791
Building #4	4	5337
Camp Geiger	TC-910	0744
Camp Johnson	M19	6260
Central	84	*2481
Courthouse Bay	BB 3	7357
French Creek	FC 312	5237
Industrial Area	1207	1780
MAG-29 MCAS(H) New River	4126	455-6538
MCAS(H) New River	233	347-4377
Midway Park	4014	2342
Naval Regional Medical Center	4014 H 1	4532
	BA 101	7297
Onslow Beach		
Rifle Range	RR 10	7230
Tarawa Terrace	2473	2345
BEAUTY SHOPS		
Central	84	5090
MCAS(H) New River	233	347-4377
Midway Park	4014	2342
Tarawa Terrace	2473	2345
Idiawa Terrace	2475	2343
BOWLING PRO SHOP, HADNOT POINT	89	5731
CHECK REDEMPTION	895	* 2481
CLEANING & PRESS SHOPS		
Area #2	225	5767
Area #4	Trailer	5676
Area 5	524	5873
Camp Geiger	TC-830	0716
Camp Johnson	M-602	0737
Central	25	5686
Courthouse Bay	BB 16	7415
French Creek #1	FC 320	5466
French Creek #2	Trailer	5572
MCAS(H) New River	232	347-5748
		2344
Tarawa Terrace	2467	2344
COBBLER SHOP	43	5797
DECORATOR/DISPLAY SECTION	1402	* 2481
EDP OPERATIONS CENTER	895	5842
EXCHANGES		
Area No 2	225	1626
Area No 4	403	1681
	524	2336
Area No 5	1985	5491
Area No 5  Berkeley Manor 7-Day		5337
Berkeley Manor 7-Day		
Berkeley Manor 7-Day	4 .	079
Berkeley Manor 7-Day	4 TC 910	
Berkeley Manor 7-Day	4 TC 910 M-19	0822
Berkeley Manor 7-Day	4 TC 910 M-19 BB 3	0822 7357
Berkeley Manor 7-Day.  Bldg #4 Camp Geiger. Camp Johnson Courthouse Bay. French Creek.	4 TC 910 M-19 BB 3 FC 320	0822 7357 2382
Berkeley Manor 7-Day.  Bldg #4	4 TC 910 M-19 BB 3 FC 320 1207	0822 7357 2382 1780
Berkeley Manor 7-Day.  Bldg #4 Camp Geiger. Camp Johnson. Courthouse Bay. French Creek. Industrial Area. Main Exchange, Hadnot Point.	4 TC 910 M-19 BB 3 FC 320 1207 84	0822 7357 2382 1780 * 2481
Berkeley Manor 7-Day.  Bldg #4	4 TC 910 M-19 BB 3 FC 320 1207 84 4126	0822 7357 2382 1780 * 2481 455–4144
Berkeley Manor 7-Day.  Bldg #4	4 TC 910 M-19 BB 3 FC 320 1207 84 4126 232	0822 7357 2382 1780 * 2481 455-4144 347-2168
Berkeley Manor 7-Day.  Bldg #4	4 TC 910 M-19 BB 3 FC 320 1207 84 4126 232 4014	0822 7357 2382 1780 * 2481 455–4144

			M
Activity	Bldg	F	hone
Onslow Beach	BA 101		7297
Rifle Range	RR 10		7230
Tarawa Terrace	2461		2668
Tarawa Terrace 7-Day Store	2477		5431
FINANCE OFFICE	84		5070
FLOWER SHOP	895		2674
FOOD SERVICE SECTION			
Food Director	1010		5672
Assistant Food Director	10 10		5077
Manager Theater Snack Bars	10 10		5077
Area #4 Snack Bar	403		1681
Berkeley Manor Hot Dog Hut	- 89		5491
Bowling Ctr. Snk. Bar, MCAS(H), New River	205	455	5731 -6731
bowning ca. Sik. Bai, WCASKII, New Kivel	200	400-	6582
Building #4 Snack Bar	4		5337
Building #1202 Snack Bar	1202		3923
Bus Station Snack Bar	251		2070
Cafeteria/Steak House	1220		2591
Camp Geiger Snack Bar	TC 910		0793
Camp Johnson Snack Bar	M19		0822
Courthouse Bay Snack Bar	BB 3		7357
Fast Food Snack Bar	84		2791
Food Preparation & Issue Warehouse	1015		5534
French Creek Snack Bar			2632
Gun Park Hot Dog Hut.			3142
Industrial Area Hot Dog Hut		15 E	2877 -6736
MAG-29 MCAS(H) New River Snack Bar	232		-2168
Mainside Hot Dog Hut	272	741 -	2791
MCAS(H) New River Hot Dog Hut		455-	-6736
Midway Park Snack Bar	4014		2341
Mobile Food Units	1015		5658
Montford Point Theater Snack Bar	SM 175		6161
Naval Reg. Medical Center Snack Bar	H 1		4590
Rifle Range Snack Bar	RR 10		7230
Steakhouse	1220		2591
Tarawa Terrace Snack Bar	1010 2461		2758 2668
LAYAWAY PICKUP WAREHOUSE	1402	*	2481
MAIN STORE HADNOT POINT			
Manager/Asst Mgr	84	*	2481
Annex – Merchandise Pickup	88	*	2481
Customer Service/Layaways/Def Payments	84	*	2481
Section #1 (Toiletries/Case Lot Sales)	84	*	2481
Section #2 (Ladies, Infants, Ladies Shoes)	84	*	2481
Section #3 (Housewares, Sewing, Luggage)	84	*	2481
Section #4 (Hardware, Toyland, Garden Shop) Section #5 (Sound, Jewelry, Gift)	84 84	*	2481
Section #6 (Mens)	84 84	*	2481 2481
Section #7 (Uniform Shop)	84	*	2481
Section #8 (Sporting Goods, Camera)	84	*	2481
MAINTENANCE SECTION			
Property & Maintenance Director	895		2135
Maintenance Section	1016		5392
Maintenance Shop, Midway Park	4015		3803
MERCHANDISE/PURCHASING SECTION	90 F	*	2,40.1
Merchandise Director  Manager, Branch Exchanges	895 895	*	2481 2481
manayer, Dranch Exchanges	070	,	7401

Activity	Bldg	F	hone	Activity	Bldg	Phone
Buyers	895	*	2481	MILE HAMMOCK BAY		7156
Stock Control	895	*	2481	MILITARY POLICE EMERGENCY	3	2555
MERCHANDISE WAREHOUSE						
Distribution Fac Mgr	1402		3522 2481	MILITARY TAXI	1407	1639
warehouse Manager	1402	*	2481 3612	MIMMS OFFICER	1208	5109
			3136	MOTOR TRANSPORT DEPARTMENT		
Receiving Section	1402	*	2481	Motor Transport Officer	1502	5608
•			3612	Asst. Motor Transport Officer		
			3136	•		5608
Return Order Section	1402	*	2481	Motor Transport Chief	1502	5375 3537
				Operations Branch		
OPERATIONS SECTION				Operations Director	1407	2803
Operations/Administrative Director	895		5944	Operations Chief		2803
Operations Chief	895	*	2481	MT Staff Duty Officer(After 1630 & Sat & Sun).	1407	2803
Check Redemption	895	*	2481		1407	2003
	-	*		Main Motor Pool Hadnot Point	1 407	
Inspectors	895	-	2481	Dispatcher (24 Hours Daily)		3585
Training Classroom	1006		1783	Military Taxi Dispatcher	1407	1639
DOTICAL SHOPE				Bus Section		3585
OPTICAL SHOPS				·	235	3632
Hadnot Point	88		2857	Light/Medium Section	1310	3930
MCAS(H) New River	233	347-	-5531	Heavy Section		3585
		- 1.	2221			
PERSONNEL SECTION				MT Support Section, MCAS		455–6843
Personnel Director	895	*	2481	MT Support Section, MCES (Courthouse Bay)		7394
				MT Support Section, Rifle Range		7280
Asst Personnel/Training Director	895	*	2481	MT Support Section, Base Medical Dept	15	3141
Insurance Clerk	895	*	248 1	Maintenance Branch		
				Maintenance Director	. 1502	5375
PREPAID SUPPLIES WAREHOUSE	TC 611		0736	Main Maintenance Shop Hadnot Point		
RADIO &TV REPAIR	00		F/0.4	Repair Section I		3437
	88		5684	Repair Section II		3437
Rental TV Shop	84		5488	Materials Handling Equipment Section	1502	5167
CPD-W-D-1				Body Shop	908	1718
SERVICES SECTION				Lube Shop	1607	3112
Services Director	1413		5631	Inspection Station	1504	3116
Laundromat/Information/Complaints	1413		5631	Maintenance Support Section, MCAS		455-6705
Vending Service Calls	1413		2000	Administrative Branch	-10	133 0703
Vending Warehouse	1413		5631		1500	2244
Toronty materiouserritting the state of the	1417		1001	Driver License Examiner & Trainer	1502	3244
S ECURITY SECTION				Fiscal & Timekeeping		3437
				Maintenance Control and Vehicle Utilization		5273
Security Manager	84		2642	Property Section		1710
Security Section, Main Store		*	2481	Tire Shop	1504	3815
WATCH REPAIR	88		5937	Contractor Operated Parts Store (COPARS)	1502	3185
	. •••		5757	MOTOR TRANSPORT SCHOOL Co, MCSSS - See Pag	a 39	
MARINE CORPS SERVICE SUPPORT SCHOOLS - See	Page 38					
The second of th	. aga so			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		
MARINE SPORT PARACHUTE CLUB	M 218		0827			
MARS STATION (Amateur Radio)	PT 5		5116	MAVAL AUDIT CITE		
MAKS STATION (Amuleur Regio)	LID		5009	NAVAL AUDIT SITE	4.5	2115
			3007	Auditor in Charge	65	2115
						2175
MARSTON PAVILION YOUTH ACTIVITIES	730		1521			
Asst Rec Dir Youth Community Activities	730		5052	NAVAL INVESTIGATIVE SERVICE	3	2726
						2255
MIDWAY PARK						2602
Chapel	4025		1309			2606
Community Center.	4025		1549	•		3102
Fire Department (Station 2)	4022		2383	After normal hours contact Base PMO	3	2555
				Action from a right's contact base ( MO ,	,	2000
Nursery	4025		5981	MINI		
Post Office	4014		2784	NAVAL REGIONAL DENTAL CENTER - See Page 7	)	
Theater	4014		3181			

Activity	Bldg	Phone	Activity	Bldg	Phone
NAVAL REGIONAL MEDICAL CENTER - See Page 81			PASSENGER TRAFFIC AC/S Sup SVCS	233	197 1 531 1
NAVY BOAT CREW UNIT	1409	5046	PASSPORT AGENT	66	5860
NAVY RELIEF SOCIETY					1903
Executive Secretary	41	5584			
General Offices	41	5346 5644	PAYROLL SECTION - Civilian(Compt Dept)	1005	5498
Layette Room	2627	353-4983	PEPPERDINE UNIVERSITY - See Page 33		
NCO CLUBS			PERSONAL EFFECTS & BAGGAGE	1116	3671
Manager	425	2854	DERSONNEL GETICED MCG	_	
Treasurer.	425	2752	PERSONNEL OFFICER - MCB	I 10	30 48
Hadnot Point	425	3888	After 1630	10	3057
Camp Geiger	G 550	0246			
Courthouse Bay	BB 54	7277	PET REGISTRATION Provost Marshal	3 B	1005
Montford Point NURSERY	М 100	0838	PHOTOGRAPHIC SERVICES - See Page 33		
Camp Lejeune Sitting Service	712	353-5283	•		
Midway Park	4025	59 81	PHYSICAL EVALUATION BOARD		4384
Paradise Point Nursery School	2625	353-4888	PLANT ACCOUNT SECTION Compt Dept	1005	3967
Sitting Service Paradise Point (OWC) Tarawa Terrace	2624 2455	353-4788 353-5576	TEAN ACCOUNT SECTION Completes	1005	1453
			DI 4 TAONS		
NURSERY & LANDSCAPING	1105	3446	PLATOONS Air Delivery - 2d FSSG	107	272/
			Air & Naval Gunfire — Div	106	3726
			Explosive Ordnance Disposal – 2d FSSG	307 1308	1043
0			Material Handling – 2d FSSG		5419
			Multi Channel – Div	1812	1742
				1703	1597
OFFICE MACHINE REPAIR	1101	2690	Nuclear Ordnance – 2d FSSG	SH 8	2994
			Radio – Div	307	3879
OFFICER'S CLUB - COM (Open) - See Page 19			SCAMP - Div	336	1904 5310
ONSLOW BEACH AREA	D2 114	720.2	PLUMBING SHOP	1202	3457
Aid Station	BA 114	7283	Lowell of the state of the stat	1202	343/
Beach House & Cabanas Reservations	751	5694	POST EXCHANGE - See Page 24		
OIC/NCOIC	BA 144	7273	1 001 EXCHANGE - See Fage 24		
Cabana Caretaker	BA 147	7473	POST OFFICE		
Chief Lifeguard	BA 144	7273	1031 OFFICE		
Enlisted Cabanas	BA 144	7184	Marine Corps Base		
Enlisted Pavilion Snack Bar	BA 114	7126	Postal Officer	1770	5550
Field Officers Beach House (Colonel)	BA 120	7255	rostal Officer	1770	5553
Field Officers Beach House(Maj/LtCol)	BA 146	7485	Bostol Chief	1770	2204
Mess Hall	BA 103	7161	Postal Chief		
			Cuparintendent of Units		5134
Mobile Cabana #2 Field Officers		7139	Superintendent of Mails	1770	1575
Mobile Cabana #2 Field Officers Officers Cabana (Lt/Capt)	BA 143	7385	Mail Room Inspector	1770 1770	1575 1575
Mobile Cabana #2 Field Officers Officers Cabana (Lt/Capt) Officers Pavilion Snack Bar	BA 115	7385 7127	Mail Room InspectorSuperintendent, Camp Lejeune Branch	1770 1770 1770	1575 1575 5555
Mobile Cabana #2 Field Officers		7385	Mail Room InspectorSuperintendent, Camp Lejeune Branch MEMQ/MOQ Delivery	1770 1770 1770 1770	1575 1575 5555 1715
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9).	BA 115	7385 7127	Mail Room Inspector	1770 1770 1770 1770 1770	1575 1575 5555 1715 3074
Mobile Cabana #2 Field Officers	BA 115 3A 105	7385 7127 7265	Mail Room Inspector	1770 1770 1770 1770 1770 1770 M 129	1575 1575 5555 1715 3074 6277
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO.	BA 115 3A 105 SBA 142	7385 7127 7265 7387	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range).	1770 1770 1770 1770 1770 1770 M 129 RR 10	1575 1575 5555 1715 3074 6277 7180
Mobile Cabana #2 Field Officers. Officers Cabana (Lt/Capt). Officers Pavilion Snack Bar. Beach Detachment Quarters. Pier Cabanas (E8/E9).	BA 115 3A 105 SBA 142	7385 7127 7265 7387	Mail Room Inspector	1770 1770 1770 1770 1770 1770 M 129	1575 1575 5555 1715 3074
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO.	BA 115 3A 105 SBA 142 3A 144	7385 7127 7265 <b>7387</b> 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri-Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park.	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt)  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO  ONSLOW BEACH MCX.	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park. Tarawa Terrace	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67	1575 1575 5555 1715 3074 6277 7180 7349 1057
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt) Officers Pavilion Snack Bar. Beach Detachment Quarters. Pier Cabanas (E8/E9) Duty NCO  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay). Unit #4 (Central Area). Midway Park. Tarawa Terrace.	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353—3185
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO.  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.  OUTPATIENT CLINICS (Dependents – Cir Hosp) – See	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay). Unit #4 (Central Area). Midway Park. Tarawa Terrace.  2d Marine Division Postal Officer.	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353—3185
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt)  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay). Unit #4 (Central Area). Midway Park. Tarawa Terrace.  2d Marine Division Postal Officer. Postal Chief.	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353–3185
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO.  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.  OUTPATIENT CLINICS (Dependents – Cir Hosp) – See	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park. Tarawa Terrace  2d Marine Division Postal Officer. Postal Chief. Superintendent of Mails.	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353—3185
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt).  Officers Pavilion Snack Bar.  Beach Detachment Quarters.  Pier Cabanas (E8/E9)  Duty NCO.  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.  OUTPATIENT CLINICS (Dependents – Cir Hosp) – See	BA 115 3A 105 SBA 142 3A 144 BA 101 738	7385 7127 7265 7387 7273	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park. Tarawa Terrace.  2d Marine Division Postal Officer. Postal Chief. Superintendent of Mails. Personnel LOCATOR (Tri—Command).	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt) Officers Pavilion Snack Bar. Beach Detachment Quarters. Pier Cabanas (E8/E9) Duty NCO  ONSLOW BEACH MCX.  ONSLOW COUNTY WORKSHOP.  OUTPATIENT CLINICS (Dependents — Ctr Hosp) — See	BA 115 3A 105 SBA 142 3A 144 BA 101 738 Page 82	7385 7127 7265 7387 7273 <b>7297</b> <b>5451</b>	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park. Tarawa Terrace.  2d Marine Division Postal Officer. Postal Chief. Superintendent of Mails. Personnel LOCATOR (Tri—Command).	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353–3185
Mobile Cabana #2 Field Officers.  Officers Cabana (Lt/Capt) Officers Pavilion Snack Bar. Beach Detachment Quarters. Pier Cabanas (E8/E9). Duty NCO  ONSLOW BEACH MCX  ONSLOW COUNTY WORKSHOP  OUTPATIENT CLINICS (Dependents — Crr Hosp) — See	BA 115 3A 105 SBA 142 3A 144 BA 101 738 Page 82	7385 7127 7265 7387 7273 <b>7297</b> <b>5451</b>	Mail Room Inspector. Superintendent, Camp Lejeune Branch. MEMQ/MOQ Delivery. Personnel LOCATOR (Tri—Command). Unit #1 (Camp Johnson). Unit 2 (Rifle Range). Unit #3 (Courthouse Bay) Unit #4 (Central Area). Midway Park. Tarawa Terrace.  2d Marine Division Postal Officer. Postal Chief. Superintendent of Mails. Personnel LOCATOR (Tri—Command).	1770 1770 1770 1770 1770 1770 M 129 RR 10 BB 6 67 4014	1575 1575 1575 5555 1715 3074 6277 7180 7349 1057 2784 353—3185

Activity	Bldg	Phone	Activity	Bidg	Phone
Mail Room Inspector	1770	5554	Crime Prevention Unit	4000	1793
Supply/Embark NCO	1770	1505		PT 33	2695
Personnel LOCATOR (Tri-Command)	1770	3074	MP Headquarters, Jacksonville After 1800		346-4400
Unit #1 (2d Marines).	229	3598			
Unit #2 (Hq Bn)	344	1741	Traffic Branch		
Unit #4 (Camp Geiger)	TC1003	0776	Traffic Officer	37	5312
Unit #5 (French Creek)	FC 313	5250		37	3635
		5250	Vehicle Impound NCO	37	3635
Center Hospital				37	3635
Post Office	н 1	4591		4000	1793
		4572			5348
PRESERVATION, PACKAGING & PACKING			Visitor's Information Center	312	1344
Officer in Charge	915	1628		1403	5725
	/13	5230		2.42	3723
Boxing & Crating Section	915	3187	Criminal Investigative Department		
Preservation Section	915	5224	OIC	3	2571
Vehicle Preservation Section	909	3654	Chief I nvestigator	3	2572
venicle i reservation section	707	2024	Duty Investigator	3	2571
PREVENTIVE MEDICINE - REGIONAL				PT 37	
Deputy Director	<b></b>		Evidence Custodian	3	3915
	65	5707	Evidence custouran		2571
Asst Deputy Director/Sanitation Officer	65 45	1930	Sanuica Suanast Roos-L		
Leading Chief	65	5707	Service Support Branch	30	
E-1. (000	. = . ~	1930	Supply NCOIC	3B	5494
Epidemiology/PPDs	65	2767	Motor Transport Dispatcher	43	3626
Training	65	2767	Training Support	3	2455
Health Cards	65	2767			
			Gates		
PRINTING PLANT DIVISION - See Page 34				33	1821
			Sneads Ferry Gate		7391
PROPERTY CONTROL DIVISION - See Page 34			Triangle Outpost Gate		1589
			Camp Geiger Gate		0143
PROTOCOL OFFICER	54	2804	Camp Johnson Gate		6141
PROVOST MARSHAL SECTION			Rifle Range Gate		~ 7247
			MCAS(H)/Camp Geiger		
MILITARY POLICE EMERGENCY	3	2555		122	4556639
				122	455-6111
Animal Complaints	PT 33	2695		122	455-6111
Complaints and Reports	3	2555	Main Gate MCAS (H)		0849
Stop-A-Crime	37	1666		122	455-6111
	•	1000	Main Gate Camp Geiger		0143
Emergency Conversations will be recorded for acc	uracy.		main data samp dolgon in the control of the control		0143
	,.		PUBLIC AFFAIRS		
				302	E/ E E
PROVOST MARSHAL					5655
The state of the s			Community Deletions	302	5655
Provost Marshal	•	2455	•	302	2604
Deputy Provost Marshal.	3	2455		302	5680
Provost Marshal Secretary	3	2455	rress unier	302	5680
Provest Sergeant	3	2456	Dodin TV Carling	202	5782
Provost Sergeant.	3	2455	Radio - TV Section	302	5782
Internal Affairs	3	2455	and the second contract of the second contrac	:	
			PUBLIC QUARTERS	TT 43	2577
Administrative Branch					
Admin Officer/NCOI C	3	2455	PUBLIC VOUCHER BRANCH Disbursing	1005	3051
Photo/ID/Lamination	3B	1005			
Weapons Registration	3B	1005	PUBLIC WORKS DEPARTMENT	4	»1 -
Pet Registration	3B	1005		1005	2581
Lost and Found	37	3635		1005	2581
Civilian/Retired I D Cards	3B	2727	OICC/ROICC (See ROICC Listing)		
		1005	Secretary/Admin	1005	2581
MPIS	3	2457		1005	2213
Counterintelligence	3	5702		1005	3658
Operations Department				1005	3238
			Electrical Branch 1	1005	3658
Operations Officer	3	2555		B St.	2686
Operations Chief	- 3	2555		1005	3238
Cross Country Chasers	37	2627		1005	1833

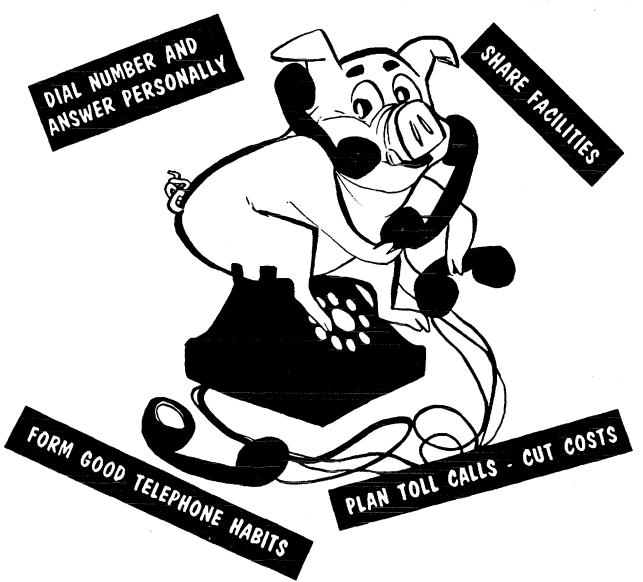
Activity	Bldg	Phone	Activity	Bldg	Phone
Plans Files & Technical Records	1005	2818	SCHOOLS - DEPENDENT	<del></del>	
Realty Specialist	1005	2818	Superintendent	855	2461
The state of the s	1000	3238	Associate Superintendent	855	2461
Specifications & Estimating Branch	1005	5507	Budget Analyst	40A	2564
Specifications & Estimating branch	1005	2201	Food Services.	4003	2133
R			Print Shop	4021	2553
N.			Property & Supply Office	40A	2564
			topolity a papping office	רטד	
RADIO STATIONS			School's AV Technician	4003	2565
Amateur Radio Station (W4LEV)	PT 5	E11/	Maintenance Foreman	855	5361
Radio Station Maintenance Chief.	24	5116	Lejeune High School	825	2461 2451
Nation Warntenance Chief	24	5802	Lejeune Guidance Supervisor	825	2451
PANCES Talling English Co. D. 21			Brewster Junior High School	40	2561
RANGES Training Facilities - See Page 31			Brewster Cafeteria	797	2561
DECERTION OF STEER			Berkeley Manor Elementary School	5400	
RECEPTION CENTERS  MCB	1	20.40	Berkeley Manor Cafeteria.	5400	2575
	1	30 48			2575
Division	10 10	3057	DeLalio Elementary School	TC 1500	0601
20 1 330,	10	1761	DeLalio Cafeteria	TC 1500	0602
RED CROSS			Stone Street Cafeteria	1943	2431
			Tarawa Terrace #1 Elementary School	1943	2431
Main Office	41	2173	Tarawa Terrace #1 Cefeteria	TT 60	2489
		2182	Tarawa Terrace #1 Cafeteria	TT 60	2489
		2720	Tarawa Terrace #2 Elementary School	TT 48	2588
		5159	Tarawa Terrace #2 Cafeteria	TT 48	2588
After Duty Hours, Holidays, Sat & Sun		347-5191	*******		
			SCHOOLS - MILITARY		
REFRIGERATION SHOP	1202	3235	Admin Procedure - Tri-Command	408	3361
			Combat Engineer.	BB 86	7328
REGISTERED PUBLICATIONS - MCB	1	3563	Communication — FMFLant	TC 1038	0415
			Disbursing	M 407	6246
REPORTS & MANAGEMENT	1005	5521	Electronic - FMFLant	TC 1028	0121
			Engineer Equipment	B3 93	7453
RESERVE INFORMATION OFFICE	57	2051	Food Service	M 324	6256
			Gas Chamber - NBC School	TC 630	0365
RESERVE SUPPORT UNIT Hq Bn MCB - See Pag	e 40		Human Relations School	430	1092
			MCSSS Instructor Training	M 422	6167
RESIDENT OIC OF CONSTRUCTION					6117
OIC/ROICC	1005	2581	Motor Transport	M 611	6193
Asst OICC/ROICC	1005	2581	MVOC	M 522	6126
Manager Inspection Branch	1005	2581	NBC School - FMFLant	TC 1143	0116
Manager Contracts Branch	1005	2581			0433
Construction Inspection Br Hadnot Point	1005	2581	Staff NCO Academy	M 215	6284
Public Works Department (See PW Listing)					
_			SCOUTING COORDINATOR	2627	2276
RIFLE RANGE DETACHMENT -See Page 40					
_			SECOND MARINE DIVISION - See Page 41		
ROADS & GROUNDS	1105	2636			
			SELF SERVICE CENTER		
			Officer in Charge	1606	5896
<b>S</b>			Accounting & Information	1606	3491
			Blank Forms	1606	1667
			Item Manager	1606	2306
S&C FILES	1	3563			
	•	••••			
SAFETY OFFICE			SERVICE CLUBS		
Safety Manager	1403	5725	Air Station	208	455-6661
		3891	Area No 2	225	3814
Occupational Safety	1403	5725	Area No 5	524	5294
Traffic Safety Specialist	1403	5725	Camp Geiger	TC 614	0270
· · · · · · · · · · · · · · · · · · ·		J. LJ	Camp Johnson	M-134	0709
SAL VAGELo	203	5156	Central	62	1942
SANITATION - REFUSE AND GARBAGE	1105	2636			2872
Are one anneuse		2030	Courthouse Bay	BB 54	7397
SASSY	1108	5207	French Creek.	FC 318	1446
VC. W. 1	1100	52 07	Industrial Area Enlisted Club.	1006	3609
			Onslow Beach.	BA 114	7126
			Rifle Range		
			Talle Manye	. NN 49	7146

Activity	Bldg	Phone	Activity	Bldg	Phone
SERVICE SUPPORT SCHOOLS - See Page 38			SUBSISTENCE BRANCH		
			Officer in Charge	1116	2101
SHOP STORES BRANCH	1201	3413	NCOIC	1116	3230
SITTING SERVICE			Nonperishable Stores	1116	3230
Camp Lejeune Sitting Service	712	353-5283	r ensuable stoles	1300	3428
Center Hospital.	H1	4682	SUPPLY DEPARTMENT		
Nursery Midway Park	4025	5981	Assistant C/S Supply Services	1116	2535
Nursery Tarawa Terrace		353-5576	Asst to AC/S Supply Services	1116	2535
Paradise Point (OWC)	2455 2624	353-3576 353-4788	Secretary	1116	2535
t aradise i onit (Owe)	2024	JJJ-4700	Administrative Officer	1116	2507
SVEET DANCE Supplied Samples	PT 5	3889	Supply Services Chief	1116	2507
SKEET RANGE Special Services	FIJ	3007	Budget Analyst	1116	2507
SPECIAL SERVICES			Management Analyst	1116	2507
Athletic Utticer	751	2061	management many street, treet,		2507
Athletic Chief	751	3125	SWIMMING POOLS		
Bookkeeper	751 751	5195	Area 2	236	2024
			Area 5	540	2027
Camper Trailer Section	1113	1368	Montford Point	M 139	6281
Cash Collector	751	5824	Montiona i omer.	IVI 427	0201
Custodian Recreation Fund	751	5824			-
Golf Course Pro Shop	1915	5445	· <b>T</b>		
Maintenance Supervisor	1765	2819			
Motor Transport	1120	5236			
Personnel Office & Payroll	751	3762	TARAWA TERRACE		
Property Control Supervisor	1765	3863		2701	5252
Procurement Office	751	1455	Chaplain	2791	5353
Recreation Director	751	2094	O-mark-	0.455	2967
Assistant Recreation Director	751	2094	Commissary	2455	2787 2074
Reservation Office	751	3535	Community Conta-	TT 44	
		5694	Community Center	TT 44	2253
Tickets, Campers, Fishing,			Consolidated Package Sales	2471	2275
Sea Shells, Campsites,			Housing Office	TT 43	2577
Beach Cabanas, Trailers, Area #5 Picnic Area, and			NurseryPost Office	2455	353-5576 353-3185
Camp Knox Picnic Area			T. V. SERVICE		
Assistant Special Services Officer	751	2106	TAXI SERVICE		
Special Services Chief	751	3794	Commercial	235	3674
Stables	1944	2238	Military	1407	1639
Storeroom.	1765	3863	TEEN LOS CLUB		
Women's Exercise Room,	S-1725	1560	TEEN AGE CLUB	730	1521
Duty NCO Field House	751	5694			
CD COLL CERVICES AFFICES	751	0100	TELEPHONE ACCOUNTS	1104	2531
SPECIAL SERVICES OFFICER	751	2108	TELEPHONE OFFICE		
STABLES	1044	2020	Telephone Officer	1104	2531
STADLES	1944	2238	Wire Chief	1104	2531
STAFF DUTY OFFICER MCB	,	3530	Telephone Accounts	1104	2531
STALL DOLL OFFICER MCD	1	2528	Hours 0830 – 1530 Mon thru Fri	1104	1(1)
STAFE HIDGE ADVOCATE & D. C.			Directory Information	1	1115
STAFF JUDGE ADVOCATE - See Page 35			Telephone Chief Operator	1	3400
STAFF NCO ACADEMY	M 215	(115	Telephone Repair	ì	1114
STATE NOO ACADEMI	M 213	6115		•	
STAFF NCO CLUBS			THEATERS		
Treasurer	322	2839	NCOIC/Information	19	1759
Hadnot Point Annex	322	1007	After Hours	19	2785
		1534	Camp Drive In	660	3242
Camp Geiger Annex	TC-91		Camp Geiger	TC 900	0265
Courthouse Bay Annex	BB 27	7462	Courthouse Bay Indoor	BB 2	7449
Montford Point Annex	M 240	6180	French Creek	FC 317	1075
		6123	Midway Park	4014	3181
Onslow Beach Annex	BA 113		Montford Point Drive-In	SM 175	6120
		, ,	Naval Hospital	H 1	4622
			Film Exchange	19	2785
STAFF NCO QUARTERS, BSQ – See Page 17					
STAFF NCO QUARTERS, BSQ – See Page 17 STEAM PLANT	1700	3627	THRIFT SHOP(SNCO Wives Club)	1403	5591

	Bldg	Phone	Activity	Bldg	Phone
TIME OF DAY AND TEMPERATURE		1117	F-18 Range		2003
			G-4 Range		3986
TOWERS			G-5/G-5A Range		7438
Bear Creek		1740	G-7 Range		3258
Brown Creek		7252	G-8 Range		2013
Fire Tower 1 – Hubert		1456	G-9 Range		2013
Fire Tower 2 – Sneads Ferry		7491	I-1 Range		7328
Fire Tower 3 – Dixon		347-1977	I-2 Range		7328
Fire Tower 4 - Deppe Hwy 17		347-3218	J-2 Range		7236
Fire Tower 5 - Engineer Stockade		3956	K-211 Range		0752
North Tower - Onslow Beach		7441	K-212 Range		0752
South Tower - Onslow Beach		7425	K-301 Range		0852
			K-302 Range		0561
TRADER	751	3794	K-303 Range		0561
			K-305 Range		0661
TRAFFIC BOARD - Base Inspector	4000	5807	K-309 Range		0661
·			K-315 Range		0775
TRAFFIC COURT	4000	1951	K-317 Range		0775
		1582	K-319 Range		0875
			K-321 Range		0875
TRAFFIC INVESTIGATOR ProvMar	37	3635	K-322 Range		0656
			K-323 Range		0656
TRAINING ALLOWANCE POOL	1317	5814	K-325 Range		0556
		1000	K-402 Range		0852
	*		K-405 Range		0755
TRAINING Civilian Personnel	33	1539	K-406/K-406B Range		0755
			K-407 Range		0855
TRAINING FACILITIES SECTION			K-408 Range		0855
			NBC Training Trail		3518
Training Facilities Officer	ì	5803			
Training Facilities Chief	1	3920	TRAINING & AUDIOVISUAL SEPPORT CENTER - See	Page 33	
Range Control Duty Officer	ī	3064		•	
Range Control	ī	3064	TRIANGLE OUTPOST GATE		1589
Scheduling NCO.	ī	3064			,,,,,
Supply Admin	ī	3920	TYPEWRITER REPAIR	1101	2690
Range Maintenance - Mainside	1410	3542			
manioration manioration	-11-0	5211			
Range Maintenance Work Crew	1404	3331	U		
EOD Officer	G 480	0118			
	G 100	0382			
Navy Boat Crew	1409	5046	USO Jacksonville		455-3411
WBGT Index Reading Station #1	1409	5046			
CS Chamber	934	3518	UTILITIES OFFICER Base Maintenance	670	5161
Area 5 Training Tank (Swimming Pool)	540	2027			
Bear Creek Tower (Range BT-3)	510	1740			
Brown's Tower (Range BT-3)		7252	V		
Onslow North Tower (Range BT-3)		7441			
Onslow South Tower (Range E-1)		7425	VETERINARIAN DIVISION - See Page 35		
Combat Town		7452	•		
Observation Post #2 (Range G-10)		5296	Veterinary Animal Clinic		
A-1 Range.		6254	For Appt (Monday Only)	TT 2451	1009
BO-12 Range		0758		2.52	1007
D–6 Range		3738			
D–9 Range		3889	VISITOR'S INFORMATION CENTER	812	1344
				012	1344
D-29 Range		2002	w		
D-30 Range		2009	"		
F-2 Range		2007			
F-3 Range		2001	WATER PLANT & LABORATORY Base Main.	20	5988
F-4 Range		2007 2007			2,50
		2007	WEATHER BUREAU - MCAS(H)		455-6322
F-6 Range		2011			
F-9 Range F-10 Range		2006	WET BULB READING STATION 1	1	3920
F-10 Ranue		2006		•	J/ 24
		2005			
F-11 Range					
F-11 Range F-12 Range		2004	Y		
F-11 Range		2011	x		
F-11 Range F-12 Range			X		

# DON'T BE A TELEPHONE HOG

USE-don't ABUSE official telephone service



# MARINE CORPS BASE

Organization	Bldg	Phone	Organization	Bidg	Phone
HEADQUARTERS MARINE CORPS BA	SE		Education Officer - Division	63	1382
· 				338	2158
COMMANDING GENERAL	1	2526	Education NCOIC - 2d FSSG		1051
Aide-de-Camp	1	2527		63	3091
Secretary to the Commanding General	1	<b>2</b> 526	Education Officer - MCAS(H)	312	455–6153
Sergeant Major	1	2603	Constal Constant Community O. H.		
			Coastal Carolina Community College - Jacksonvi		455-1221
INSPECTOR	1	1850	East Carolina University Director	63	5864
		2718			5865
Base Traffic Board	4000	5807	Golden Gate University	63	2736
Base Traffic Court	4000	1951	Pepperdine University	63	2355
		1582	Southern Illinois University	H 1	5575
Military Magistrate	1041	1979	University of Southern California	63	5688
		2,	T		
INFORMATION COORDINATOR, MCB	1	3605	Training & Audiovisual Support Center		
			Training & Audiovisual Support Officer	54	5416
CHIEF OF STAFF	1	2523	Training & Audiovisual Support Chief	54	5416
		2528	Visual Information Specialist	54	5416
Staff Secretary	1	2523	Photographic Officer	54	1972
Staff Duty Officer (After Working Hours)	ī	2528	Duty Photographer (After Hours)	54	3733
The state of the s	•	2527	Audiovisual Library	54	1516
Staff Duty NCO	1		Customer Service Desk	54	1593
Stati buty NCO	7	2526	TAVSC Supply Officer	54	1516
ASSISTANT CHIEFS OF STAFF			TAVSC Electronic Repair	1404	5479
ASSISTANT CHIEFS OF STAFF					•
MANPOWER SECTION			Training Facilities		
Assistant Chief of Staff Manpower	1	2220	Training Facilities Officer	1	5803
Secretary to AC/S Manpower	1	2385	Training Facilities Chief	1	3920
Asst Assistant Chief of Staff Manpower	1	2220	CS Chamber	934	3518
Admin Chiet	ī	2218	Range Maintenance	1410	5211
Administrative Control Unit	1101	3037			
Administrative conduct office	1101	2708	LOGISTICS DEPARTMENT		
Deputy EEO Officer	1	2385	Assistant Chief of Staff Logistics	1116	2535
Manpower Utilization Specialist	ì	2385	Secretary	1116	2535
			Asst to ACofS Logistics	1116	2535
Management Assistance Office	12	5521	Civilian Personnel Office	1116	3500
PERSONNEL SERVICES SECTION					3,000
Assistant Chief of Staff Personnel Services	1	2524	Financial Section	1116	2535
Secretary.	i	2524			
Asst Personnel Services Officer	1	2524	Operations Section		
	_		Operations Officer	1116	2536
Personnel Services Coordinator	1	2524	Assistant Operations	1116	2536
Administrative Chief	1	2524	Secretary	1116	2536
Family Assistance Officer	41	5417			
	_	1362	Inventory Supervisor	1011	5180
Special Projects Officer	1	2524	Commissary Division		
TRAINING SERVICES SECTION			Hours of Operation	1200	5239
TRAINING SERVICES SECTION					
Assistant Chief of Staff Training	1	5326	Commissary Officer.	1301	2836
Asst to Asst Chief of Staff Training	1	5720	Secretary	1301	5561
Secretary to AC/S Training	1	5326	Accounting	1301	2640
Operations Chief	1	5720	Administrative Office	1301	2626
Training Officer	1	3482	Purchasing	1301	5576
Training Chief	1	5276			2231
Schools NCO	1	5276	Warehouse	1201	558
Drug/Alcohol NCOIC	14	5733	Commissary Store (Hadnot Point)		
Disaster Control Center (When Activated)	i	3520	Commissary Store Mana œr	1200	2896
The state of the s	•	5326	Collection Agent	1200	2172
		2020	Grocery-Produce Department Manager	1200	2381
Education Offices			Meat Department Foreman	1200	2381
		PP10	Produce Department Foreman	1200	2381
Education Services Coordinator – MCB	63	5512	Receiving	1200	2381
Education Chief	63	3091	Sales Area Supervisor	1200	2172
Administrative Assistant	63	3091		1200	2112
BSEP Coordinator	63	2391	Tarawa Terrace Commissary Store	2455	
DANTES Testing Center	63	3091	Commissary Store Manager	2455	2787
			Collection Agent	2455	2787
			Grocery/Produce Manager	2455	2787
			Meat Department Foreman	2455	2074

Produce Department Foreman	2455	2074	Subsistence Branch		
Pecciving					
Mecelanid	2455	2074	Officer in Charge	1116	2101
Sales Area Supervisor	2455	2787			2054
ranch Commissary Store (MCAS)(H)			Perishable Stores	1300	3428
Commissary Store Manager	414	455-6395	Non-Perishable Stores	1116	3134
Meat Department	414	455–6396	Systems Management and Development	1011	2628 1713
Contracting Division					3182
Contracting Officer	1211	5520			2821
Contracting Officer/Small Business	1211	5962	Technical & Research Branch		
NCOIC	1211	5813	Officer in Charge	1011	5917
Imprest Fund Cashier.	1211	2165	Federal Group 10–46	1011	5163
Buying Unit 1	1211	2186	Federal Group 47–56	1011	5163
Burning Unit 2	1011	5095	Federal Group 58–66	1011	5172
Buying Unit 2	1211	2332	Federal Group 67-99	1011	5172
Oncentions (Document Control	1011	5044	Food Service Division - MCB		
Operations/Document Control	1211	5845		111/	271/
		2390	Food Services Officer - MCB	1116 1116	2716
DSSC Division			Base Food Technician	1116	1567 1567
Officer in Charge	1011	E7( )	Accounting Section.	1116	3101
Anter in Gharge	1011	5762	Collection Agent	1116	3101
Assistant OIC	1011	<b>5301</b> 5762	Financial Status of Dining Facilities.	1116	3101
NCOIC	1011	3565	Man/Day Fed Reports	1116	3101
	1011	לטכל	Food Service Property Officer	1116	2851
mmunition Branch					2031
Officer in Charge	SH 7	2114	Laundry Division		
NCOIC	SH 7	3812	Laundry Plant Manager	1500	5628
Main Ammo Dump Guard	1117	1442	Laundry General Foreman	1500	5628
	FAD-1	2949	Laundry Chief	1500	1595
Clothing Branch			Supply Clerk	1500	1595
Officer in Charge	1212	2802	Receiving (Gov't Linen)	1500	3504
		3170	Receiving Department (Personal Bundles)	1500	5168
NCOIC	1212	3170	Shipping (Gov't Linen)	1500	3251
Bulk Storage	1212	1678	Shipping Department (Personal Bundles)	1500	5168
Camp Geiger Clothing Store	TC 732	0459	Camp Geiger Call Office	TC 834	0552
Customer Service Branch	1011	5406 3232	Camp Geiger Rec/Ship (Gov't Linen)	TC 834	0552
Pata Transcribing Branch			Printing Plant Division		
DIC	1011	3310	Officer in Charge	80	5919
inancial Branch	1011	1654	Supervisory Printing Specialist	80	5131
elf Service Center Branch			Delivery and Supply	80	1564
Officer in Charge	1606	5896	B		
NCOIC	1606	3491	Property Control Division		
Blank Forms Section	1606	1667	Base Property Control Officer.	1101	5513
Warehouse	1606	2306	Assistant Base Property Control Officer	1011	3061
hop Stores Branch Officer in Charge	1201	2410	Supply Chief Custody Unit	1101 1101	3061
Officer in Charge	1201	3413	Issue Control Section		3063
Black Oil Pump House	1704	1.470	Office Machine Repair Shop.	1101 1404	3062
Camp Geiger Fuel	1706 TC 364	1422	Office Machine Repair (Service Calls)	1101	5951
Fuel Issue (MMLY20)	1002	0269	Procurement Section	1101	2690 3061
Heavy Equipment (MMLV69)	780	51 <b>%</b> 5913	Receipt Section.	1101	3061
Lot 140 (Paint Locker)	Lot 140	1712	Warehouse	1101	3804
Lot 201 (MMLV72)	Lot 201	1625	nationous contraction of the con	1316	1548
Lumber Yard (MMLV70)	1302	5105	Washer/Dryer Repair Service Calls	1101	2651
Maintenance (MLV65)	1201	1975		1101	1,007
Maintenance BPA	1201	5414	Traffic Management Division		
Maintenance Receiving (MMLV65)	1201	1789	Transportation Officer	1011	2541
Maintenance Issue Counter (MMLV65)	1201	1353	Claims Unit	1011	2654
Maintenance Projects	1201	3684	Quality Assurance Unit	1011	2543
MCAS (ML V73)	AS 124	455-6529	Receiving Unit	1011	3081
Packing & Preservation (MML V67)	915	5224	Shipping Unit	1011	2647
					2654
Packing & Preservation (MMLV67)	915	3187			2034
Packing & Preservation (MMLV67) Tarawa Terrace (MMLV71). Tire Shop (MLV66).	915 TT 49	5885	Personal Effects & Baggage Self-Move Unit	1011	3671

	Organization	Bldg	Phone	Organization	Bldg	Phone
	Freight Transportation Section			Enlisted Receiving	1	3048
	General Foreman	1011	2542	Order Writing Section	1	3048
	Freight Processing Unit	Lot 201	3551	Area Aptitude	1	3048
<del> </del>	Freight Receipt/Claims	1011	2542	Schools/Reservists Section	1	3048
	Freight Shipment	1011	2542	After 1630	10	3057
	Warehouse Receiving Unit	1011	5245			
	Warehouse Shipping Unit	915	1585	STAFF JUDGE ADVOCATE OFFICE		
**************************************	Passenger Section	233	5311	Staff Judge Advocate	66	567 5
			1971	Asst Staff Judge Advocate	66	5675
				Secretary	66	5675
- · · · · · · · · · · · · · · · · · · ·	Receipts Control Branch			Military Affairs Officer	66	5383
Address of the second	Officer in Charge	1011	5906	Legal Administrative Officer	66	5177
	NCOIC	1011	5906	Legal Chief	66	5177
	Contract Handling Section	1011	3140	Review Section	66	5675
	Financial Edit Unit	1011	2798	Trial Counsel	66	3619
	Inspection	1011	3106	Defense Council	,,	2704
	Issue Office/Warehouse	1011	3465	Defense Counsel	66	5687
	MML-999.	1011	1507	State Court Demontage and the state of the s		3218
NAME OF THE PARTY	ক লৈ উপায়েক্তিক বিভাগে ক্রিক্তিয়ালে ক প্রিক্তির হৈছিল কি প্রায়েক্তিক বিভাগে প্রায়েক্তিক বিভাগে প্রায়েক্তি প্রায়ুক্তিক ক্রিক্তির বিভাগের স্থান্তর স্থান্তর স্থান্তর প্রায়ুক্তি করিছিল ক্রিক্তির ক্রিক্তির বিভাগের প্রায়ুক্ত			Court Reporters	66	1058
· · · · · · · · · · · · · · · · · · ·	Veterinarian Division			CIVII Process	66	5384
<del></del>	Veterinary Food Inspection Service	1300 1300	1846 5915			5860
				HEADQUARTERS BATTALION		
	FACILITIES SECTION	erine englere		and the second of the second o		a sign of a
	Assistant Chief of Staff Facilities	1	3034	AANUTURNIA APPIAPA	- PA	- F788
i <del>se</del> a a company	De Ligis esque samena que den fraten no de ensas espísiros dino, de lamina ou cuenca.		2544	COMMANDING OFFICER,	50	5403
	Secretary	1_	3034	Executive Officer	50	338
	Asst. to Asst. C/S Facilities	_1	3034	Sergeant Major	50	33 8
	Facilities Chief	1	3034	Adjutant	50 UD 53	3381
	Equipment Maint. Management Officer	1	3034	Bn. Admin	HP 53	2016
d e o	Facilities Plans/Programs Officer	1	3034		ro	5262
				S-3	50 50	1802
TEST TO THE STATE OF	COMPTROLLER SECTION			S-3 Chief	7	3773 3852
g= 1	Assistant Chief of Staff Comptroller	1	2 427	Administrative Chief	, 50	338
Mala	Secretary	1	2 427	Career Planner	50 50	.ەدد 155
	Deputy Comptroller	1	2 427	Central Files	50	338
	Accounting Officer	1005	2373	Chaplain	60	2630
	Budget Officer	1005	3022	Dining Facility	9	5244
Maria de la compania del compania de la compania de la compania del compania de la compania del compania de la compania de la compania de la compania del compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del compania d	Disbursing Officer	1005	2815 3051	Thing racinty		1737
	Claring Design			Legal Officer	50	387
	Internal Review		2327 1779	Legal Chief	50	5128
			1779	Police Sergeant	7	1079
	ADJUTANT SECTION			Battalion Special Services	7	1079
	Adjutant SECTION Adjutant		2414	Supply Officer	<u> </u>	149
	Secretary	1	2414	Supply Chief	11	149
	Administrative Chief	1	3031	Supply Storeroom	11	373
	Absentee Processing Unit	7	3031	Duty Clerk	50	338
Make	Administrative Discharge Unit	1	3031	Staff Duty Officer	50	338
	Casualty Assistance Officer	1	2414	Officer of the Day	50	338
S.,	Mail and Files	1	3806	Officer of the bay	30	000
	Classified Files Unit	1	3563	HEADQUARTERS COMPANY	UB FE	
				Commanding Officer	HP 55	294
	Administrative Procedures Section			Executive Officer	HP 55	294
	Admin Procedures Officer/NCOIC	408	2202	Tst Sergeant.	HP 55	325
MERCHANISTON A TOURSTONED BORDISC COUNTY OF WITHOUT WAS	Tri-Command Admin School	408	3361	Gunnery Sergeant	HP 55	3250
	Admin RIC Insp	408	3361	Duty NCO.	HP 55	178
	Admin Discharge Section.	408	3361	Duty NCO	HP 53	526
AND AND AND AND AND AND AND AND AND AND	BASE POSTAL OFFICER - See Page 27			SUB UNIT 2 (CASUAL SECTION) Officer in Charge	60	230
CONTRACTOR OF THE CONTRACTOR O				and the state of t	60	207
Market - No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	PERSONNEL SECTION		2712	Administrative Chief.	60	207
	Personnel Officer		2712	Company Gunnery Sergeant	60	207
ATT OF SOME SERVICE	Assistant Personnel Officer	1	3048			5262
	Personnel Chief		3048	Duty NCO	HP 53	カノト

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Organization	Bldg.	Phone	Organization	Bldg.	Phone
MILITARY POLICE COMPANY	······································		Emergency Maintenance	G 530	0221
Commanding Officer	HP 51	1614	Area Guard Officer/Chief	G 521	0177
Executive Officer	HP 51	1614	Post 5		0134
1st Sergeant.	HP 51	5210	Sqt_of_the_Guard/Commander_of_the_Guard	G 521	0177
Company Gunnery Sergeant	HP 51	5210	Special Services Officer	TC 748	0330
Duty NCO	HP 51	1614	Area Maint/Police Shed NCOIC	TC 832	0245
			Area Maintenance Tool Room	TC 832	0 245
SUPPORT BATTALION			Bank, First Citizens Bank & Trust Company Manager	TC 900	0500
COMMANDING OFFICER	1011	220.4	Charlain	TC (01	0704
	1011	2384	Chaplain	TC 601	0794
Executive Officer	1011	2384	Protestant Chaplain	TC 601	0778
Adjutant/Legal Officer	1011	5606			
Sergeant MajorS-1	1011	5221	Clothing Sales	TC 732	0459
Personnel Officer	1011	3130	Dining Facility Section		
		5721	Mess Officer/Food Service Officer	G 640	0369
Admin Chief	1011	5721	Mess Sergeant	G 640	0438
Personnel Chief	1011	3130	Duty Cook	G 640	0438
Unit Diary	1011	3154	Dispensary	V	V-7-70
SRB Clerk	1011		Medical Officer	C 770	٨٥٥٦
SRD Clerk		3154		G 770	0595
Separation Clerk	1011	1341	Leading Chief	G 770	0371
Legal Clerk	1011	3130			0105
Career Planning NCO	1011	1755	Physical Examination Section	G 770	0322
S-3			Health Records	G 770	0371
Training Officer	1011	1936	2d FSSG Health Records	G 770	0322
Training Officers	1011		Sick Call Information	G 770	
T-::- Oli-f		5017			0322
Training Chief	1011	1936	Laboratory	G 770	0371
Bn Drug and Alcohol Counselor	1340	<b>155</b> 3	Pharmacy	G 770	0322
S-4			Podiatry	G 770	0595
S-4 Officer	1011	5247	X–Ray	G 770	0371
S-4 Chief	1011	5247	Duty Corpsman	G 770	0595
			Emergency Ambulance Assistance	_	
Supply Officer	1117	5275		G 770	0136
Supply Chief	1117	5275	Permanent Personnel Information	G 770	0371
Bn Armory	1117	5275	Dental Officer	G 770	0740
Warehouse Chief	1117	3107			0657
Dining Facility	1209	3819	Dental Appointments	G 770	0740
Officer of the Day	1011	5606	Dental Trailer	TC-754	0496
SUPPORT COMPANY			EOD Officer	G 480	0118
Commanding Officer	1140	2969		• .••	0382
Executive Officer	1340		Laundry, Camp Geiger Annex	TC 834	0552
		1553	Edulary, Jump Gorger American	10 034	0552
1st Sergeant	1140	5297	W 1 A		
Company Gunnery Sergeant	1140	5297	Marine Corps Exchange		
Sgt of the Guard/Main Ammo Dump	1117	1442	Barber Shop	TC 910	0744
Duty NCO	1140	5297	Gas Station	TC 912	0690
Duty NCO	1340	1553	Geiger Exchange	TC 910	0793
,	-2-10	در د.	Service Club	TC 614	0270
CORRECTION COMPANY					
			NCO Club	G 550	0591
Commanding Officer	1041	5920			
Executive Officer	1041	1308	Pistol Range	BO 012	0758
Sergeant Major	1041	5148			
Career Planner	1041	1479	Post Office	TC1003	0776
Training				101003	0770
	1041	1479	Description of Manager Continue		
Duty NCO	1042	1562	Provost Marshal Section		
			Assistant Provost Marshal	122	455–6111
			Desk Sergeant	122	455-6111
CAMP GEIGER			Main Gate	TC 306	0143
AREA COMMAND			North Gate	Post 10	0370
			Special Services (Also see MCX)		
COMMANDING OFFICER	TC 704	0114	Special Services NCOIC	TC 748	0330
Executive Officer	TC 704	0585	Special Services Rec Room	TC 749	0170
			Special Services Gym		
Sergeant Major	TC 704	0585	Special Sciences Gymeren in the contract of th	TC 775	0131
Deputy for Camp Affairs	G 530	0216	C: ((A)   OO   O    /		
NCOIC	G 530	0194	Staff NCO Club	TC 910	0274

Organization	Bldg.	Phone	Organization	Bldg.	Phone
			Headquarters Company	-	-
			Commanding Officer	TC 853	0300
FIELD MEDICAL SERVICE SCHOOL			Personnel Officer	TC 853	0231
			1st Sergeant	TC 853	0137
			Admin Chief	TC 853	0452
Commanding Officer	M 105	6203	: :		0137
Executive Officer	M 105	6202	:		
Command Master Chief	M - 105	6203	Company 'A'		
Administrative Officer	M-105	6202	Commanding Officer	TC 839	0327
Assistant Administrative Officer	M-105	6237			
Administrative/Record Officer	M-105	6237	Company 'B'		
Armory	M 308	6149	Commanding Officer	TC 827	0235
Chief Master at Arms	M 311	6138			
Barracks Master at Arms	M-311	6138	ULBINE SARRE PUBLICANE CON		
Marine Supply	M 314	6279	MARINE CORPS ENGINEER SCH COURTHOUSE BAY AREA	OOL	
Medical Supply	M 151	6240	AREA COMMAND		
Military Training Officer	M 104	6291	AILEA COMMAND		
Student Barracks	M 311 M 318	6183 6252	•		
Training Officer	M 104	6122	AREA ACTIVITIES		
rianning Officer	W 104	6291	AREA ACTIVITIES		
Assistant Training Officer	M-104	6291	AREA COMMANDER	BB 28	7201
Additional Training Officers 111111111111111111111111111111111111	141 - 104	0882	Assistant Area Commander	BB 28	7136
Training Section	M 104	6291	Area Sergeant Major	BB 28	7136
Training Support Branch	M-151	6240	Adjutant	BB 28	7 200
Chief of the Day (Duty NCO)	M-311	6138	Administrative Chief	BB 28	7134
			Bank		7317
			BOQ Office	BB 45	7384
FIELD SUPPLY MAINTENANCE & ANALYSIS	OFFICE O	NE	Residents	BB 45	7378
			Boathouse	BB 46	7386
			Chaplain	BB 16	7304
Officer in Charge	M 129	6213	Cleaning/Pressing Shop	BB 16	7415
Asst Officer in Charge	M 129	6213	Commissioned Officers Mess Annex(Open)	BB 45	7372
NCOIC	M 129	6162	2d FS SG Dental Trailer	A-3	7474
			Dining Facility	BB 7	7148
			Disbursing	BB 8	7258
UNITED STATES MARINE CORP			Dispensary		728
INFANTRY TRAINING SCHOOL	-		Medical Officer	BB 10	7461
			Area Medical Chief	BB 10	7206
Commanding Officer	TC 846	0206	Records Office (During Working Hours)	BB 10	7365
Executive Officer	TC 846	0710	records office (burning policing pours), , , , , ,	DD 10	7338
Sqt Major.	TC 846	0285	Dental Officer	BB 10	7147
Adjutant/Legal	TC 846	0179	Duty Corpsman (After Working Hours)	BB 10	7338
Admin Chief	TC 846	0179	Enlisted Service Club	BB 54	7397
Officer of the Day	TC 846	0206	Fire Station (Station 7)	BB 8	7221
•			Mail Room/Reproduction	BB 208	7175
Training Section			Marine Corps Exchange	BB 3	7357
Director of Training	TC 847	0344	Police Shed	BB 31	7262
•		0263	Post Office	BB 6	7349
Chief Instructor	TC 847	0344	Service Station	BB 177	7345
Operations Chief	TC 847	0344	Special Services/Physical Fitness Center	BB 30	7368
Training Aids	TC 846	0285	Staff NCO Club Annex	BB 27	7462
Weapons Instructors Section	TC 847	0253	Theater	BB 2	7449
			Area Guard	BB 225	7325
Support Section			Commander of the Guard	3B 225	7325
Logistics Officer	TC 840	0348	Officer of the Day	BB 28	7200
Logistics Chief	TC 840	0461	BEIRAMISTERS WIRING CARRE TURNITTE CO	Noc.	
Supply Officer	TC 817	0431	HEADQUARTERS MARINE CORPS ENGINEER SC	HUUL	
Supply Chief	TC 817	0449	CONTAINING OFFICE		
Motor Transport Chief	TC 809	0478	COMMANDING OFFICER	BB 28	7201
Motor Transport Office	TC 809	0260	Executive Officer	BB 28	7136
Motor Transport Dispatcher	TC 871	0373	Staff Duby Officer	BB 28	7136
Armory/Comm Section	TC 816	0378	Staff Duty Officer	BB 28	7200
	r 170	0322			
Medical Section	G 770		Administrativa Donastment		
Medical Section	GIIV	0371	Administrative Department Director/Adjutant	BB 28	7200

Organization	Bldg	Phone	Organization	Bldg.	Phone
MARINE CORPS ENGINEER SCHOOL (Continued)			Maint. Management Section	BB 208	7481
Admin	BB 250	7470	Operations Section	BB 51	7370
Admin Chief	BB 28	7134	Power Train Section	BB 50	7353
Personnel Officer	BB 250	7151	Welding School	BB 52	7269
Personnel Chief	BB 250	7151	Duty NCO (After Working Hours)	BB 259	7135
Order Writing	BB 250	7470			
Personnel Records	BB 250	7151	UTILITIES INSTRUCTION COMPANY		
Legal Chief	BB 250	7470	Commanding Officer	BB 38	7303
Locator	BB 28	7134	Executive Officer	BB 38	7321
Career Planner	BB 30	7222	1st Sergeant	BB 38	7321
	22 %	7101	Administrative Clerk	BB 38	7321
Disbursing Officer	BB 8	7258	Academic Department	BB 38	7303
Disbursing Chief	BB 8	7207	Electronic Equipment Repair	BB-138	7268
Staff Duty Clerk	BB 28	7134	Electronic Section	BB-139	7243
July 200 Ordinates	DD 20	7154	Plumbing Section	BB 32	7145
Academic Department			Refrigeration Section	BB-49	7286
Director of Instruction	BB 28	7100	Duty NCO	B3 32	7135
Academic Operations Chief	BB 28		outy neo	00 72	ננגו
Course Programmers	BB 28	7468 7468			
			MARINE CARRESTENANT CHRONET CO.	1001.5	
Education Advisor	BB 250	7151	MARINE CORPS SERVICE SUPPORT SCI	100F2	
Student Records	BB 28	7134	CAMP JOHNSON AREA		
Academic Training Support Unit	BB 15	7238	AREA COMMAND		
Training Officer	BB 15	7153			
Training Aids Support Section	BB 15	7360			
			AREA COMMANDER	M 131	6101
Support Department			Assistant Area Commander	M 131	0503
Director	BB 28	7410	Area Sergeant Major	M 131	618 <del>2</del>
Fiscal Officer	3B 31	7326	Area Facilities Officer	M 131	0626
Fiscal Chief	BB 31	7347	Airline Ticket Office	M 419	0711
Logistics Chief	BB 28	7275	Camp Johnson Branch Clinics		
Supply Officer	BB 31	7326	Medical Officer	M 128	6104
Supply Chief	BB 31	7313	Check In/Appointments	M 128	6175
Property Section	BB 31	7347	Physicians Assistant	M 128	6104
Engineer Equipment Maintenance Unit	BB 51	7233	Laboratory	M 128	6238
		7137	Pharmacy	M 128	6154
Construction NCOIC	3B 48	7486	BOQ (Lobby)	M 231	6179
Base Motor Transport Sub Pool	BB 73	7394		M 232	6221
Tool Room	BB 51	7233		M 233	6184
			BOQ Duty NCO	M 231	6253
HEADQUARTERS AND SERVICE COMPANY			Chaplain	M 116	0507
Commanding Officer	BB 255	7315	Dental Officer	M128	6288
Ist Sergeant	3B 255	7364	Disbursing Officer	M 401	6106
Co Gunnery Sergeant	BB 255	7315	Enlisted Accounts	M 401	6257
Administrative Chief	BB 255	7315	Firehouse 8,	M 303	6132
Duty NCO (After Working Hours)	BB 255	7363	Library	M 321	6171
-			Maintenance	>21	01/1
COMBAT ENGINEER INSTRUCTION COMPANY			Maintenance (Trouble Calls)	М 131	6142
Commanding Officer	BB 37	7405	Marine Corps Exchange Activities	111 121	0172
Ist Sergeant	BB 37	7405	Exchange Officer		0822
Company Gunnery Sergeant	BB 37	7405	Exchange		0822
Administrative Clerk	BB 37	7405	Barber Shop	M 19	6260
Senior Instructor	BB 37	7185	Cleaning & Pressing Shop	M 602	0737
Demo Range	BB 86	7328	Service Club	M 134	0709
Construction Shop	BB 48	7486	Service Station		
Rigging Section/Shore Party	BB 48	7460	Theater Snack Bar	M 171 SM 175	0832 6161
Duty NCO (After Working Hours)	BB 255	7363	Mess Officer		
buty 1100 trace working flours)	00 200	1303		M 324	6157
ENGINEER EQUIPMENT INSTRUCTION COMPA	NY		Dining FacilitiesPost Office	M 424 M 129	6176 6277
Commanding Officer	BB 137	7411	Special Services Activities	/	0211
1st Sergeant	BB 137	7251	Special Services Officer	M 129	6245
Administrative Clerk	BB 137	7251	Gymnasium	M 129 M 129	6245
Company Gunnery Sergeant	BB 137	7251	NCO Club.	M 100	0838
Academic Officer/NCOIC	BB 136	7154	Physical Fitness Center	M 319	6259
	55 170	7414	Swimming Pool.	M 139	6281
Supply NCO	BB 136	7154	Staff NCO Quarters		
= PP(2)	22 170	7414	BSQ Duty NCO.	M 128 M 234	6265
Engine Section	BB 71	7453	Dug day nod	W 234	6227
Engine Jeenon	DD /I	1403			

Organization	Bldg.	Phone
Permanent Personnel.	M 234	6227
	M 236	6273
	M 130	6276
Staff NCO Club	M 240	6123
Student Personnel	M 128	6292
Woman Marine Barracks	M 514	6153
Area Guard		
Security Officer	M 302	0688
Commander of the Guard/Guard Chief	М 302	0688
Desk Sergeant	M 302	0688
Main Gate Sentry	M 169	6141
Rear Gate Sentry	M 325	6275
Officer of the Day	M 302	6230
HEADQUARTERS MC SERVICE SUPPORT SCHOO	LS	
COMMANDING OFFICER/DIRECTOR	M 131	6101
Executive Officer/Assistant Director	M 131	0503
Secretary	M 131	6101
Sergeant Major	M 131	6182
S-1/Adjutant	M 131	0503
Personnel Officer	M 130	6195
Administrative Officer	м 130	6195
Armory	M 308	6269
School's Personnel Chief	M 130	6195
Career Planning NCO	M 130	6218
Legal Officer	M 131	0502
		6251
Locator	M 131	6234
Order Writing (Permanent Personnel)	М 130	6194
Order Writing (Student Personnel)	м 130	6191
Permanent Personnel	M 130	6194
School Files	M 131	6234
Student Admin Section	M 130	6218
Student Personnel	M 130	6194
Duty Clerk	M 131	6234
S-3/Director of Instruction	M 131 M 131	6100
Assistant S–3 Officer		6100
Instructor	M 422 M 422	6167 6117
Management School (IMS)		-
Operations Chief	M 131	6163
Academic Training Unit.	M 131	6100
Military Training Unit	M 131	6233
S-4 Officer.	M 131	0626
S–4 Chief	M 131	6142
Supply Officer	M 112	6205
Supply Chief	M 112	6188
Unit Property Officer (UPO)	M 112	6205
Schools Reproduction Center	M 131	6142
Procurement Section	M 112	6205
Property Section	M 112	6188
Warehouse	M 112	6188
HEADQUARTERS AND SERVICE COMPANY	\. <b></b>	44
Commanding Officer	M 522	6139
Executive Officer	M 522	0897
1st Sergeant	M 522	6139
		0897
Admin Chief	M522	6139
		0897
Company Gunnery Sergeant	M 522	6140
Casual Section	M 521	6159
Maintenance Chief	M 301	6137
Police and Property Sgt	M522	6259
Training NCO	M 522	6126
Duty NCO (After 1630)	M 522	6187

Organization	Bldg.	Phone
FOOD SERVICE SCHOOL COMPANY		
Commanding Officer	M 324	0636
Executive Officer	M 324	0636
1st Sergeant	M 324	6157
Administrative Chief	M 324	6157
Academic Officer	M 324	6112
Academic Chief	M 324	6151
Career Planner	M 324	6264
Field Phase Training Instructor	M 520	6226
Officer in Charge Bakers Course	M 324	6264
Officer in Charge Cooks Course	M 324	6264
Police Sergeant	M 613	6130
Supply Chief	M 613	6130
Testing NCO	M 324	6151
Company Training NCO	M 324	0636
Duty NCO	M 502	6145
MOTOR TRANSPORT SCHOOL COMPANY		
Commanding Officer	M 611	6208
		6160
Executive Officer	M 611	6160
		6208
1st Sergeant	M 611	6160
		6208
Administrative Section	M 611	6160
		0881
Training NCO/Career Planner	М 611	6193
Academic Officer	M 603A	6214
		6282
Academic Chief	M 603A	6214
		6282
Academic Testing	M 620	6239
Course Content Review Board	M 603A	6214
		6282
Plans & Programs	M 603A	6214
		6282
Class Commanders	М 601	6283
Counsefor/Troop Handler	M 601	6283
Field Performance/Testing	M 121	6152
Supply Section	M 619	6247
MT Processing	M 604	6121
Police & Property NCO	M 606	6185
Operation Instructional Section	M 307	6289
OIS Licensing NCO	M 323	6164
OIS Field Training Unit	M 122	6156
OIS Field Training Unit Dispatcher	M 144	6298
Automotive Mechanical Instructors Section	M 102	6290
ECII Maintenance Officer	M 102	0611
AMIS Power Plant Unit	M 102	6192
AMIS Fuel & Electric	M 123	6222
AMIS Prakes & Chassis	M 326	6267
Will Diaves & Chassis	M 320	6261
AMIS Engine Bay	м 321 М 101	6146
AMIS Advanced Motor Transport Instruction	M 202	6293
AMIS Heavy Equipment Lab	M 202 M 201	6131
W		
Maintenance Instructional Section	M 126	6250
MIS Annual PM Shop	M 327	6255
MIS Welding Shop	M 202	6181
MIS URR	M 203	6165
MIS Maintenance Peculiar	. M 214	6262

Organization	Bldg.	Phone	Organization	Bldg.	Phone
MARINE CORPS SERVICE SUPPORT SCHOOLS (C	Continued)		RESERVE SUPPORT UNIT		
Transportation & Maintenance Section	M 119	6189			
T & M Dispatcher	M 119	6124			
Maintenance Shop/Parts Room	M 121	6152	Commanding Officer	1403	2221
Duty NCO	M 604	6121	Executive Officer	1403	5415
			1st Sergeant	1403	5240
SUPPLY SCHOOL COMPANY			Administrative Chief	1403	1790
Commanding Officer	M 418	0635	Reserve Information Office	57	2051
Executive Officer	M 418	6241	Supply Officer	1403	3144
1st Sergeant	M 418	0635	ATD Staff (Jun-Aug)		
Administrative Chief	M 418	6241	S-1 (During Working Hours)	1403	1790
Casual Section	M 416	6125	Orders Section (During Working Hours)	1403	5240
Mail Room	M 408	6274	Officer of the Day	1403	1790
Property Section	M 419	6158			
Training	M418	6178			
Staff Duty NCO	M416	6125	RIFLE RANGE DETACHME	NT	
Academic Section					
Officer in Charge	M 418	6178	COMMANDING OFFICER	RR 12	7118
Academic Chief	M 418	6236	Chief Range Officer	RR 12	7118
Leadership Tech Lab	M 132	6249	Executive Officer	RR 12	7 186
Publications Unit	M 402	6135	Sergeant Major	RR 12	7186
			Adjutant	RR 12	7186
Basic Supply Instruction Section			Admininstrative Chief	RR 12	7118
Officer in Charge/Counselor	M 402	6168	Armory	RR 11	7141
Basic Supply Chief	M 402	6133	Career Planner	RR 12	7418
Manual Instructions	M 420B	6220	Civilian Maintenance	RR 13	7447
Sassy Instruction	M 413B	6297	Dining Facility	RR 3	7346
Class Commander	M402	6168	Fire Station #10	RR 6	7223
Duty NCO	M 416	6125	Gate	RR 78	7247
•			Maintenance	RR 13	7171
Disbursing Instructional Section			Markmanship Training Unit	RR 50	7435
Officer in Charge	M 407	6212	Marine Corps Exchange	RR 10	7230
NCOIC	M 407	6246	Medical Officer	RR 11	7316
		52,75	Motor Transport	RR 14	7280
Fiscal Instruction Section			Personnel Officer	RR 12	7418
Officer in Charge	M 409	6278	Post Office	RR 10	7 180
<b>.</b>		6216	Range Detail	RR 11	7165
		**	Rifle - Pistol Team (Base)	RR 11	7141
Ground Supply Instruction Section			Rifle - Pistol Team (2d FSSG)	RR 48	7374
Officer in Charge	M 403	0839	Rifle - Pistol Team (2d Mar Div)	RR 48	7196
	103	0037	Sergeant of the Guard	RR 11	7442
Ground Officer Supply Course Section			Service Club.	RR 49	7146
Officer in Charge	M 403	6134	Service Station	RR 72	7122
<b>3</b>		0-2	Sick Bay	RR 11	7316
Advance Enlisted Supply Instruction Section			Special Services.	RR 51	7168
Officer in Charge	M 403	6228	Statistical Office	RR 12	7131
NCOIC	M 403	6134		,	7257
Supply Chief	M 403	6228	Steam Plant	RR 15	7455
Course Content Board	M 402	6243	Supply Office	RR 11	7110
	,0 _	V=12	Supply Warehouse	RR 11	7235
			Target Shed	RR 238	7270
STAFF NCO ACADEMY			Training Aids Storeroom	RR 12	7418
Commanding Officer	M 215	6115	Barracks		
			Damaska DD 4	DD 4	7181
Executive Officer	M 215	6115	Barracks RR-4	RR 4	1101
-	M 215 M 215	6115 6284	BOQ	RR 9	7138

Organization	Bldg	Phone	Organization	Bldg	Phone
HEADQUARTERS, 2d MARINE D	IVISION		Materiel Management Officer	2	2516
			Mount-Out Project Officer	2	2516
			Logistics Chief	2	2516
DIVISION COMMANDER	2	2100	MIMMS	1208	5109
Aide to Division Commander	2	5404	ACCICTANT CHIEF OF STAFF C. F.		5010
Sergeant Major	2	2505	ASSISTANT CHIEF OF STAFF G-5	2	5012 3123
ASSISTANT DIVISION COMMANDER	2	5517	Leadership Team	2	1092
Aide to Assistant Division Commander	2	5517	Drug & Alcohol Team	14	1954
Arde to Assistant Division Commander	2	2307	Diag & Alcohol Team	•7	1984
CHIEF OF STAFF	2	2216	ASSISTANT CHIEF OF STAFF COMPTROLLER	123	2406
Staff Secretary	2	5425	Assistant Comptroller (Budget Officer)	123	2406
5mir 500/5milj. 1777111111111111111111111111111111111	-	J.25	Budget Chief	123	2406
STAFF DUTY OFFICER	2	2127	Comptroller Chief	123	2406
	_	P/A/	Fiscal Officer	900	5808
DEPUTY CHIEF OF STAFF	2	5604	ADJUTANT SECTION		
ASSISTANT CHIEF OF STAFF G-1	2	5601			
	_	5420	ADJUTANT	320	3747
Assistant G-1	2	5170	Assistant Adjutant	320	5164
		5234	Casualty Reporting Control Center	320	5033
Administrative Chief	2	5170	Congressional Interest	2	5921
ACCUSTANT CHIPP OF CTAPE C. 3	•	2712	Administrative Subsection		
ASSISTANT CHIEF OF STAFF G-2 Assistant G-2	<b>2</b> 2	<b>2713</b> 2093	Administrative Subsection  Administrative Chief	320	3196
Intelligence Chief	2	1501	Chief Clerk	320	3163
4th Counterintelligence Team	430	1537	Central Files/Guard Mail	320	3163
40) Countermentigence Team	420	5411	Forms & Reports Control	320	3747
Staff Counterintelligence Office	2	1501	Message Clerk	320	3163
Imagery Interpretation Unit (IIU)	123	3114	Reproduction Room	2	2012
		5715	Staff Duty Clerk	320	3163
Interrogator Translator Unit (ITU)	123	3212			
ITU Coordinator/Language Officer	123	3212	Administrative Procedures Section		
	100	2112	Admin Procedures Officer/NCOIC	408	2202
TU Supply/Motor Transport Section	408	3206	Tri-Command Admin School	408	3361
Sensor Control and Management Plt.(SCAMP)	336	1904 5310	Admin RIC Insp	408 320	3361 3747
Intelligence Operations Branch/TEC	518	2816	Aumin Discharge Section	J20	7171
Interrigence Operations Dianetiv (EO.,.,	210	5249	Classified Files Subsection		
Special Security Office	518	5716	Officer in Charge	339	5728
5th Special Security Comm Team	518	5716	Registered Publications	339	3748
Map Storeroom	518	28 16	-		
		5249	Personnel Subsection		
War Games Training Center	125	2959	Pers Class & Assign Officer	10	2123
		0.400	Assistant DCRAO(Ent.Outspins)	10	5008
ASSISTANT CHIEF OF STAFF G-3	2	2409 3701	Assistant PC&AO(En! Outgoing)  Personnel Chief	10 10	3057 3057
Assistant G-3	2	2409	rersonner citiet	10	5018
Operations/COC	2	3701	NCOIC Correspondence/Guard Mail Section	10	3057
Training	2	3026	NCOIC Order Writing Unit	10	3057
Schools	2	3026	NCOIC Quotas.	10	3057
Range	2	3080	NCOIC Class & Assign Section	10	3057
NBC Equipment Pool	1301	3693	NCOIC Testing/FMF Asst Unit	10	3057
Rifle and Pistol Team	RR 48	7196	Duty Clerk (After Working Hours)	10	3057
Operations Chief	2	2409			
WEO/NBC Officer	2	3026	Postal Subsection	1770	
TWSEAS	408	2317	Postal Officer	1770	5554
TIMET AS Dienlau Van	0P-5	3562 1476	Postal Chief	1770	1505
TWSEAS Display Van	UF-3	14/0	Personnel LOCATOR (Tri-Command)	1770 1770	1505 3074
ASSISTANT CHIEF OF STAFF G-4	2	2516	. dissilier Eddition (Tri Gommand/Triffit)	2.10	2074
Assistant G-4	2	2516	AIR OFFICER	2	5604
Plans Officer	2	2516			
Operations Officer	2	2516	AMMUNITION OFFICER	14	3560
Assistant Operations Officer	2	2516			
Maintenance Management Officer	2	2516			

Organization	Bldg	Phone
HEADQUARTERS, 2d MARINE DIVISION (Continu	ed)	
AREA AUDITOR	1116	2219
		3865
Audit Chief	1116	2219
BAND OFFICER	323	5912
Duty NCO	323	1814
BARBER SHOP	2	1791
CAREER PLANNING	HP 301	2116
Enlisted Management	HP 301	5706 3769
CHAPLAIN	37	5928
Assistant Chaplain	37	5738
Administrative Assistant	37	5738
		5150
COMMUNICATION-ELECTRONICS OFFICER	2	5611
Assistant CEO(Opns/Planning)	2	5344
Assistant CEO(Sup/Maint)	2	1500
Communications Chief	2	1907
		1807
Assistant Communications Chief	2	1907
Communication W. C. L. Offi	_	1807
Communication Watch Officer	2	1917
Communication Center (Traffic Section)	2	1671
Radio Van	307	2058
DATA SYSTEMS	320	5021 1083
DISBURSING OFFICER	314	2639
NCOIC	314	2639
Audit Section	314	2639
Document Control	314	2639
		2623
Fiscal Section	314	2639
Mail/File	314	5325
Travel	314	1757
Hq Bn	214	5325
ng Diff	314	5104 5264
2d Combat Eng Bn	314	5104
2d Mar	214	5264
Zu Mai	314	3666 371 <b>9</b>
6th Mar	314	3440
8th Mar	TC 854	3280 0241
10th Mar	314	0283 3874
2d Recon Bn	314	5208 5104
2d Tank Bn	314	5264 3425
		1604
Duty Clerk (After Hours)	314	5701
EDUCATION OFFICER — See Page 33		
EMBARKATION OFFICER	102	5518
	102	3780
Embarkation Chief	102	1091

Organization	Bldg.	Phone
FIRE MARSHAL	320	3247
FIRE SUPPORT COORDINATOR	522	5509
FOOD SERVICES OFFICER  Division Mess Administrator  Division Food Service Technician	1116 1116 1116	<b>2322</b> 1408 1408
Food Service School	TC 805	0441
HEADQUARTERS COMMANDANT	317	5321
INFORMATION SYSTEMS MGMT OFFICER	320	5021 1083
INSPECTOR	320	2206 3247
Readiness Information Center	320	1384
JOINT PUBLIC AFFAIRS OFFICER	302	5655
LOCATOR PERSONNEL - Tri Command	1770	3074
MOTOR TRANSPORT OFFICER	102	2314 1008
Assistant Motor Transport Officer	102	2314
Motor Transport Chief	102	3133
Motor Transport Co-ordinator	102	3133
Division Licensing NCO	102	3548
NAVAL GUNFIRE OFFICER	2	1535
Naval Gunfire Liaison Officer	2	1535
OPERATIONS ANALYSIS OFFICER	320	5021 1083
ORDNANCE OFFICER	102	<b>5421</b> 3536
Ordnance Chief	102	3560
PHOTOGRAPHIC SERVICES - See Page 33		
PROVOST MARSHALL	37	5746
POSTAL OFFICER	1770	5554
RECONNAISSANCE OFFICER	BA 102	7112
REPRODUCTION OFFICER	1100 1100	<b>5964</b> 1096
SAFETY OFFICER	320	3247
SPECIAL SERVICES OFFICER	300	5623
Special Services Chief	300	3636 5623
Athletic Officer	300	3636 3636
Bookkeeper	300	3516
Custodian Recreation Fund	300	3636 5623
Warehouse	330	3636 3991
STAFF JUDGE ADVOCATE	311	3590
Deputy Staff Judge Advocate	311	3590
Admin Law Officer	311	5545 2808
		2008

Organization	Bldg	Phone	Organization	Bldg.	Phone
Admin Section	311	5545	Post Office	344	1741
Annex	TC 754	0117	Special Services	317	3524
Tallow,	10 154	0424	Supply Officer	431	5511
Logal Chief	211		Supply Chief	431	3893
Legal Chief	311	2808			
		5545	S&C Files	317	3316
Review Officer	311	5545	Officer of the Day	317	3316
Justice Section	311	5545			5321
Court Docket Section	333	5545			
Reporters	311	<b>29</b> 23	AREA 3 ACTIVITIES		
·		2021	Area Commander	317	5321
Trial Counsel	333	2021	Area Executive Officer	317	532
That Council the second of the	222	2023	Area Police Officer	317	3524
Defense Counsel	331			<b>72</b> .	JJL-
Defense Counsel	221	2681	HEADQUARTERS COMPANY		
		2614			
		5093	Commanding Officer	326	1769
Reporter Section	342	5026	Executive Officer	326	3505
Legal Assistance Officer	66	1903	1st Sergeant	326	1769
g		5860	Company Gunnery Sergeant	326	3505
		5000	Mailroom	326	3505
SUPPLY OFFICER	1208	5215		332	
			Supply		3977
Asst Supply Officer	1208	5215	Training NCO	326	1769
Supply Chief	1208	3177	Duty NCO	326	3505
Supply Management Team	1208	3177			
Division Mount Out Projects Officer	1208	5254	COMMUNICATION COMPANY		
Division mount out i rejects officer in it.	1200	JLJ 1	Commanding Officer	301	2813
SURCEON	207	2105	Executive Officer	301	3843
SURGEON	306	2105			
Administrative Assistant	306	2105	1st Sergeant	301	3843
Surgeon Record Office	306	5252	Company Gunny/Police	301	1094
Hospital Corps Detail Chief	306	5252	Operations	301	2922
Navy Career Counselor	306	1062			1744
Navy Personnel Records Office	306	2619	OIC Communication Center	2	2188
wavy Fersonner Records Office	200		Communication Center	2	1671
		1062			
Navy Separations	306	2619	Radio Platoon	307	3879
Division Psychiatrist	14	2081	Wire Platoon	307	2058
					3895
			Multi-Channel Radio Platoon	1704	1597
HEADQUARTERS BATTALION			Maintenance Platoon	1707	1073
THE PARTY OF THE P					3981
			Air Naval Gunfire Platoon	307	1043
COMMANDING OFFICER	317	5321	Motor Transport	1703	1733
Executive Officer	317	5321	Engineer Section	1703	1733
Sergeant Major	317	3316	Dispatcher	1703	1733
Adjutant.	317	3316	Supply	301	1094
Bn. Admin	326	1978	Supply Warehouse	307	1617
	220	50 11	Duty NCO	301	1094
			501) (100	٠.	1077
		3756	WILLIAM DAVIGE GALIBANIA		
		2022	MILITARY POLICE COMPANY		
S-1	317	3316	Commanding Officer	3	2457
S-1 Chief	317	3316	Executive Officer	3	2455
S-3 Officer	317	5174	1st Sergeant	HP 51	5135
3–5 omeer	711	1752	Duty NCO	HP 51	161
			bally NCO	111 31	101
S-4 Officer	317	3524	PRIVICE COMPANY		
		5305	SERVICE COMPANY		
Battalion Aid Station	324	3455	Commanding Officer	323	2869
Career Planning Office	301	2096	Executive Officer	323	2869
Chaplain	317	2892	1st Sergeant	323	2869
Medical Chief	324	1723	Armory	328	340
			Gunnery Sergeant.	323	384
Dispensary	324	3455			
Embarkation Officer	317	3524	Mess Chief	325	368
Guard	326	1526	Motor Transport Chief	1780	3644
Legal Officer	317	3316	Dispatcher	1780	1546
Mess Officer	317	3524	Motor Transport Maintenance	1780	364
	325	3689	Reproduction Chief	1100	596
Mass Chief		5305	Supply Chief (Garrison Property)		
Mess Chief			Supply Chief (Garrison Property)	431	389:
Battalion N3C Office	317		,,,,	401	
Mess Chief	1711	1546	Supply Chief (Organic Property)	431	5511
Battalion N3C Office			,,,,	431 431 <b>323</b>	5511 5511

Organization	Bldg.	Phone	Organization	Bldg.	Phone
HEADQUARTERS BATTALION (Continued) TRUCK COMPANY			ENGINEER SUPPORT COMPANY Commanding Officer	309	3898
Commanding Officer	327	1875	Samuel and American	307	3883
1st Sergeant	327	3618	1st Sergeant	309	3883
Admin	327	3618	Duty NCO	309	3883
Dispatcher	1711	3430			
		3512	COMPANY "A"		
1st Platoon	1710	3484	Commanding Officer/Ist Sergeant	313	1913
2nd Platoon	1710	3753			3470
3rd Platoon	1710	3753	Company Storeroom	1800	3683
Duty NCO	327	1875	Duty NCO	313	1913
DIVISION SCHOOLS			COMPANY "B"		
Director	8	2085	Commanding Officer/1st Sergeant	321	1659
Asst. Director	8	5193			1530
Sgt. Major	8	2085	Company Storeroom.	1800	3683
Operations Chief	8	5193	Duty NCO	321	1530
Chief Instructor Tactics	8	2085			
Chief Instructor Leadership	8	5193	COMPANY "C"		
Marksmanship Training Unit	R 48	7196	Commanding Officer/1st Sergeant	321	1630
	342	1027			1557
Duty NCO	•	1065	Company Storeroom	1800	3683
Duty NCO	8	2085	Duty NCO	321	1630
2d COMBAT ENGINEER BATTALIO	N		2d MARINES		
Commanding Officer	315	3223			
Executive Officer	315	3223 3223	COMMANDING OFFICER	223	2110
Sergeant Major	315	3940	Executive Officer	223	<b>2118</b> 5595
S-1/Adjutant	315	3940 3940	Sergeant Major	223	1037
Battalion Admin	343	3669	S-1/Adjutant	223	1037
	272	2086	3 1/ Adjutant	223	1037
S-2	315	5139	S-2	223	3625
S-3	315	3961	• • • • • • • • • • • • • • • • • • • •	223	2828
		3704	S-3	223	5190
S-4	315	5319	S-3 Chief	223	1038
		3993	Project Officer	223	1038
Armory	303	3293	S-4	223	2222
Chaplain	340	2262	Administrative Chief	223	3424
Communications Officer	341	3139	Air Liaison Officer	223	2822
Communication Center	341	3940	Area #2 Guard	206	1077
Construction Officer	1810	3793	Career Planners	207	1915
Drafting/Survey	1810	3793			5200
G-4 Range		3986	Career Counselor	207	5200
Heavy Equipment Officer	1808	3975	Chaplain	223	5669
		3426	Communications Officer	329	1745
Bn Guard/Cpl of the Guard	303	3685	Communications Chief	329	1592
Legal	315	5189	Dispensary	221	5081
MMO	1811	3870	Embarkation Officer	223	2222
Motor Transport Officer/Dispatcher	1809	5223	Intelligence Chief	223	3625
Motor Transport Chief	1809	3583	Legal Officer	223	1038
Personnel Officer/Chief	343	3669	MMO	223	3678
S&C Files	315	3940	Marine Corps Exchange Area 2	225	1626
Sick Bay	340	3937	Medical Officer	203	1584
Supply Officer	1811	2846	Medical Chief	221	5081
Supply Chief	1811	3711	Mess Chief	211	3490
Utilities Officer	1804	1983	Message Center	223	3687
Officer of the Day	315	3940	Motor Transport Officer	1206	3460
EADQUARTERS & SERVICE COMPANY			Motor Transport Chief	1206	3404 3460
Commanding Officer/1st Sergeant	313	3527	Operations Chief	223	5190
Company Storeroom	1824	3683	Post Office	229	3598
Duty NCO	313	1882	S&C Files	223	3678
			Service Club Area #2	225	3814
			Special Services	201	1612
			Staff Duty NCO	223	1037
				LLJ	1001

Organization	Bldg	Phone	Organization	Bldg	Phone
			WEAPONS COMPANY		
HEADQUARTERS COMPANY			Commanding Officer/1st Sergeant	220	1401
Commanding Officer/Executive Officer	227	3715	Duty NCO	220	3608
1st Sergeant	HP 175	3205	34, 100	220	3608
Armory	230	5176	Duty NCO	204	3608
Supply Officer	229	3846	2-9	204	2000
Duty NCO	HP 175	3205			
say neo	111 173	2203	2d BATTALION, 2d MARINES	;	
1st BATTALION, 2d MARINE	5				
			COMMANDING OFFICER	219	27 19
			Executive Officer	219	27 19
COMMANDING OFFICER	214	5713	Sergeant Major	219	3736
Executive Officer	214	1459	Adjutant/S-1	219	37.36
Sergeant Major	214	1459			2719
S-1	214	1459	Bn Admin/S-1	207	3839
S-2	214	3217			3175
S-3	214	3448	S–2	219	3771
S–3A	214	2211			3225
S–4	214	1651	S–3	219	2607
		1573	S–3A	219	3631
Adjutant	214	3716	S-4	219	3655
Battalion Admin	220	3651			1048
		3222	Air Liaison Officer	219	2607
Air Liaison Officer	214	2211	Armory	234	1868
Armory	231	3507	Career Planning NCO	207	1915
Chaplain	214	2335	Chaplain	219	5055
Communication Officer	231	3727	COC	219	2607
Communication Chief	231	3 <b>7</b> 27	Communication/Storeroom	234	5206
Dining Facility	211	3490			3936
Education Officer	214	2211	Embarkation Officer	219	3655
Embarkation Officer	214	1651	Legal Officer	219	3477
Legal	214	37 16	Mail Room	219	3225
Maintenance Management Officer	212	3556		<b>L1</b> /	3771
Medical Officer/Chief	203	1584	Maintenance Management Office	219	3655
medical officer officer	203	2291	Medical Officer	203	3968
Mess Chief	211	3490	Mess Chief	211	3490
Message Center	214	3867	Message Center	219	3225
Motor Transport Officer	1206	1803	Motor Transport	1205	1337
wotor fransport officer	12.00	3501	motor franchite franchist	1205	1052
Sick Bay	203	1584	S&C Files	219	
Special Services Officer	214	3217	340   He31	217	3736
Supply Officer	206	3295	Sick Bay	221	3477
Officer of the Day	214	3716	Supply Officer	221 215	3968
Officer of the Day	214	57 18 57 13	Supply Officer	215	3744
		37 13	Sunniu Warehousen	210	1662
1151561115555 6 6551165 661151107			Supply Warehouse	210	3213
HEADQUARTERS & SERVICE COMPANY	200	010 4	Warehouse	200	1997
Commanding Officer/1st Sergeant	208	3194 1452	•	219	3477
Duty NCO	208	3194	HEADQUARTERS & SERVICE COMPANY		
			Commanding Officer/1st Sergeant	205	3389
COMPANY "A"					1340
Commanding Officer/1st Sergeant	202	3 <b>28</b> 8 1321	Duty NCO	209	3369
Duty NCO	202	3288	COMPANY "E"		
COMPANY "B"	LUL	J200	Commanding Officer/1st Sergeant	205	3492
Commanding Officer/1st Sergeant	204	3237		203	3492 1544
	~~	1359	Duty NCO	205	3492
Duty NCO	204	3237	-ag	207	2492
Dudy HOU	204	2621	COMPANY "F"		
COMPANY "C"			Commanding Officer/1st Sergeant	209	22/0
Commanding Officer/1st Sergeant	212	3695	Commonaing Officer/ 151 Sergeunt	207	3369
Communiting Officer/ 151 Sergediff	414		Duty NCO	200	1554
Duty NCO	212	1424 3405	Duty NOO	209	3369
Duty NCO	212	3695			

Organization	Bldg	Phone	Organization	Bldg.	Phone
2d BATTALION, 2d MARINES (Continued) COMPANY "G"			6th MARINES		
Commanding Officer/1st Sergeant	213	1677 2984	COMMANDING OFFICER	423	FOOR
Duty NCO	213	1677	Executive Officer	423	<b>5835</b> 5914
WE A DONE COMPANY			Sergeant Major	423	3346
WEAPONS COMPANY	217	20.51	Adjutant	423	3346
Commanding Officer/1st Sergeant	217	3951 1071	S-1/Admin Center	423 423	3346 5263
Duty NCO	217	3951	S-3	423	1305
buty 1100	21/	27.71	S–3A	423	5801
			S-4	423	3737
3d BATTALION, 2d MARINES			Air Liaison Officer	423	1305
,			Armory	436	1648
			Career Planner	408	1950
COMMANDING OFFICER	118	<b>58 20</b>			5313
Executive Officer	118	3984	Chaplain	423	5370
Sergeant Major	118	1996	Classified Files	423	3 3 4 6
Adjutant	118	3984	Communications Officer	423	3433
Battalion Admin	118	3830	Communications Chief	429	3216
		3792	Communications Maintenance/Storeroom	429	3216
S-2	118	3558	Dining Facility	411	3431
S-3	118	3782	Education Office	401	3768
5–4	118	5013	Embarkation Officer	423	3737
Battalion Aid Station	118	1642	Legal Officer	423	3346
Air Liaison Officer	118	3782	Message Center	423	3452
Armory	218	1844	Motor Transport	1505	3476
Chaptain	118	1996	NBC NCO	444	3547 1433
Chaplain	118	5787	Police Sergeant	428	1623
Dining Facility	226 122	1832	Medical Chief	427	E20.1
Embarkation Officer	118	2010	Assist. Medical Chief	427	5201 35 <b>9</b> 3
Legal Officer	118	3777 3830	Admin.	427	5201
Logistics Chief	118	3777	Medical Records	427	3593
MMO	226	5140	Medical Supply	427	5201
Mess Officer	118	3777	Physical Exam	427	3593
Message Center	118	1996	Sick Bay	421	3200
Motor Transport	1205	2076		,	5220
		1657	Regimental Guard	427	1313
S&CFiles	118	3558	S&C Files	423	3346
Supply Officer	226	5140	Special Services/Gymnasium	401	3768
		3147	Supply Officer	436	1648
OFFICER OF THE DAY	118	58 20			1025
			Officer of the Day	423	3346
HEADQUARTERS & SERVICE COMPANY					
Commanding Officer/1st Sergeant	118	2977	HEADQUARTERS COMPANY		
Duty NCO	165	1786	Commanding Officer/1st Sergeant	427	1895
COMPANY 202			Chief Clerk	427	3120
COMPANY '' '' Commanding Officer/1st Sergeant	110	20.4	Supply StoreroomDuty NCO	436 427	1648
Duty NCO	118 195	<b>2964</b> 1525	Duty NCO	421	1895
	173	1323			
COMPANY "K"			1st BATTALION, 6th MARINE	s	
Commanding Officer/1st Sergeant	118	2954		•	
Duty NCO	185	1633			
			COMMANDING OFFICER	416	5523
COMPANY "L"			Executive Officer	416	5523
Commanding Officer/1st Sergeant	118	3868	Sergeant Major	416	3297
Duty NCO	185	1633	Adjutant	416	5523
			Bn Admin	426	3286
WEAPONS COMPANY					1963
Commanding Officer/1st Sergeant	118	39 10	S-2	416	1674
Duty NCO	195	1525	S-3	416	5303
			S–3A	416	5218
			S-4	416	3407
			Air Liaison Officer	416	5218
			Armory	440	3530

Organization	Bidg	Phone	Organization	Bldg	Phone
Career Planner	408	5313			
Chaplain	416	2282	HEADQUARTERS & SERVICE COMPANY		
Communications Officer	414	3767	Commanding Officer/1st Sergeant	404	1809
Embarkation Officer	440	3530	The state of the s	404	3523
Files/Reproduction	416	3589	Duty NCO	404	1809
Legal Officer	416	3589	2007 11001111111111111111111111111111111	404	1009
Message Center	416	1552	COMPANY "E"		
Motor Transport Officer	1505	3633	Commanding Officer/1st Sergeant	406	2201
Sick Bay	420	3623	Community Circuit 131 Seigeum	400	3201 3282
Supply Officer/MMO	437	1084	Duty NCO	406	3201
Supply Street Minority Property	401	3717	buty 1100	400	3201
Maint. Chief	414	2993	COMPANY "F"		
Training NCO	416	5303	Commanding Officer/1st Sergeant	406	2522
Officer of the Day	416	5523		400	3532 1003
24,	710	3323	Duty NCO	406	3532
IEADQUARTERS & SERVICE COMPANY				400	2222
Commanding Officer	420	3568	COMPANY "G"		
1st Sergeant	420	3688	Commanding Officer/1st Sergeant	407	1513
Duty NCO	420	3568		707	2944
5 d d d d d d d d d d d d d d d d d d d	720	2000	Duty NCO	407	1513
OMPANY "A"			buty wood	407	1515
Commanding Officer/1st Sergeant	422	3709	WEAPONS COMPANY		
	766	1905	Commanding Officer/1st Sergeant	403	240
Duty NCO	422	3709	Communiting Officer/ 1st Sergeant	407	3692
		3/0/	Duty NCO	407	3183 3183
COMPANY "B"			buty Noo	407	2102
Commanding Officer/1st Sergeant	420	3943			
	720	3587	21 PATTALION OF MARINE		
Duty NCO	420	3943	3d BATTALION, 6th MARINE	>	
buty web	420	3743			
OMPANY "C"			COMMANDING OFFICER	419	E/10
Commanding Officer/1st Sergeant	412	3827	Executive Officer		5612
The second secon	712	1906	* *****	419	5612
Duty NCO	412	3827	Sergeant Major	419	5189
out 1100111111111111111111111111111111111	714	3021	S-1/Adjutant	419	5233
YEAPONS COMPANY			Bn Admin	417	5257
Commanding Officer	422	3208	S-2	443	3797
Sommanding Officer	422	1900			1511
Duty NCO	422	1900	S-3	419	5020
Duty NCO	422	1900	S–3A	419	5185
			S-4	419	1570
24 BATTALION AL MADINES			Administrative Officer	437	1695
2d BATTALION, 6th MARINES	ı		Administrative Officer	417	5257
			Aid Station	417	3797
OMMANDING OFFICER	400	2200	Aid Station	417	3877
	400	2200	Air Officer	419	5185
Executive Officer	400	1685	Armory	413	1794
Sergeant Major	400	3994	Career Planner	408	1950
Adjutant	400	1685	Chaplain	419	2264
Bn Admin	402	3862	Communications Officer	434	5204
c 1		5251	Comm Chief	434	5152
S-1	400	2200	Comm Center	419	3453
S2	400	327 <b>7</b>	Embarkation Officer/MMO	419	1695
S–3	400	3931	Legal Officer	419	1070
S–3A	400	3759	Motor Transport Officer	1506	1517
S–4	400	5402	NBCD Officer	413	1794
		3831	Police Sgt	442	2057
Armory	402	38 07	Supply Officer	445	1646
Career Planner	408	1950			1435
Chaplain	400	2260	Supply Warehouse	445	1646
Communication Center	400	1685	Officer of the Day	419	5612
Communication Officer	439	5166	•		~~
Communication Chicer	400	5402	HEADQUARTERS & SERVICE COMPANY		
		1581	Commanding Officer/1st Sergeant	417	1447
Embarkation Officer	400	1701			
Embarkation Officer	400 1506	5118			2934
Embarkation Officer. Legal Officer/Legal ClerkMotor Transport Dispatcher	1506	5118	Duty NCO	417	2934 1447
Embarkation Officer. Legal Officer/Legal Clerk Motor Transport Dispatcher. Sickbay	1506 404	5118 3603	Duty NCO	417	<b>2934</b> 1447
Embarkation Officer	1506	5118	Duty NCO	417	

Organization	Bldg.	Phone	Organization	Bldg.	Phone
3d BATTALION, 6th MARINES (Continued) COMPANY "I"			Supply	TC 341	0153 0142
Commanding Officer/1st Sergeant	415	3173	Duty Officer	TC 704	0189
Duty NCO	415	<b>3126</b> 3173	HEADQUARTERS COMPANY Commanding Officer/1st Sergeant	G 522	0271
COMPANY "K"			Armory	G 480	0393
Commanding Officer/1st Sergeant	409	3152	Comm/Motor Pool	TC 771	0255
Community Contest, 15t Surgeam	407	3226	Duty NCO	G 522	0277
Duty NCO	409	3226			
COMPANY "L"			1st BATTALION, 8th MARINE	S	
Commanding Officer	407	3463	COMMANDING OFFICER	TC 745	0213
Dutu NCO	407	3285	Executive Officer	TC 745	0213
Duty NCO	426	3463	Sergeant Major	TC 745	0213
WEARONS COMPANY			S–1/Adjutant	TC 745	0228
WEAPONS COMPANY			S–2	TC 745	0297
Commanding Officer/1st Sergeant	415	1910	J-4	10 743	0398
Duty NCO	415	3174	S-3	TC 739	0302
Duty NCO	415	3174	S–3A	TC 739	0362
			S-4	TC 739	0325
8th MARINES			Battalion Admin	TC 738	0165
on maxines				10150	0489
			Aid Station	G 540	0124
COMMANDING OFFICER	TC 704	0114	Armory	G 480	0392
Executive Officer	TC 704	0585	Career Planner	G 520	0195
Sergeant Major	TC 704	0585	Chapfain	G 540	0510
S-1/Adjutant	TC 704	0189	Communications Officer	TC 735	0388
S-2	TC 705	0446	Embarkation	TC 739	0454
S-3	TC 705	0418	Legal Officer	TC 745	0398
		0420			0297
		0225	Motor Transport	TC 774	0484
S-4	TC 705	0468	Supply	TC 460	0236
		0343			0476
Administrative Chief	TC 704	0189	Officer of the Day	TC 745	0379
Aid Station	G 530	0451			
Armory	G 480	0182	HEADQUARTERS & SERVICE COMPANY		
Career Planner	G 520	0104	Commanding Officer/1st Sergeant	G 532	0872
		0492	Duty NCO	G 532	0877
Chaplain	TC 601	0778	COURTING HAIT		
Communications Off		0794	COMPANY "A"	0.543	0751
Communications Officer	TC 706	0230	Commanding Officer/1st Sergeant	G 541	0751
Communications Center.	TC 706	0857	Duty NCO	G 541	0198
Regimental Radio	TC 720	0275	COMPANY "B"		
Wire Shop/MUX Radio  Deputy for Camp Affairs	TC 721	0674	Commanding Officer/1st Sergeant	G 542	0773
Deputy for Camp Affairs	G 530	0216	Duty NCO	G 542	0223
NCOIC	G 530	0194	549 NOO	U )72	UZZJ
Emergency Maintenance	G 530	0194	COMPANY "C"		
Area Maintenance/Police Shed.	TC 832	0221	Commanding Officer/1st Sergeant	G 542	0673
Area Maintenance Tool Room.	TC 832	0245 0245	Duty NCO	G 542	0495
Area Guard Officer/Chief	G 521	0177	, , , , , , , , , , , , , , , , , , , ,	~	
Special Services Officer	TC 748	0330	WEAPONS COMPANY		
Embarkation Officer	TC 705	0343	Commanding Officer/1st Sergeant	G 531	0171
Electronic Maintenance/Comm Chief	TC 706	0477	Duty NCO	G 531	0498
Garrison Property Office	TC 730	0440	·		-
Gym	TC 775	0131			
Legal Officer.	TC 704	0293	2d BATTALION, 8th MARINE	S	
Legal	TC 704	0338			
Motor Transport Officer	TC 773	0232	COMMANDING OFFICER	TC 753	0211
		0132	Executive Officer	TC 753	0211
Regimental Guard	G 521	0471	Sergeant Major	TC 753	0166
Commander/Sgt-of-Guard	G 521	0177	Adjutant	TC 753	0254
Special Services NCOIC	TC 748	0330	Bn. Admin	TC 737	0366
Special Services Rec Room	TC 749	0 170			0432
			S-2	TC 752	0272

Organization	Bldg	Phone	Organization	Bldg	Phone
S–3	TC 752	0188	COMPANY "L"	4,6 .	-,
		0203	Commanding Officer/1st Sergeant	G 543	0676
S-4	TC 752	0180 0475	Duty NCO	G 543	0425
Aid Station	G 550	0426	WEAPONS COMPANY		
		0422	Commanding Officer/1st Sergeant	G 534	0233
Air Liaison Officer	TC 752	0188	Duty NCO	G 534	0428
Armory	G 480	0394			
Career Planner	G 520	0492	10th MARINES		
Chaplain	G 550	0618			
Communications Officer	TC 751	0383	COMMANDING OFFICER	522	5509
Message Center	TC 753	0357	Executive Officer	522	5750
Motor Transport	TC 474	0339	Sergeant Major	522	3352
Supply	TC 342	0237 0421			5509 5750
Officer of the Day	TC 753	0211	S-1/Adjutant	522	335
			S–2	522	3822
HEADQUARTERS & SERVICE COMPANY			S-3 Officer	522	5527
Commanding Officer/1st Sergeant	G 533	0256	S-3 Operations Chief	522	552
Duty NCO	G 533	0296	S-3 Training	522	1640
			S-4	522	393
COMPANY "E"			Administrative Chief	522	335
Commanding Officer/1st Sergeant	G 551	0331	Armory	539	1474
Duty NCO	G 551	0341	Career Planner	560 560	28 4 226
COMPANY 'F''			Communications Center	522	1908
	G 552	0387	Communications Chief	1603	391
Commanding Officer/1st Sergeant  Duty NCO	G 552	0397	Communication Officer	522	3488
COMPANY "G"	0 772	0377	CMR Officer	1603	357
Commanding Officer/1st Sergeant	G 554	0262	CMR Repair	1602	270
Duty NCO	G 554	0252	Dental	460	385
	:		Electronics Repair	1602	270
WEAPONS COMPANY			Embarkation Officer	522	3467
Commanding Officer/1st Sergeant	G 534	0385	Engineer Officer	1842	180
Duty NCO	G 534	0376	FSCC	522	1590
·			Guard	515	377
			Legal Officer	522	335
3d BATTALION, 8th MARINE	S				5750 5509
COMMANDING OFFICER	TC 745	0404	Aid Station	520	174
Executive Officer	TC 745	0156	Message Center	522	1908
Sergeant Major	TC 745	0579	Metro Officer	537	390
Adjutant	TC 745	0546	Motor Transport Dispatcher	598	1572
Battalion Admin	TC 745	0292	Motor Transport Officer	1841	1572
		0282	Motor Park Security	1841	157
Battalion Mail Room	TC 745	0546	Ordnance Officer	522	3933
Battalion Aid Station	G 540	0335	Radar/Electronics Repair	1602	270
Chaplain	G 540	0537	Radio Chief	1603	391
Communications Officer	TC 735	0250	S & C Files	522	335
Education Officer	TC 739	0578	Basic Cannoneer School	538	172
Legal Officer	TC 745	0546	Sick Bay	421	320
Message Center	TC 745	0541	Special Services	E00	522
Motor Transport	TC 603	0347	Supply Officer	500 533	528
Supply	TC 462	0239	Bn Supply	528	196 <b>316</b>
OFFICER OF THE DAY	TC 745	0273 <b>0404</b>	Survey Officer.	537	390
OFFICER OF THE DAT	1 C / 45	0404	Target Information Officer	522	159
HEADQUARTERS & SERVICE COMPANY			Staff Duty NCO	522	335
Commanding Officer/1st Sergeant  Duty NCO	G 532 G 532	0664 0653	Duty Officer	522	335
COMPANY THE					
COMPANY "I" Commanding Officer/1st Sergeont	G 541	0667			
Duty NCO	G 541	0472			
•	0 571	V-7/ A			
COMPANY "K"	C E40	04.77			
Commanding Officer/1st Sergeant	G 542 G 542	06.47 0.488			
Duty NCO	U 342	U 400			

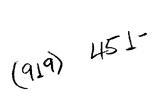
Organization	Bldg.	Phone	Organization	Bldg	Phone
10th MARINES (Continued)			BATTERY "K"		
HEADQUARTERS BATTERY			Commanding Officer/1st Sergeant	519	3525
Commanding Officer	517	3531			3833
1st Sergeant	517	3531	Comm/MT	599	3643
		1088	Duty NCO	519	3525
Chief Clerk	517	3531			
		1088			
Gunnery Sergeant	517	3531	2d BATTALION, 10th MARINE	S	
Motor Transport Officer	1755	3938			
Duty NCO	517	3531	COMMANDING OFFICER	501	5015
Duty NCO	515	1011	Executive Officer	501	3220
			Sergeant Major	501	5822
TARGET ACQUISITION BATTERY			S-1/Adjutant/Legal	501	3220
Commanding Officer	517	3698	Bn Admin	503	3791
Duty NCO	517	3531			3992
			S-2	501	2032
			5-3	501	3220
1st BATTALION, 10th MARINE	S		S–4	501	3138
•			Administrative Chief	501	3220
COMMANDING OFFICER	526	5826	Armory	513	1747
Executive Officer	526	5241	Career Planner	501	3220
Sergeant Major	526	5213	Chaplain	560	5975
S-1/Adjutant	526	5213	Communications Officer/Chief	509	3941
Bn Admin	526	3611	Embarkation Officer	1824	3570
	320	3664	Legal	501	3220
S-2	526	5238	Liaison Officer	501	5015
S–3	526	1512	Logistics Chief	501	3906
~ ~	320	5318	Message Center	501	3220
S-4	526		Motor Transport Officer/Chief	1775	1569
Career Planner	526 526	5102 1049	Motor Transport Dispatcher	1775	1880
Communications Officer.	534		NBC Officer	513	1574
Legal Officer		3681	NGF Liasion Officer	501	2032
Logistics Chief	526	5213	Operations Chief	501	2032 3570
Message Center	526	5102	Sick Bay	503	3887
Motor Transport Officer	526	5213	Supply Officer/Chief	509	3184
Motor Transport Dispatcher	1775	3143	Expris officer offer	209	5270
Naval Gunfire Liaison	1775 527	1965	Officer of the Day	501	3220
Operations Chief	526	1673 '	HEADQUARTERS BATTERY	501	3220
Ordnance/Armory	525	1512 1842	Commanding Officer/1st Sergeant	503	1686
Sick Bay	527		Commencing Officery for Surgeoff	303	2928
Supply Officer.	528	1496	Duty NCO	503	1686
Supply Officer.	220	1515	buty moderning	202	1000
Survey	FO/	3165	BATTERY "D"		
Battalion Duty Officer	526 <b>526</b>	1512	Commanding Officer/1st Sergeant	507	1020
Daniellon Duly Officer	320	5213	Commonding Officer/ 131 Sergeum	307	1 <b>938</b> 3594
HEADQUARTERS BATTERY			Duty NCO	507	1938
Commanding Officer/1st Sergeant	E 277	1005	buty noothers and a second	307	1930
Duty NCO	527 527	1995	BATTERY "E"		
buty NCO	527	1995	Commanding Officer/1st Sergeant	511	1606
BATTERY "A"			outside the office of the original transfer original transfer of the original transfer of the original transfer original transfer original transfer original transfer original transfer original transfer original transfer original transfer original transfer original transfer original transfer orig	JII	3546
Commanding Officer/1st Sergeant	E22	200.4	Duty NCO	511	
Sommunating Officer/ 151 Sergeont	523	3904	buty Neo	511	1606
Comm/MT		3478	BATTERY "F"		
	571	3607	Commanding Officer/1st Sergeant		0.577
Duty NCO	523	3904	Communiting Officer/ 151 Sergeant	511	3576
BATTERY "B"			Dutu NCO		3622
			Duty NCO	511	3576
Commanding Officer/1st Sergeant	523	1461	BATTERY ''L''		
Comm /MT		1463			
Comm/MT	571	3607	Commanding Officer/1st Sergeant	507	3703
DNCO	523	1461	Duty NCO		3965
ATTERY "C"			Duty NCO	507	3703
Commanding Officer/1st Sergeant	519	3128			
	E10	100.4			
Administrative Office	519	1994			
Administrative Office	599 519	3643			

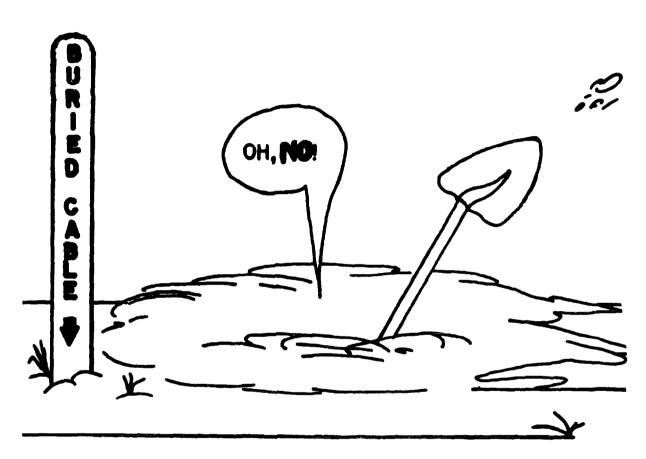
Organization	Bldg.	Phone	Organization	Bldg.	Phone
3d BATTALION, 10th MARINE	 }		Armory	FC 302	3281
			Battalion Aid Station	FC 412	1386
COMMANDING OFFICER	520	5800	Career Planner	FC 412	1800
Executive Officer	520	1524	Chaplain,	FC 400	5791
Sergeant Major	520	3946	Communications Officer	1309	3151
Bn. Admin	560	1605	Communications Lech Shop	1309	1538
		3559	,		3818
S-1	520	1524	Dispatcher	1750	
J	320				3894
		3946	Motor Transport Officer	1750	3897
C 2		5800	MMO	FC 400	2710
S-2	520	3246	Ordnance Maintenance Officer	1750	3855
S-3	520	5169	Supply Officer	1118	3926
		5025			1855
S-4	520	1509	Survey Metro	1118	3856
		5160	Officer of the Day	FC 400	2805
Armory	505	3876		. C 400	2003
Career Planner	560		HEADQUARTERS BATTERY		
Communications Officer/Chief		1605			
	532	1824	Commanding Officer/1st Sergeant	FC 411	3577
Message Center	520	39 46			3283
Motor Transport Officer	1775	3410	Duty NCO	FC 412	1637
Motor Transport Dispatcher	1775	1498			
Naval Gunfire Officer	520	5169	BATTERY "N"		
Ordnance Officer	505	3876	Commanding Officer/1st Sergeant	FC 412	1558
Personnel Officer	560	1605	•		1494
RPS Clerk	505	3876	Maintenance	1750	
Sergeant of the Guard	520	3946	Motor Transport Office	1750	3897
			Duty MCO	1739	3472
Corporal of the Guard	520	1524	Duty NCO	FC 412	1864
Sick Bay	560	1330	B. ===		
Supply Officer	1801	1615	BATTERY "O"		
Officer of the Day	520	5800	Commanding Officer/1st Sergeant	FC 412	1864 1637
HEADQUARTERS BATTERY			Comm Shack	1309	3151
Commanding Officer/1st Sergeant	560	3359	Maintenance	1750	
termination of the designation of the second	300	1423	Motor Transport Office		3897
Duty NCO	560	3508	Duty NCO.	17 <i>3</i> 9 FC 412	3472 1864
BATTERY "G"					
Commanding Officer/1sr Sergeant	550	3539	5th BATTALION, 10th MARINES		
Duty NCO	550	3581			
	230	5501	COMMANDING OFFICER	E 0 400	
BATTERY "H"				FC 400	2104
			Executive Officer	FC 400	2104
Commanding Officer/1st Sergeant	550	3789	Bn Admin	FC <b>4</b> 00	3115
		3763			2053
Duty NCO	550	3581	S-2	FC 400	1957
			S–3	FC 400	3859
BATTERY "I"			S-4	FC 400	2616
Commanding Officer/1st Sergeant	550	1624		1 0 400	3832
•		3739	Adjutant	EC 400	
Duty NCO	550	3581		FC 400	5227
buty woo	200	1001	Armo ry	FC 302	3281
W. W					3845
BATTERY "M"			Career Planner	FC 400	3705
Commanding Officer/1st Sergeant	560	3892	Chaplain	FC 400	5791
		39 59	Communications Tech Shop	GP 8	1932
Duty NCO	560	3508	Communications Officer	GP8	1932
			Dining Facility	FC 420	1021
			Medical Section	FC 413	
4th BATTALION, 10th MARINES			Medical Officer		1303
THE PATTAERY IVE MAINTED			Medical Officer	FC 313	5798
COMMANDING OFFICER	FC 400	2005	Medical Chief	FC 313	5126
		2805	MIMMS,	FC 400	2616
Executive Officer	FC 400	2805	Motor Transport Records Clerk	GP-816	3741
Sergeant Major	FC 400	1347	MT Maintenance Shop	816	1032
Adjutant	FC 400	1396	S & C Files/CMS	FC 400	5227
Bn Admin	FC 400	1347	Special Services	GP 12	3996
	, 5 100	1396	Supply	1118	
			JUDDIY	LLIX	3985
S-2/S-3	EC 400				
S-2/S-3	FC 400	1601	Survey Metro	GP 13	1862
S-2/S-3 S-4	FC 400 FC 400				

Organization	Bldg	Phone
th BATTALION, 10th MARINES (Continued)		
HEADQUARTERS BATTERY	==	
Commanding Officer/1st Sergeant	FC 413	1472
		1327
Tracked Vehicle Maintenance	GP-I	1036
Duty NCO.	FC 413	2931 1327
BATTERY R		
Commanding Officer/1st Sergeant	FC 413	3982
	an =	1931
Motor Transport	GP 7 FC 413	1941 1931
BATTERY S		
Commanding Officer/1st Sergeant	FC 411	3422
Makes Terranent	00.4	3676
Motor Transport	GP 4 GP 2	3670 2921
Ordnance	FC 411	2921 3676
•	FU 411	20/6
BATTERY T Commanding Officer /1st Sergeant	FC 411	3944
• • • • • • • • • • • • • • • • • • • •	•	3948
Motor Transport	GP 3	3918
Ordnance	GP 2	2921
Duty NCO	FC 411	3948
2d RECONNAISSANCE BATTALION	1	
COMMANDING OFFICER	BA 102	7112
Executive Officer	BA 102	7112
Sergeant Major	BA 102	725
Adjutant	BA 102	7259
Bn Admin	BA 102	7426
		7443
S-1	BA 102	7443
S-2	BA 102	7464
S-3	BA 102	7210
<u>S</u> –4	BA 102	7124
Personnel Office	BA 102	7426
Legal Chief	BA 102	7443
Armory	BA 102	7423
Communications Officer	BA 105	7256
Comm Shop	BA 105	7256
Dining Facility.	BA 103	7161
Mail Room	BA 102 BA 105	7423 7305
Message Center	BA 103	7240
Motor Transport Officer	BA 102	7327
motor transport officer	DA 150	7293
Scuba Locker	BA 128	7463
Special Services Officer	BA 104	7464
Supply Officer/Chief	BA 128	7202
Construction of the O	B . 144	7149
Sergeant of the Guard	BA 102	7259
Officer of the Day	BA 102	7259
HEADQUARTERS & SERVICE COMPANY Commanding Officer/1st Sergeant	BA 105	7424
Duty NCO	BA 105	<b>7226</b> 7424
COMPANY "A"		
COMPANY "A" Commanding Officer/1st Sergeant	BA 104	7220
D 1 NGO	D 4 35 1	7266
Duty NCO	BA 104	7220

Organization	Bldg.	Phone
COMPANY "B"		
Commanding Officer/1st Sergeant	BA 102	7272 7228
Duty NCO	BA 102	7272
COMPANY "C" Commanding Officer/1st Sergeant	BA 104	7490
		7343
Duty NCO	BA 104	7490
2d TANK BATTALION		
COMMANDING OFFICER	304	5819
Executive Officer	304	5819
Sergeant Major	304	5188
S-1/Adjutant	304	1851
Du Admin	204	5819 3955
Bn Admin	306	3933 1 <b>744</b>
S-2	304	3810
S–3	304	3725
S-4	304	5926
		3861
Armory	310	1857
Career Planner	304	1454
Chaplain	340	2262
Communications Officer	1835	3506
Communications Section	1835	3960
Corpora I of the Guard	310	1857
Legal	304	5819
Medical Section	324	1034
Macana Contor	304	1578 1851
Message Center	GP 19	3677
Motor Transport	GP 19	3869
NBC Officer	304	3725
Training Aids Office	337	1324
Sergeant of the Guard	310	1857
Sick Bay	324	1034
<b>-</b>		1578
Supply Office	1831	3834
Supply Officer	1831	3834
Co. Supply	1819	3417
Tank Maintenance	1832	3168
Officer of the Day	304	1948 1851
	<b>3</b> 4	,,,,,
HEADQUARTERS & SERVICE COMPANY Commanding Officer	318	3193
1st Sergeant/Gunnery Sergeant	318 318	3193 3750
Supply	1819	3417
Duty NCO	318	3750
COMPANY "A" Commanding Officer/XO	316	3176
1st Sergeant	316	3176
Gunnery Sergeant	316	3228
Supply	1833	3749
Juppi 1	10//	3787
Tank Park	1833	3787

Organization	Bldg.	Phone	Organization	Bldg.	Phone
COMPANY "B"			Medical Section		
Commanding Officer /XO	312	3707	Medical Officer	BB 10	7461
1st Sergeant	312	3602	Dental Officer	38 10	7147
Supply/ Gy Sergeant	1835	3712	Chief Corpsman	BB 10	7206
Tank Park	1833	3749	Dispensary	3B 10	7365
Duty NCO.	312	3707	Duty Corpsman	BB 10	7338
•	712	2101	Motor Transport Section		
COMPANY "C"			Motor Transport Officer	A 11	7249
Commanding Officer/XO	312	3443	Motor Transport Dispatcher	A 11	7359
1st Sergeant	312	1986	Sentry Booth, Boat Basin	A 11	7396
Tank Park/Supply	1833	5145	Special Services Officer	BB 36	7164
Duty NCO	312	3443	Supply Section Supply Officer	A 1	7152
COMPANY "D"			Supply Chief	A-1	7388
Commanding Officer/XO	316	3573	Officer of the Day	BB 5	7109
1st Sergeant	316	3953	•	•	
Supply/Gy Sergeant	1835	3712	HEADQUARTERS & SERVICE COMPANY		
			Commanding Officer	BB 11	7172
Tank Park	1835 316	3712 3573	Executive Officer	B 11	7380
Duty NCO	710	2213	1st Sergeant	B 11	7172
TOW COURTING			Company Gunnery Sergeant	BB 11	
TOW COMPANY					7172
Commanding Officer/XO	308	2092	Duty NCO	BB 11	7380
1st Sergeant	308	38 25			
Tow Tech Shop	107	3702	COMPANY "A"		
Tow Unit Leader	308	38 25	Commanding Officer	BB 12	7123
Supply	107	3702	Executive Officer	BB 12	7123
Duty NCO	308	38 25	1st Sergeant	BB 12	7282
•			Company Gunnery Sergeant	BB 12	7282
			Maintenance Section	A-3	7466
2d ASSUALT AMPHIBIAN BATTA	LION		Platoon Commanders	A 7 BB 12	7466 7123
COMMANDING OFFICER	BB 5	7109		00 12	,12
Executive Officer	BB 5	7109	COMPANY "B"		
Sergeant Major	B3 5	7361	Commanding Officer	BB 13	7121
Adjutant/Legal Officer	BB 5	7109	Executive Officer	BB 13	7121
Adjutano Legar Officer	007	7335	First Sergeant	BB 13	7158
Bn. Admin	BB 15	7381	Company Gunnery Sergeant	BB 13	7158
Bn, Admin	DD 13		Maintenance		
c 0	55.5	7203	Platean Commander	A 3	7167
S–2	BB 5	7140	Platoon Commanders	A 3	7167
S-3	BB 5	7333	Duty NCO	B3 13	7121
		7320	eeumany Hell		
S-4	BB 5	7383	COMPANY "C"		
		7320	Commanding Officer	BB 13	7348
Maintenance Management Officer	A-1	7116	Executive Officer	BB 13	7348
		7152	1st Sergeant	BB 13	7344
Ordinance Officer	BB 5	7383	Company Gunny	BB 13	7344
S–5	BB 5	7140	Maintenance	A 3	7366
Armory	BB 6	7 176	Platoon Commanders	A 3	7366
Career Planner	BB 15	7434	Duty NCO	BB 13	7344
Chaplain	BB 16	7304			
Communication Section			COMPANY "D"		
Communications Center	BB 5	7173	Commanding Officer	BB 14	7421
		7483	Executive Officer	BB 14	7421
Communications Officer	A1				
Communications Chief	Al	7389	1st Sergeant	BB 14	7471
CMS Clerk	BB 5	7361	Company Gunnery Sergeant	BB 14	7471
Dining Facility	BB 72	7148	Maintenance Section	A 3	7433
Mail Clerk	BB 5	7335	Platoon Commanders	A-3	7433
Maintenance Section			Duty NCO	BB 14	7471
Maintenance Officer	A 2	7436			
Maintenance Chief					





BEFORE DIGGING IN ANY AREAS PLEASE CALL EXT. 2929

# 2D FORCE SERVICE SUPPORT GROUP

Organization	Bldg	Phone	Organization	Bldg	Phone
HEADQUARTERS 2d FSSG FMF	ATLANTIC		ASST C/S PLANS, DEPLOYMENT CONTROL.	60	2811
					2201
COMMANDING GENERAL	59	5504			2031
Aide to Commanding General	59	5192			2033
Sergeant Major	59	5405	BSSG-4		
DEPUTY COMMANDER	59	5192	Commanding Officer	127	1041
	•/	3172	• • • • • • • • • • • • • • • • • • • •	,	1013
CHIEF OF STAFF	59	2702	Sergeant Major	127	1013
Staff Secretary	59	2826	Adjutant/S-1	127	1041
Staff Duty Officer (After Working Hours)	59	2826	Personnel Admin	127	1013
			S-3	127	1041
ASSISTANT CHIEF OF STAFF READINESS/INSP			C. A/Fash aut		28 20
Assistant Chief of Staff	59	5600	S-4/Embark	127	3219
Readiness Officer	59	3785	CEO	127	1041
			Supply Maint	130	3202
ASSISTANT CHIEF OF STAFF MANPOWER	59	5739	Maintenance	127 913	3219 3976
	٠,	2312	Hq CMDT	127	3219
		3588	Warehouse	130	3202
Asst C/S Manpower/Postal Officer	59	5739	Duty NCO	12	1962
Congressional Interest Officer	59	3588			2702
Administrative Chief	59	3588	MSSG-36/MSSG-38		
			Commanding Officer/XO	6	2210
			1st Sergeant/Admin	6	5137
ASSISTANT CHIEF OF STAFF INTELLIGENCE.	59	5708	Supply/Maint	6	5165
A		3597			3786
Assistant Intelligence.	59	3162			
Intelligence Chief	59	3162	ACCICTANT CHIEF OF CTAFF COMPTROL I FR		
Counterintelligence Assistant	59	3597	ASSISTANT CHIEF OF STAFF COMPTROLLER.	59	5324 2925
			Budget Officer	59	3564
ASSISTANT CHIEF OF STAFF TRAINING	59	5607	Budget Chief	59	3564
Assistant Training	59	2217	Internal Review Officer	59	3564
Projects Officer	59	22 17			
Training Officer	59	3245	ADJUTANT	59	5304
Rifle and Pistol Team	RR 48	7374	Administrative Chief	59	3254
Range Officer	59	2217	Personnel Officer	10	2700
Operations Chief	59 50	5607	Classification & Assignment	10 10	3675 1761
Training Chief.	59 59	3171 2217	Order Writing Section	10	3195
Halling Chief	27	2211	MM&S Officer	59	3159
			CMCC/CMS	59	1331
ASST. C/S HUMAN/CIVIL AFFAIRS	61	3471	Administrative Procedures Section	3,	1551
Career Planning Officer	61	1334	Admin Procedures Officer/NCOIC	408	2202
Drug and Alcohol Education Officer	61	5755	Tri-Command Admin School	408	3361
•			Admin RIC Insp	408	3361
			Admin Discharge Section	408	3361
ASSISTANT CHIEF OF STAFF OPERATIONS	59	3914			
		20 25	AREA GUARD	FC 304	1343
		2823			
Administrative Chief	59	3914	AUTOMATED DATA PROCESSING GENERAL SU		
Motor Transport Officer	59	5506	Director	1209	5910
Service Support (Air/MT/Embark)	F0	3648	Analysis & Programming	1209	1773
Service Support (Arr/W+/ Embark)	59	3648 3 <b>4</b> 56	Computer Room	Vic 1209	2365
Embarkation	59	1588	Operations Officer	1209 1209	1050 2308
Engineer Support.	59	3456	Operations Officer	1207	2300
Supply Support	59	3557	BOATHOUSE 2D FSSG	SA 28	7493
		1042			, .
		3646	CHAPLAIN 2D FSSG		
		5525	Chaplain Staff	37	5711
		3847			1391
Maintenance Support	59	1063	Area 1	111	5582
M.O.O.S.E	59	5992	French Creek	FC 300	2682
M.O.O.S.E. (Oak Grove)		2948	Industrial Area	914	5438
Food Services	1116	3390			
HSU	59	5306			

# 2D FSSG

Organization	Bldg	Phone
HEADQUARTERS, 2D FSSG (Continued)		
COMMUNICATION-ELECTRONICS OFFICER	59	3838
Assistant CEO	59	3673
Communications Chief	59	3673
Asst Comm Chief/Elect Maint	59 50	3673
OIC Communications Center	59	3169
Communications Watch Officer	59	3169
CONSOLIDATED FISCAL ACCOUNTING OFFICE	, <del>-</del>	5403
FMFLANT (CFAO)	67	5401 5112 5808
CUSTODIAN RECREATION FUND	115	5519
		1879
DATA SYSTEMS OFFICER	1209	1050
Information Systems Management Office	1209	1050
DENTAL OFFICER	15	5705
Dental Appointment Desk	15	3734
Administrative Officer	15	5705
Dental Chief	15	1720
French Creek Dental Department	FC 300	3239
2D FSSG DISBURSING		
DISBURSING OFFICER	314	2639 5701
Allotments	314	5701 2623
Audit Section	21.4	5325
Document Control	314 314	2639 2639
		2623
Fiscal Section	314	2639
Matt/Etta	214	5701
Mail/File	314	5325
Travel	314	1757
H&S Bn	314	5325 3172
		3455
2d Anglico	314	3445
01.151.7.1155.5		3172
2d ASLT AMPB Bn	314	3425 1604
2d Force Recon Co	314	3273
Maint Bn	314	1750 3172
Med Bn	314	3445 3273
2d Radio Bn	TC 854	1750 0241
2d Sup Bn	314	0283 3172
		3445
8th Comm Bn	314	3273 1750
8th Eng Support Bn	314	3273 1750
8th MT Bn	314	1750 3273
BSSG-4	214	1750
UUUU—T	314	3425 1604
Duty Clerk (After Hours)		

Organization	Bidg	Phone
EMBARKATION		
Embark Officer	59	2611
		1366
		1588
Port Control Office Morehead City		1805
		1806
FRENCH CREEK AREA CLINIC		
Medical Officer	FC 313	5798
Clinic Supervisor	FC 313	5798
Administration	FC 313	5125
Sick Call Supervisor	FC 313	5126
Pharmacy	FC 313	5127
Laboratory	FC 313	5125
X-Ray	FC 313	5127
FRENCH CREEK COORDINATOR'S OFFICE	FC 312	1988
JOINT PUBLIC AFFAIRS OFFICER	302	5680
LOCATOR PERSONNEL - Tri Command	1770	3074
MOTOR TRANSPORT		
Dispatcher – 8th Motor Transport Bn	926	3373
	927	3411
Liscensing NCO	TP 455	3788
NAVY RECORDS/PERSONNEL	27	5907
Asst. Personnel Officer	27	1565
Navy Training / Career Counselor	27	2311
Duty NCO	27	5907
POST OFFICE		
Postal Officer	1770	5554
Postal Chief	1770	1505
Superintendent of Mails	1770	1505
Mail Room Inspector	1707	5554
Supply/Embark NCO	1770	1505
Personnel LOCATOR (Tri-Command)	1770	3074
Unit #1 (2d Marines)	229	3598
Unit #2 (Hq 2d Mar Div)	344	1741
Unit #4 (Camp Geiger)	TC 900	0776
Unit #5 (French Creek)	FC 313	5250
SASSY MANAGEMENT UNIT		
Officer in Charge	1108	3402
Operations Officer	1108	5609
Administration	1108	3402
Customer Service	1108	3935
Chief	1108	5207
Customer Assistance	1108	3728
Deployment Support	916	2806
General Account	1108	2121
Bin Storage	1108	3663
Bulk Storage	904	1085
CIP Camp Geiger	TC 761	0342
,	• •	0286
Initial Issue Provisioning	904	3438
Issue Control, Stock Control	1108	1468
ssue & Receiving	1108	3784
Medium Storage	903	3642
Receipts Control	1108	1683
Storage Operations	1108	1522

Organization	Bldg	Phone	Organization	Bldg	Phone
Inventory Officer	904	1326	HEADQUARTERS & SERVICE BATTALION, 2D	FSSG	<u>-</u>
Maintenance Float Account	1211	1765	COMMANDING OFFICER	121	5427
Float OIC/Chief	1211	5327	Executive Officer	121	5427
			Adjutant	121	1300
SPECIAL SERVICES OFFICER	115	1879	Bn. Admin	117	2056
Special Services Chief	FC 312	5519			2037
		3584			2938
Boathouse 2d FSSG	SA 28	7493	Sergeant MajorS-3	121 119	1300 3881
STAFF JUDGE ADVOCATE	914	5806		11,	3454
		1304	S-4	119	3881
Assistant Staff Judge Advocate	914	5806	Amory	FC-302	3820
Legal Administrative Officer	914	1304	Bn Aid Station	FC 520	5472
Administrative Law Officer	914	1304	Career Planner	121	1393
Legal Services Chief	914	1304	Chaplain	FC 565	5582
Administrative Chief	914	1304	Dining Facility	FC 540	
Court Docket Chief	914	1482	5 ming 1 dointy 111111111111111111111111111111111111		3600
Court Reporter Chief	914	1304	Dispatcher	FC 420 1405	1021
Review Officer	914		Embarkation		1655
Review Chief	914 914	2122	LINDARAUGI	119	3881
Chief Irial Counsel		2122	Carrison Bronosty		3454
Chief That Counsel	914	5408	Garrison Property	914	1728
Trial Connect		1388	Legal Officer	121	1352
Trial Counsel	914	1388	MHE Platoon	913	3976
Chief Defense Counsel	914	5413	MMO	119	3881
Defense Counsel	914	1457			3360
			Motor Transport Maintenance Officer	1406	3549
2d COUNTERINTELLIGENCE TEAM			Motor Transport Officer	1405	3713
Team Commander	FC 400	57 1 <del>9</del>	CAV MT	TP 455	2939
Operations Officer	FC 400	5719	Motor Transport Platoon	1405	3549
Team Chief	FC 400	1067	Orders Clerk	121	1300
			NBC Warehouse	1211	3462
NBC SCHOOL FMFLANT			II MAF MIMMS School	125	2634
Officer in Charge	TC 1143	0116			2960
NCOIC	TC 1143	0433	Special Services	115	1879
Instructor Office	TC 1143	0433	Supply Officer	914	2800
Supply Section.	TC 1143	0281	Supply Chief	914	1080
Gas Chamber Area	TC 630	0365	Training	119	3881
Instructors Quarters.	TC 1142	0333		11,	3454
Duty NCO (After Working Hours)	TC 1142	0333	Battalion Staff Duty	121	5427
			HEADQUARTERS & SERVICE COMPANY		
			Commanding Officer	FC-565	56 <b>2</b> 6
			Executive Officer	FC-565	1373 5626
FMFLANT COMMUNICATIONS SCHOOL			1st Sergeant	FC-565	5626
Officer in Charge	TC 1038	0415	Company Gunnery Sergeant	FC 565	5626
Operations Officer	TC 1038	0497	Career Planner	FC 565	5626
Operations Chief	TC 1038	0483	Training	FC 565	56 26
Academic Supervisor	TC 1038	0121	BEQ Manager	HP 57	3409
Administrative Chief	TC 1038	0173	Duty NCO	FC 565	1373
Communication Center Section	TC 1038	0121		1 0 303	1313
Comm-Electronics Repair Section	TC 1038	0121	SERVICE COMPANY		
ERC/SUPPLY	TC 1030	0457	Commanding Officer	FC-515	5155
Field Radio Section	TC 1037			1 0-313	
Field Wire Section		0493	Executive Officer	E0 515	5265
	TC 1038	0493	Executive Officer	FC-515	5265
Organizational Assistance Team	TC 1038	0483	First Sergeant	EC 515	5155
Radio Telegraph Operators Course	TC 1017	0742	inst seigeant	FC-515	5265
Schools Gunnery Sergeant	TC 1038	0173	Company Corose Blazar	=0 =	5155
Schools Supply	TC 1039	0123	Company Career Planner	FC 515	5265
Duty NCO (After Working Hours)	TC 1039	0123	C		5155
			Company Gunnery Sergeant	FC 515	5265
			<b>-</b> 1.1		5155
			Training NCO	FC 515	5155 5155
SEPARATE BATTALIONS, 2D FSSG			Training NCO	FC 515	

TO THE PROPERTY OF THE PARTY OF

READQUARTERS AID SERVICE BATTALION   Continued	Organization	Bldg	Phone	Organization	Bldg	Phone
Commanding Officer	HEADQUARTERS AND SERVICE BATTALION (	Continued)		MMO/Dispatcher	1812	1738
Commanding Officer						1742
Executive Officer		FC 515	1922	MT Maintenance	1822	3927
Lis Segonant	•			Police Sergeant	512	1619
Communications Centers   99   3169				Sick Bay	421	3200
Communications Center.   59   3166   Sectial Services.   535   1947   Operations/Training.   FC 515   1922   Suebly Officer (Organic).   1012   1772   1772   1764   Stopp.   531   1563   3700   Supply Chief.   1012   1772   1772   1764   Stopp.   531   1563   3700   Supply Chief.   1012   1772   1772   1764   Stopp.   531   1563   3700   Supply Chief.   1012   1772   1772   1764   Stopp.   531   1563   3700   Supply Chief.   1012   1772	=					
Department				Special Services	535	
Radio Shop.   531   3700   Supply Chief.   2012   1772   1764   5700   531   1563   3700   Supply Chief.   2012   1772		= -				
Tech Stop.   531   1563   1563   1563   1565   5710   1504   1505   15						
Mine Show				Supply Giller Title Titl	1012	
DUN NCO				Officer of the Day	£14	
Commanding Officer	•			Officer of the pay	310	37 10
Commonding Officer	Duty NCO	FC 515	3423	HEADONA PTERS & SERVICE COMPANY		
Executive Officer	30 050541 045544 160				514	2450
Commanding Officer	AD DENIAL BATTALION					
Command Master Chief.						
MEADQUARTERS & SERVICE COMPANY			28 17	-		
HEADQUARTERS & SERVICE COMPANY   13   231	Command Master Chief	13	2935			
Camending Officer.   13   283				Company Supply	1824	5269
Camenarding Officer   13   2398   BEACH AND PORT COMPANY	HEADQUARTERS & SERVICE COMPANY			Duty NCO	514	1812
Executive Officer.   13   2958   BEACH AND PORT COMPANY   COMPAN		13	2831			
Administrative Chief   13   299   Commonding Officer   506   1514				BEACH AND PORT COMPANY		
Supply				Commandina Officer	506	1514
Varietiouse Chief.   1118   2367				-		
Malerial Handling Equipment.   1812   1742	t t t					-
Air Delivery   Air Delivery   106   3726   1835	warehouse Circl	1110	2301			
Commanding Officer	31 DEVELO GAMBIAN					
Executive Officer.				All Delitely	100	
Senior Enlisted Advisor.	<del>-</del>		-	C	3004	
Appointments and Information						
COMPANY   Commonding Officer   536   329				Duty NCO	506	1414
Commanding Officer	Appointments and Information	460	3714			
Security						
Executive Officer.   15   1720   First Sergeant.   536   1853   52610   5262   5264   5264   5264   5264   5264   5264   5264   5264   5264   5265				-	-	
Senior Enlisted Advisor.   15   1720   Supply   1824   5269   5	Commanding Officer	15	5705	Executive Officer	536	1853
Appointments and information	Executive Officer	15	1720	First Sergeant	536	1853
Appointments and Information	Senior Enlisted Advisor	15	1720	Supply	1824	5269
French Creek Dental Detachment.	Appointments and Information	15		Duty NCO	506	1652
Company						
Commanding Officer   510   1349	Transmitted by the state of the	, 6 500	227	COMPANY "R"		
Executive Officer					510	1349
AlanDing Support BN 2d FSSG   First Sergeant   510   3419						
Supply	24 LANDING CURRORT BN 24 ECCC					
Executive Officer		E14	E710	<u> </u>		
Sergeant Major.   516   3511   S-1/Adjutant.   516   5154   COMPANY "C"				* * *		
S-1/Adjutant.		-		buty NCO	510	1349
Sample				COMBANA I.C.		
Page	•	-				
S-2         516         3161         1st Sergeant         510         1891           S-3         516         2119         Duty NCO         510         1891           Operations         516         3161         Zd RADIO BATTALION, 2D FSSG         TC 1063         1891           Training         516         3162         COMMANDING OFFICER         TC 1063         0103           Air Alert Force         506         1652         Executive Officer         TC 1063         0175           S-4A/Embark         516         3754         Sergeant Major         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Battalion Aid Station         506         1528         SSO /S&C         TC 1059         0764           Carger Planner         535         1947         S-3         TC 1069         0102	Bn Admin	535				
S-3	•		2956			
S-3         516         2119         Duty NCO         510         1891           Operations         516         3161         2d RADIO BATTALION, 2D FSSG           Training         516         1026           S-4         516         3256         COMMANDING OFFICER         TC 1063         0103           Air Alert Force         506         1652         Executive Officer         TC 1063         0175           S-4A/Embark         516         3754         Sergeant Major         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Battalion Aid Station         506         1528         SSO/S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         0115           Chaplain         536         2268         S-3T         TC 1063         0140           Dining Facility         508 <td>S–2</td> <td>516</td> <td>3161</td> <td></td> <td></td> <td></td>	S–2	516	3161			
Operations         516         3161         2d RADIO BATTALION, 2D FSSG           Training         516         1026           S-4         516         3256         COMMANDING OFFICER         TC 1063         0103           Air Alert Force         506         1652         Executive Officer         TC 1063         0175           S-4A/Embark         516         3754         Sergeant Major         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Aguation Aid Station         506         1528         SSO /S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         015         015           Communications Officer         529         3781         S-4         TC 1060         0196           Communications Officer         508         5266         0128         0128         0128			1026	• • •	1824	5269
Training.         516         1026           S-4         516         3256         COMMANDING OFFICER         TC 1063         0103           Air Alert Force.         506         1652         Executive Officer.         TC 1063         0175           S-4A/Embark.         516         3754         Sergeant Major.         TC 1063         0175           S-4 Chief.         514         3257         Adjutant.         TC 1063         0175           Armory.         504         3836         S-1         TC 1063         0175           Armory.         504         3836         S-1         TC 1063         0175           Battalion Aid Station.         506         1528         SSO /S&C         TC 1059         0764           Career Planner.         535         1947         S-3.         TC 1059         0102           Cargentry.         512         1619         0115         0115           Chaplain.         536         2268         S-3T.         TC 1060         0196           Communications Officer.         529         3781         S-4.         TC 1063         0140           Dining Facility.         508         5266         0128           Guard.         <	S-3	516	2119		510	1891
S-4         516         3256         COMMANDING OFFICER         TC 1063         0103           Air Alert Force         506         1652         Executive Officer         TC 1063         0175           S-4A/Embark         516         3754         Sergeant Major         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Agutation Aid Station         506         1528         SSO /S&C         TC 1063         0175           Career Planner         506         1528         SSO /S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         015         015           Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         526	Operations	516	3161	2d RADIO BATTALION, 2D FSSG		
S-4         516         3256         COMMANDING OFFICER         TC 1063         0103           Air Alert Force         506         1652         Executive Officer         TC 1063         0175           S-4A/Embark         516         3754         Sergeant Major         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Agutation Aid Station         506         1528         SSO /S&C         TC 1063         0175           Career Planner         506         1528         SSO /S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         015         015           Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         526	Training	516				
Air Alert Force       506       1652       Executive Officer.       TC 1063       0175         S-4A/Embark       516       3754       Sergeant Major.       TC 1063       0175         S-4 Chief.       514       3257       Adjutant.       TC 1063       0175         Armory       504       3836       S-1       TC 1063       0175         Battalion Aid Station       506       1528       SSO /S&C       TC 1059       0764         Career Planner       535       1947       S-3.       TC 1059       0102         Carpentry       512       1619       0115       0115         Chaplain       536       2268       S-3T       TC 1060       0196         Communications Officer       529       3781       S-4       TC 1063       0140         Dining Facility       508       5266       0128         Guard       510       3979       Log Chief       TC 1063       0128         Legal Officer       516       5710       Embarkation NCO       TC 1063       0340         Mail Room       516       3511       NBC NCO       TC 1063       0340         Material Handling Equip       1817       3105       Maintenance	<del>-</del>			COMMANDING OFFICER	TC 1063	0103
S-4A/Embark         516         3754         Sergeant Major.         TC 1063         0175           S-4 Chief         514         3257         Adjutant         TC 1063         0175           Armory         504         3836         S-1         TC 1063         0175           Battalion Aid Station         506         1528         SSO /S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         0115           Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         5266         0128           Guard         510         3979         Lo g Chief         TC 1063         0128           Legal Officer         516         5710         Embarkation NCO         TC 1063         0340           Mail Room         516         3511         NBC NCO         TC 1063         0340           Material Handling Equip         1817         3105         Maintenance Management Officer						
S-4 Chief.         514         3257         Adjutant.         TC 1063         0175           Armory.         504         3836         S-1.         TC 1063         0175           Battalion Aid Station.         506         1528         SSO /S&C.         TC 1059         0764           Career Planner.         535         1947         S-3.         TC 1059         0102           Carpentry.         512         1619         0115           Chaplain.         536         2268         S-3T.         TC 1060         0196           Communications Officer.         529         3781         S-4.         TC 1063         0140           Dining Facility.         508         5266         0128           Guard.         510         3979         Log Chief.         TC 1063         0128           Guard.         516         5710         Embarkation NCO.         TC 1063         0128           Mail Room.         516         3511         NBC NCO.         TC 1063         0381           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122						
Armory         504         3836         S-1         TC 1063         0175           Battalion Aid Station         506         1528         SSO /S&C         TC 1059         0764           Career Planner         535         1947         S-3         TC 1059         0102           Carpentry         512         1619         0115         0115           Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         5266         0128           Guard         510         3979         Log Chief         TC 1063         0140           Legal Officer         516         5710         Embarkation NCO         TC 1063         0140           Mail Room         516         3511         NBC NCO         TC 1063         0381           Material Handling Equip         1817         3105         Maintenance Management Officer         TC 862         0122				- •		
Battalion Aid Station.         506         1528         SSO / S&C.         TC 1059         0764           Career Planner.         535         1947         S-3.         TC 1059         0102           Carpentry.         512         1619         0115           Chaplain.         536         2268         S-3T.         TC 1060         0196           Communications Officer.         529         3781         S-4.         TC 1063         0140           Dining Facility         508         5266         0128           Guard.         510         3979         Log Chief.         TC 1063         0128           Legal Officer.         516         5710         Embarkation NCO.         TC 1063         0140           Mail Room.         516         3511         NBC NCO.         TC 1063         0181           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122						
Career Planner         535         1947         S=3.         TC 1059         0102           Carpentry.         512         1619         0115           Chaplain.         536         2268         S=3T.         TC 1060         0196           Communications Officer.         529         3781         S=4.         TC 1063         0140           Dining Facility         508         5266         0128           Guard.         510         3979         Log Chief.         TC 1063         0128           Legal Officer.         516         5710         Embarkation NCO.         TC 1063         0140           Mail Room.         516         3511         NBC NCO.         TC 1063         0340           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122						
Carpentry         512         1619         0115           Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         5266         0128           Guard         510         3979         Log Chief         TC 1063         0128           Legal Officer         516         5710         Embarkation NCO         TC 1063         0140           Mail Room         516         3511         NBC NCO         TC 1063         0381           Material Handling Equip         1817         3105         Maintenance Management Officer         TC 862         0122						
Chaplain         536         2268         S-3T         TC 1060         0196           Communications Officer         529         3781         S-4         TC 1063         0140           Dining Facility         508         5266         0128           Guard         510         3979         Log Chief         TC 1063         0128           Legal Officer         516         5710         Embarkation NCO         TC 1063         0140           Mail Room         516         3511         NBC NCO         TC 1063         0381           Material Handling Equip         1817         3105         Maintenance Management Officer         TC 862         0122				J	10 1009	
Communications Officer.         529         3781         S-4         TC 1063         0140           Dining Facility         508         5266         0128           Guard.         510         3979         Lo g Chief.         TC 1063         0128           Legal Officer.         516         5710         Embarkation NCO.         TC 1063         0140           Mail Room.         516         3511         NBC NCO.         TC 1063         0381           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122		_		£ 3 <b>∓</b>	TO 10/2	
Dining Facility         508         5266         0128           Guard         510         3979         Lo g Chief         TC 1063         0128           Legal Officer         516         5710         Embarkation NCO         TC 1063         0140           Mail Room         516         3511         NBC NCO         TC 1063         0381           Material Handling Equip         1817         3105         Maintenance Management Officer         TC 862         0122	*					
Guard.         510         3979         Lo g Chief.         TC 1063         0128           Legal Officer.         516         5710         Embarkation NCO.         TC 1063         0140           Mail Room.         516         3511         NBC NCO.         TC 1063         0381           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122				5-4	IC 1063	
Legal Officer.         516         5710         Embarkation NCO.         TC 1063         0140           Mail Room.         516         3511         NBC NCO.         TC 1063         0381           Material Handling Equip.         1817         3105         Maintenance Management Officer.         TC 862         0122				Lan Chiat	<b>TO</b>	
Mail Room         516         3511         NBC NCO         TC 1063         0381           Material Handling Equip         1817         3105         Maintenance Management Officer         TC 862         0122		510	3979			
Material Handling Equip	Legal Officer	516	5710			
	Mail Room	516	3511			
Maintenance Management Chief	Material Handling Equip	1817	3105			0122
				Maintenance Management Chief	TC 862	0122

Organization	Bldg.	Phone	Organization	Bldg	Phone
					1 Hone
Aid Station	TC 1056	0267	2d MAINTENANCE BATTALION, 2d FSSG		
Armory  Career Planner	G 480 TC 1063	0395 0645	COMMUNIC OFFICER		
Communication Officer	TC 1063	0119	COMMANDING OFFICER	905	5423
Communication Officer	10 1059	0119	Executive Officer	905	5423
Communication Storeroom	TC 863	0125	Sergeant Major.	905	3903
Electronic Maintenance Officer	TC 952	0163	S-1/Adjutant Bn Admin	905 905	3903
Litetionic Mantenance Officer	10 732	0821	Dit Adiniti	905	3823
Engineer Maintenance Officer	TC 952	0130			1383 3903
Motor Transport Officer	TC 952	0135	Amory	FC 301	3742
MT Dispatcher	TC 952	0135	S-2	905	5283
OCA Officer	TC 1059	0391	Career Planner	905	3197
Personnel Officer	TC 1063	0645	Legal	905	1383
		0481	S-2/S-3	905	1796
S&C Officer	TC 1059	0764	Bn Lead Mech (Civilian)	905	3957
CMS Officer	TC 1059	0764	Mail Room	905	3989
TRANSEC Training Team	TC 1059	0115	Maintenance Control Section	905	5216
Supply Officer	TC 860	0310	Maintenance Material Unit	905	1724
Supply Chief	TC 860	0249		703	5295
Special Services	TC 1062	0381	Maintenance Shop Coordinators	905	3989
ITT, EW, Detachment 1	TC 1048	0323	Operations Officer	905	2706
ITT, EW, Detachment 11	TC 1048	0328	Operations Chief	905	3957
Barracks (Male)	G 523	0264	Operational Readiness Float	TP 448	1356
Barracks (Male)	G 524	0148			3350
Barracks (Female)	G 523	0169	Sergeant of the Guard	905	3686
Staff Duty NCO	TC 1063	0103	Training Officer	905	1796
		0175	S-4	905	5222
					3989
IEADQUARTERS & SERVICE COMPANY			Motor Transport Officer	909	3945
Commanding Officer	TC 1061	0542	Dispatcher	909	1470
		0361	Police Sergeant	105	3188
Executive Officer	TC 1061	0542	Special Services	905	5283
1st Sergeant	TC 1061	0361	Supply Officer	905	3553
Administrative Chief	TC 1061	0361			1749
Company Gunnery Sergeant	TC 1061	0542	Staff Duty	905	5423
Training/Education NCO	TC 1061	0542			3903
Duty NCO	G 524	0148			
COMPANY "A"			HEADQUARTERS & SERVICE COMPANY		
	TC 10/1	0.407	Commanding Officer	FC 555	3266
Commanding Officer	TC 1061	0427	Executive Officer	FC 555	3253
1st Sergeant	TC 1061	0160	Duty NCO	FC 555	1566
Administrative Chief	TC 1061	0160	ELECTRONICS MAINTENANCE COMPANY		
Operations Officer	TC 1061	0160	ELECTRONICS MAINTENANCE COMPANY Commanding Officer	1771	1005
Platoon Commanders	TC 1056	0544	Calibration Section	1771	1985
DF Platoon	TC-1056	0544	Cambradon Section	905	3370
Equipment Maintenance	TC 1056 TC-1055	0544	Maintenance Officer	1771	3279
Duty N CO		0284	wantenance Officer	1771	1985
Duty N CO	G 523	0264	Shop Officer	177 1	5410
COMPANY "B"			Duty NCO		1716
	TC 10/3	0070	Daty NCO	FC 560	1933
Commanding Officer	TC 1061 TC 1061	<b>0372</b> 0372	ORDNANCE MAINTENANCE COMPANY		
1st Sergeant.	TC 1061	0372		FC 550	
Admin Chief	TC 1061	0396	Commanding Officer	FC 550	5510
Operations Officer.			Let Sormant	FC 550	3983
Platoon Commanders	TC 1061	0396	1st SergeantArtillery Section	FC 550 901	3983 1927
Supply/Elint Platoon	TC 1058 TC 1057	0126 0146	Machine Shop		1837
	TC 1057	0126	Maintenance Control Officer	901	18 37
MC Platoon/RT Platoon	10.1000			901	1483
MC Platoon/RT Platoon	G 524		Optical Fire Control	900	5178
MC Platoon/RT Platoon	G 524	0148			
MC Platoon/RT Platoon	G 524 G 523	0264	Shop Office	901	
MC Platoon/RT Platoon			Shop Office	901 902	3882
MC Platoon/RT Platoon			Shop Office	901 902 902	3882 1484
MC Platoon/RT Platoon			Shop Office	901 902 902 901	1484 3875
MC Platoon/RT Platoon			Shop Office	901 902 902	3882 1484

Organization	Bldg	Phone	Organization	Bldg	Phone
2D MAINTENANCE BATTALION (Continued)			HEADQUARTERS & SERVICE COMPANY	FC 360	3271
ENGINEER MAINTENANCE COMPANY			Commanding Officer/1st Sergeant		
Commanding Officer	902	3912	Company Office	FC 360	2983
1st Sergeant	902	3912	COURT UN TEST		
Maintenance Control Office	902	1410	COMPANY "A"	40.5	1001
Shop Officer	902	3221	Commanding Officer	421	1921
Engineer Equip Records/Dispatcher	902	3379	Company Office	421	1372
Duty NCO	FC 555	1566	Lab & Phamacy Sick Call	421 421	5220 3200
MOTOR TRANSPORT MAINTENANCE COMBANY			SICK Call	421	2200
MOTOR TRANSPORT MAINTENANCE COMPANY Commanding Officer	FC 550	5610	COMPANY "B"		
Executive Officer	FC 550	5610	Commanding Officer	15	3441
1st Sergeant	FC 550	5610	Company Office	15	1364
Administrative Chief	FC 550	3647	Lab	15	1555
	1601	3848	Pharmacy	15	1097
Heavy Repair Platoon	1601	3848	Physical Exams	36	3236
Maintenance Officer	S-1507	3808	Sick Call	15	1762
Organic Section	1601	1428	X–Ray	15	1540
Supply Office			A-Ray	15	1,40
Duty NCO	FC 550	3647	COMPANY "C"		
GENERAL SUPPORT MAINTENANCE COMPANY			Commanding Officer/Clinical Supervisor	G 770	0105
Commanding Officer	FC 560	3528	Company Office	G 770	0322
1st Sergeant	FC 560	2976	Information Office	G 770	0371
Calibration Section	905	3370	Sick Call	G 770	0371
Caribiation Section	200	2706	Duty Corpsman	G 770	0136
Comm-Elect Platoon	900	5123	Duty Corpsilian	G 770	0130
End Items Repair Section.	909	3341			
•			2d SUPPLY BATTALION, 2d FSSG		
GSMR Platoon	902	3723	24 301 1 21 32 1 12 10 10 10 10 10 10 10 10 10 10 10 10 10		
Maintenance Management Office	900	3805 2992	COMMANDING OFFICER	FC 530	5619
Maintenance Management Office	700		COMMANDING OFFICER	FC 330	1810
Haintaganaa Chiaf	002	1989	Executive Officer	FC 530	1810
Maintenance Chief	902	3723	Executive Officer	FC 550	3444
Maint Control (Common ant Debuild Blatana	1/01	3805	Sergeant Majpr	FC 525	2035
Maint. Control/Component Rebuild Platoon	1601	1322	Seigeant wajpi	FC 323	3543
Duty NCO	FC 540	1024	Adjutant/Legal	FC 530	2963
Duty NCO	FC 560	1933	Aujutano Legar	FC 330	3444
			Battalion Admin	FC 530	3444
2d MEDICAL BATTALION, 2d FSSG			Datianon Aumin	1 0 330	1060
24 MEDICAL DATTALION, 24 1 300			Career Planner	FC 520	3638
COMMANDING OFFICER	FC 360	5621	S-3	FC 530	3418
COMMANDING OF FIGER	FC 300		Education Officer	FC 530	1758
Former Office	50.3/0	5493		FC 530	1758
Executive Officer	FC 360	1688	DAACO	FC 530	3418
MCPOC/Sgt Maj	FC 360	5621	NBCO		
S-1	FC 360	3817	NBC Section	914	3905
5.5	E0 2/2	1688	S4	FC 530	3405
S-3	FC 360	5308	Armory	FC 301	1439
S-4	FC 360	1006	Guard	FC 530	3418
Armory	27	3260	Embark Officer	FC 530	3405
BEQ Manager	FC 360	1006	Ordnance Officer	FC 530	3405
Career Counselor	FC 360	1006	Motor Transport	909	1797
Chaplain	FC 300	2682			2020
Communications	13	1649	Engineer Section	909	1797
Embark	13	3964			2020
		5113	Supply Officer	914	3905
Engineer Section	1819	1074			3146
		5113	Supply Chief	914	3146
MIMMS	1012	3157	Safety Officer	909	1797
Medical Supply	1012	1991			20 20
Motor Transport	1819	1074	STAP OIC	1317	1000
NRMC (TAD) Personnel	H-1	4302			5814
		4348	STAP Warehouse	1317	1436
		4528	Deployment Support Unit	916	3667
Organic Supply	1012	2973			2806
Sick Bay	421	3200	DSU Armory	103	1439
		5220	Duty Officer	FC 530	3405
Officer of the Day	FC 360	3817			3418
					1758

Organization	Bldg	Phone
PRESERVATION, PACKAGING & PACKING		
Officer in Charge	915	5230
Preservation Section	915	5224
Operations	915	1628
Box Shop	915	3187
Vehicle Preservation	909	3654
SASSY MANAGEMENT UNIT		
Officer in Charge	1108	3402
Operations	1108	5609
General Accounts	1108	2121
Customer Service	1108	3935
Inventory	904	1326
Maintenance Float	1211	5327
Deployment Support	916	2806
		3667
CIP Camp Geiger	TC 761	0342 0286
IS A DOUBLE TERM & SERVICE COURS AND		
HEADQUARTERS & SERVICE COMPANY Commanding Officer	FC 525	3543
•	FC 525	2035
1st Sergeantinventory	904	1326
•	FC 525	3543
Duty NCO	FC 323	3042
AMMUNITION COMPANY		•••
Commanding Officer	FC 525	1044
1st Sergeant	FC 525	2953
Operations Officer	SH 7	2114
	<b>-</b>	3812
Ammunition Supply Point	SH 7	2114
W05		3812
NOP	SH 8	2994
NOD Owned	CULO	3459
NOP Guard	SH 8	1302
EOD	1308	5419
Duty NCO	FC 525	1444 1044
RATIONS COMPANY		
	FC 520	<b>29</b> 33
Commanding Officer	FC 520	1722
1st Sergeant	1308	
Bakery	916	2966 3613
Mount Out/Armory	1117	1576
Ration Issue Point	FC 520	2933
buty NCO	FC 320	2755
SUPPLY COMPANY	1100	
Commanding Officer	1108	3908
1st Sergeant	1108	2972
Duty NCO	FC 530	2982
MEDICAL LOGISTICS COMPANY		
Commanding Officer	907	2059
Admin Chief	907	2618
Medical Repair	907	2059
Mount-Out Section	907	205
Duty NCO	FC-530	340
8th COMMUNICATION BATTALION, 2D FSSG		
	FC 300	396
COMMANDING OFFICER		
Executive Officer	FC 300	3262
	FC 300 FC 300	3262 3962

	Bldg.	Phone
S-3	FC 300	5203
Operations Chief/NBC NCO	FC 300	2316
Security Clearances	FC 300	2316
S-4	FC 300	1622
Maintenance Management Officer	FC 300	1622
Logistics Chief	FC 300	2730
Armory	FC 302	3696
Career Planner	FC 300	1889
Chaplain	FC 300	2682
Crypto Repair	FC 100	1866
CMS	FC 100	1866
CMCC	FC 300	5130
Dispatcher	FC-102	5149
Electronic Maintenance	FC 100	1323
Electronic Maintenance Officer	FC 100	3421
Embarkation Officer/NCO	EC 300	1323
	FC 300	1622
Legal Officer	FC 300	1611
Legal Chief	FC 300	3262
Mail Room/Locator	FC 300	1611
Medical Officer	FC 313 FC 313	5798
Chief		5125
Motor Transport Officer	FC 100	2923
Sickbay	FC 305	1923
Special Service's NCO	FC 300	1622
Supply Officer	1118	2962
Supply Chief	1118	2962
Supply Warehouse	1118	3691
WM Duty NCO	FC 415	3884
Officer of the Day	FC 300	3962 3 <b>2</b> 62
BEADQUARTERS COMPANY		
Commanding Officer	FC 305	3298
•	FC 305 FC 305	<b>3298</b> 1873
Executive Officer	FC 305	1873
Executive Officer	FC 305 FC 305	1873 3298
Executive Officer	FC 305 FC 305 FC-100	1873 3298 3661
Executive Officer	FC 305 FC 305	1873 3298
Executive Officer	FC 305 FC 305 FC-100 FC 305	1873 3298 3661 1873
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.	FC 305 FC 305 FC-100 FC 305 FC 306	1873 3298 3661 1873 3952
Executive Officer	FC 305 FC 305 FC-100 FC 305 FC 306	1873 3298 3661 1873 3952
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.	FC 305 FC 305 FC-100 FC 305 FC 306	1873 3298 3661 1873 3952
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 1679
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 1679 2952
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 1679 2952 5133
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 1679 2952 5133 1764
Executive Officer  1st Sergeant.  Generator Platoon  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 2952 5133 1764 5115
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 1605 TP 449 1118	1873 3298 3661 1873 3952 <b>2952</b> 1679 2952 5133 1764 5115 1782
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon  Police Sergeant.  Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 1605 1605 TP 449 1118 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 1679 2952 5133 1764 5115 1782 2952
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon  Police Sergeant.  Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY  Commanding Officer.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 2952 5133 1764 5115 1782 2952 1679
Executive Officer.  1st Sergeant. Generator Platoon. Duty NCO (After Working Hours). W.M. Duty NCO.  COMMUNICATION COMPANY Commanding Officer. Executive Officer. 1st Sergeant. Operations Officer. Communication Center Platoon. Radio Platoon. Warehouse Supply. Wire Platoon Police Sergeant. Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY Commanding Officer. Executive Officer.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 2952 5133 1764 5115 1782 2952 1679
Executive Officer.  1st Sergeant.  Generator Platoon  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon  Police Sergeant.  Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY  Commanding Officer.  Executive Officer.  Executive Officer.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 <b>2952</b> 1679 2952 5133 1764 5115 1782 2952 1679
Executive Officer.  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon  Police Sergeant.  Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY  Commanding Officer.  Executive Officer.  1st Sergeant.  Operations.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 2952 1679 1679 2952 5133 1764 5115 1782 2952 1679
Executive Officer  1st Sergeant.  Generator Platoon.  Duty NCO (After Working Hours).  W.M. Duty NCO.  COMMUNICATION COMPANY Commanding Officer.  Executive Officer.  1st Sergeant.  Operations Officer.  Communication Center Platoon.  Radio Platoon.  Warehouse Supply.  Wire Platoon Police Sergeant.  Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY Commanding Officer.  Executive Officer.  1st Sergeant.  Operations.  Comm Center Platoon.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 2952 1679 1679 2952 5133 1764 5115 1782 2952 1679 1945 1945 1945 1945
1st Sergeant. Generator Platoon. Duty NCO (After Working Hours). W.M. Duty NCO.  COMMUNICATION COMPANY Commanding Officer. Executive Officer. 1st Sergeant. Operations Officer. Communication Center Platoon. Radio Platoon. Warehouse Supply. Wire Platoon. Police Sergeant. Duty NCO (After Working Hours).  COMMUNICATION SUPPORT COMPANY Commanding Officer. Executive Officer. 1st Sergeant. Operations.	FC 305 FC 305 FC-100 FC 305 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306 FC 306	1873 3298 3661 1873 3952 2952 1679 1679 2952 5133 1764 5115 1782 2952 1679

Organization	Bldg	Phone	Organization	Bldg	Phone
8th COMMUNICATION BATTALION (Continued) LONG LINES COMPANY			BULK FUEL COMPANY Commanding Officer/1st Sergeant	FC 304	1487
Commanding Officer	FC 305	1982			1427
Executive Officer	FC 305	1982	Bulk Fuel Maintenance	18 <i>2</i> 8	1017
1st Sergeant	FC 305	1982			1095
Operations Officer	FC 305	1776	Bulk Fuel Supply	914	2961
Construction Platoon	1311	1404	Duty NCO	FC 304	1487
Multichannel Platoon	1312	3614			- 10
Supply	FC 305	1776	ENGINEER SUPPORT COMPANY		
Duty NCO	FC 305	1641	Commanding Officer/1st Sergeant	FC 311	1332
		1041	•	•	1345
8th ENGINEER SUPPORT BATTALION, 2d	FSSG		Duty NCO	FC 311	1345
COMMANDING OFFICER	FC 300	5703	BRIDGE COMPANY		
Executive Officer	FC 300	5703 1697	Commanding Officer/1st Sergeant	FC 304	37 58 1 40 2
S-1/Adjutant	FC 300	1697	Supply	1826	1969
S-2	FC 300	1693	Duty NCO	FC 304	3758
S-3	FC 300	1693	WM Duty NCO	F C 304	3758
Construction Officer	FC 300	1693			2.50
Drafting & Surveying	FC 300	5175	TOPOGRAPHICAL PLATOON		
S-4	FC 300	2622	Platoon Commander	FC 311	29 26
Armory.	FC 302	1883	Survey Section	FC 311	2926
Career Planner	FC 302	1889	Survey Warehouse	1116	1726
Chaplain.	FC 300	2682	arroy marchagorithms, and arrows	1110	1/20
Communications Officer	1117	1336			
Construction Platoon.	ES 101	1949	8th MOTOR TRANSPORT BATTALION, 2d F	:550	
Utilities Platoon	ES 200	1437		330	
Dining Facility			COMMANDING OFFICER	FC 400	5805
Heavy Equipment Officer	FC 303 FC 200	1390	Executive Officer	FC 400	1825
Legal Officer	FC 300	1082 1896	Sergeant Major.	FC 400	
Maintenance Officer			S–1/Adjutant	FC 400	1787
Medical Officer	FC 200	1739	S-2/S-3		2951
Bn Special Services.	FC 200	1632	5 2/5 2	FC 400	3922
Bn Police Sergeant	FC 300	1697	C 2 Training	TO 100	1820
Mobile Electric Power Operations Office	FC 301 1827	2997	S-3 Training S-4	FC 400	1820
Motor Transport Officer		1770	Armon/	FC 400	1684
Motor Transport Dispatcher.	FC 200	1848	Armory	FC 302	1376
Motor Transport Dispatcher	FC 200	1450	Battalion Dispatcher	926	3373
Motor Transport Operations	FC 200	18 22	Battalion Truckmaster	FC 101	1485
Special Services	FC 310	2 <del>9</del> 91	Career Planner	FC 400	1397
Supply Officer	FC 201	1687	Communication Section	FC 101	3745
		1055	Maintenance	FC 100	3574
Officer of the Day	FC 300	1697	Maintenance Supply	FC 100	3578
		5703	Medical Officer	FC 313	5798
UE / DOUI DE COA AND ADDINGO COMO			Maintenance Operations	FC 100	3866
HEADQUARTERS AND SERVICE COMPANY			Chief	FC 415	1808
Commanding Officer/1st Sergeant	FC 309	1968	Supply Officer	1118	5274
Duty NCO		1415	000 (0) 0		1495
Duty NCO	FC 309	1968	Officer of the Day	FC 400	2951
COMPANY "A"			HEADQUARTERS & SERVICE COMPANY		
Commanding Officer/1st Sergeant	FC 310	2991	Commanding Officer/1st Sergeant	FC 416	1841
		1417			1970
Heavy Equipment MT Officer	FC 200	1082	Duty NCO	FC 416	1841
Duty NCO	FC 310	2991			
			TRANSPORT COMPANY		
COMPANY "B"			Commanding Officer/1st Sergeant	FC 416	3988
	FC 309	1325			1406
Commanding Officer/1st Sergeant		2981	Dispatcher	FC 101	1485
					1898
Heavy Equipment MT Officer	FC 200	1822			
Heavy Equipment MT Officer	FC 200 FC 309	1822 1325	Duty NCO	FC 416	3988
Heavy Equipment MT Officer				FC 416	3988
Heavy Equipment MT Officer	FC 309		TRUCK COMPANY		3988
Heavy Equipment MT Officer				FC 416	3988 3884
Heavy Equipment MT Officer.  Duty NCO	FC 309	1325	TRUCK COMPANY Commanding Officer/1st Sergeant		
Heavy Equipment MT Officer.  Duty NCO	FC 309	1325 <b>2971</b>	TRUCK COMPANY Commanding Officer/1st Sergeant		3884
Commanding Officer/1st Sergeant	FC 309	1325 2971 1413	TRUCK COMPANY Commanding Officer/1st Sergeant	FC 415	<b>3884</b> 1636

Organization	Bldg.	Phone
SEPARATE COMPANIES, 2d FSSG		
2d AIR AND NAVAL GUNFIRE LIAISON COMPA	IY, 2d FSSG	;
COMMANDING OFFICER	FC 400	5016
Executive Officer	FC 400	3415
Company 1st Sergeant	FC 400	5278
S-1	FC 400	3464
S-3	FC 400	1002
		5001
S-4	FC 400	148]
		5001
Adjutant	FC 400	3464
Armory	FC 302	1376
Communications Officer	FC 251	3483
Communications Chief	FC 251	3591
Education	FC 414	1912
Embarkation	FC 414	1481
Engineer Section	FC 251	3483
		_

 Gunnery Sergeant
 FC 414

 Human Relations
 FC 414

 Legal
 FC 400

Parachute Loft.....

Brigade Platoon 1.
Duty NCO.
Duty Officer (After 1630).....

FC 400 FC 251

FC 260

FC 414

FC 414

FC 400

Organization	Bidg	Phone
2d FORCE RECONNAISSANCE C	OMPANY, 2	FSSG
COMMANDING OFFICER	FC 400	1403
Executive Officer	FC 400	1403
1st Sergeant	FC 400	1676
5–1	FC 400	1676
5–2	FC 400	1411
5~3	FC 400	2225
S-3A	FC 400	1411
S-4	FC 400	3545
Communications Officer	FC 251	1816
Motor Transport	FC 251	1664
Parachute Loft	FC 260	1863
		1342
Platoon Commanders	FC 520	1350
Scuba Locker	FC 260	1342
Supply Officer	FC 520	1350
Supply	107	1816
		1492
Duty NCO (After 1630)	FC 520	1350

# FLEET MARINE FORCE ATLANTIC

# Marine Amphibious Units

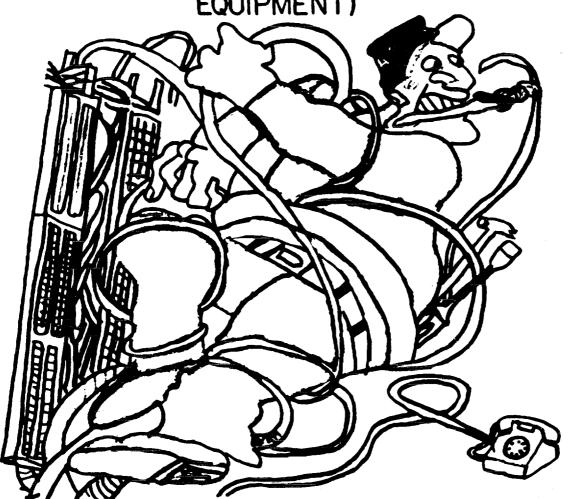
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# Landing Support Units

Organization	Bldg	Phone
MAU		
Commanding Officer	TC 727	0713
Executive Officer	TC 727	0713
S-2	TC 727	0748
S-3	TC 727	0167
ALO	TC 727	0364
FSC	TC 727	0364
S-4	TC 727	0167
CEO	TC 727	0364
Comm Chief	TC 727	0748
Comm Warehouse	TC 724	0866
Duty NCO	TC 709	0760
Officer of the Day	TC 727	07 13

Organization	Bldg	Phone	
MSSG			
Commanding Officer	TC-726	0340	
Executive Officer	TC-726	0340	
1st Sergeant	TC-726	0276	
Admin	TC-726	0340	
Operations Officer	TC-726	0276	
Supply Officer	TC-726	0276	
Dental	Vic TC-745	0496	
Maintenance Officer	TC-726	0789	
Motor Pool	TC -942	0178	
Duty NCO	TC-726	0287	

HELP (DON'T TAMPER WITH TELEPHONE EQUIPMENT)



Organization	Bldg	Phone	Organization	Bldg	Phone
DIALING INSTRUCTIONS			Facilities Plans	820	455–6506 * 6281
To call MCAS Official Telephones from Camp Lejeur Class "A" Dial 9, wait for second			Facilities Operation	820	455–6518 * 6281
		•	Police Sergeant	814	* 6061
Class "C" Dial listed number  of listed number	hree dig	its	Caretaker MCHOLF Oak Grove		224-6941
Applies to 455–6xxx numbers only			HEADQUARTERS AND HEADQUARTE	RS SQUA	DRON
To call MCAS from Jacksonville Telephones - dial	listed nu	mber	COMMANDING OFFICER	818	455–6108
T			Executive Officer	818	455-6108
To call Camp Lejeune Official Telephones from MCA		•	Adjutant	818	455-6108 * 6070
wait for second dial tone and listed number	e, qiai 4	151	Administration Chief	81 8 818	* 6070 455–6107
and risted number			Chief Clerk	818	* 6978
Camp Lejeune Directory Assistance		0-1115	Dining Facility	226	455-6811
		* 6255	Reenlistment & Discharge	818	455-6107
Camp Lejeune Operator		0-1113			455-6108
Cherry Point "4" Ask Operator	for Cher	ry Point	Driver's Safety	312	455-6329
Time/Temperature		4550000	Training	815	* 6046
Locator		455-6508	T		4556662
* On Station Calls Only			Training NCO	312	* 6209
			Duty NCO	212	4556043
EMERGENCY NUMBERS			_		
			<b>A</b> •		
FIRE/CRASH		455-6333			
MILITARY POLICE		455-6111	ADJUTANT	820	455-6305
AMBULANCE		455-6666	ADMINISTRATION CHIEF	820	455-6503
DUTY NUMBERS			AEROLOGY	843	455-6828
Officer of the Day	122	455-6111			400-0020
	122	455-6111	AIRCRAFT MAINTENANCE OFFICER	840	455-6627
	302	455-6512			455-6626
	843	455-6316			
			AIR OBSERVATION SCHOOL	4120	455-6527
OFFICERS OF THE DAY					*6087
Marine Corps Air Station	122	455-6111	AIR/SEA RESCUE	504	455-6150
	504	4556126	After Working Hours	504	455-6126
Marine Air Group 29	4122	455-6320	•		
MATCS-28	G 1	451-0202	AIR TRAFFIC CONTROL OFFICER	843	455-6657
			AMBULANCE SERVICE	302	455-6666
HEADQUARTERS, MARINE CORPS AIR STA	ATION	(H)	AREA AUDITOR	312	455-6526
COMMANDING OFFICER	820	455-6305			* 6457
Executive Officer	8 20	455-6306			
Sergeant Major	820	455-6306			
Adjutant	820	455-6307	ATHLETIC OFFICE	202	455-6714
Administrative Chief	820	4556503			
S&C Files/RPS	8 20	455-6307	AUTOMOTIVE HOBBY SHOP	828	455-6709
S-1	820	455-6358	AVIATION SAFETY OFFICER	843	4EE 4211
Personnel Officer	820	* 6075	AVIATION SAFETT OFFICER	043	455–6311
	820	* 6075 * 6922	AVIATION TRAINING	312	455-6869
Civilian Personnel	818	455–6702	AVIATION TRANSMIC SURFACES OF STATE		
•	843	<b>455–</b> 6312	AVIATION TRAINING SUPPORT CENTER	224	155 1740
The second contract of the second contract of	843	455-6311	Officer in Charge	320	455-6673 * 6062
	849	455-6774	NCOIC	330	OOUL
S-4	820	4556506 4554519	NCOIC	320	455–6673 * 6062
		455-6518 * 6281	NTEC Rep LANT	320	455-6670
			THE TOP EMPLOYEE	J20	100000
Chief	820	* 6068 * 6281			

Organization	Bldg	Phone	Organization	Bldg.	Phone
HEADQUARTERS, MARINE CORPS AIR STATION	N (Contin	ued)	COMMISSARY	414	455-6395 455-6396
BACHELOR OFFICERS QUARTERS	705	455-6621	COMMISSIONED OFFICERS MESS (OPEN)	710	347-4149
Ready Pilot	705	* 6265	Ready Pilot	710	* 6409
BANK OF NORTH CAROLINA, N. A	200	455-6624	COMMUNICATION-ELECTRONICS Communication-Electronics Officer	822	455 <u>-</u> 6774
0900 - 1800 All Military Paydays			Communication Chief	822	* 6974
			Communication Center Officer	822	455-6741
BARBER SHOP			Communication Center Supervisor	822	* 6083
MAG-29 MCAS(H)	4126 232	455-6538 347-2168	Ground Electronics	849	455-6146 * 6495
BARRACKS (Enlisted Men)		J., 2100			01,73
H&HS	211	* 6249	COMPTROLLER	130	455-6638
H&MS-26	4020	<b>*</b> 6246	Accounts Maintenance	130	455-66 84
H&MS-29	4010	<b>*</b> 6452	Cost Reduction Coordinator	130	455-6769
HMH-269	4025	* 6959	Deputy Comptroller	130	455663 8
HMH-362	4010	* 6951	Fiscal Officer	130	455-6675
HMH-461	4015	* 6957	Payroll/Timekeeper	130	455-6769
HMM-162	212	* 6043	CONSOLIDATED CLUB MANAGEMENT SYSTEM	701	/FF /AC-
UMM 2/1	213	* 6003	CONSOCIDATED CLOB MANAGEMENT 3121 FW	706	455–6301
HMM-261	213	* 6003	CORRECTIONAL CHATARY THE		
HMM263	4015	* 6992	CORRECTIONAL CUSTODY FACILITY	211	455-6343
HMM-365	4020	* 6440			6443
HMT-204	4020	* 6440	CONSOLIDATED DACKAGE CTODE		
MABS-26	4020	* 6413 * 6950	CONSOLIDATED PACKAGE STORE	901	455-6849
MABS-29	4025	0750	COUNCELING CENTER	0.40	155 155
MWSG-27	213	455-6562 * 6251	COUNSELING CENTER	240	455-6579
HML-167 VMO-1	4026	0231			* 6415
VMU-1	4025	<b>*</b> 6950	COUNTERINTELLIGENCE OFFICER	312	AEE 4007
BASIC TRAINING	312	* 6209	SOURIE CONTENTS OF THE PROPERTY OF THE PROPERT	312	455–6897 * 6403
BEAUTY SHOP	232	347 – 4377	CRASH CREW	<b>502</b> 18	455-6629
BELL HELICOPTER FIELD OFFICE	425	347-5630	Fire ChiefFire Barn.	502	455–6333 455–6620
BOAT DOCKS	2800	455-6578	Truck Master.	502 <b>42</b> 3	455-6629 455-6887
BOEING YERTOL		347-1311	CUSTODIAN RECREATION FUND	202	455-6628
BOWLING CENTER	205	455-6582	CRIMINAL INVESTIGATION DIVISION	122	455-6639
BOY SCOUT LODGE	608	455-6820			
			D		
С			DATA EDOCUCIO		0
CERAMICS HOBBY SHOP	811	455-6711	DATA PROCESSING	130	455-6361
CHAPEL	236	455-6801	DeLALIO ELEMENTARY SCHOOL	TC15	00 451-0601
			DENTAL DEPARTMENT		
CHAPLAINS			Dental Officer	302	455-6893
Catholic	236	455-6706	Dental Appointments	302	455-6515
Protestant	236	455–6801			455-6516
CHILD CARE CENTER	604	455-6712	DISBURSING OFFICER	425	455-6371
CIVILIAN PERSONNEL	818	4EE /700	Fiscal Section	425	455-6371
CITILIAN I ERSONNEL	818	455-6702	OIC Pay Records	425	455-6371
CLEANERS	412	3/9 59/6	OIC Pay Section	425	455-6371
CLEARERS	413	347-5748	Pay Section	12E	455-6371
CLUBS			Travel Section	425 425	455-6371
Officers	710	247 4140	Havel Jection	425	* 6041
OHIOGIJA ATTACA	110	347-4149 * 6400			455–6583
Staff NCO	901	* 6409 4556707			
Staff NCO Bar	901	* 6411			
		<b>♥ 144</b>			
Enlisted	208	* 6404			

					•
Organization	Bldg.	Phone	Organization	Bldg.	Phone
DISPENSARY (See MEDICAL SECTION)		·	Н		
_			H&HS TRAINING	570	455–6586
E			HEATING PLANT	4151	455-6539
EDUCATION OFFICER	312	<b>4556153</b> 455-6680	HOBBY SHOPS		
		* 6233	Automotive	828	4556709
mump make make (M. I.).	122		Ceramics	811	455~6711
EMERGENCY DESK (Public Works)	1 <b>22</b> 1 <b>2</b> 02	<b>455–6817</b> 451–3001	Woodworking	827	455–6690
	****	,51 5001	HOUSING (Family)- See Page 23		
ENLISTED POOL	202	* 6436	1		
EXCHANGE (See Marine Corps Exchange)					
			INTELLIGENCE OFFICER	312	455-6897
F			INVESTIGATIVE SERVICE (CID)	122	455-6639
FILM LIBRARY	312	455-6676	ISSUE POINT MLY 73	124	455-6529
FIRE DEPARTMENT	••				
Crash/Fire Reporting	18 502	455-6333 455-6620	J		
Fire Chief	502	455–6629	JOINT PUBLIC AFFAIRS	804	455-6197
					455-6198
FISCAL OFFICER	130	455-6675	JOINT RECEPTION CENTER		
FOOD SERVICES			OIC	211	455-6554
Dining Facility Officer	820	455-6506	NCOIC	211	455-6568
		455-6518	Admin Section	211	* 6906
Station Food Tech	210	455-6811	Station Locator	211 211	455-6508 455-6568
Dining Facility 226.	218 226	455–6710 455–6151	2.00	211	-0000
	LLO	455-6811			
Dining Facility 4012	4012	455–6851	L		
FOOD SERVICE TECH	218	455-6710	LAUNDRY	413	347-5748
FLIGHT CLEARANCE	843	* 6968	LAW CENTER, MCAS (H) - 2D MAW		
			Director	216	455-6169
FLIGHT SUPPORT	843	455-6311	Trial Counsel	216	455–6160 * 6207
FLYING CLUB	831	347-7146	Court-Martial Docket Section	216	* 6207
			Admin/Discharge Section	216	* 6096
FUEL FARMACE, at 3	1.40	4PP 4444	Legal Assistance	216 216	* 6096 * 6006
FUEL FARM (Station)	143	455-6644		210	* 6096
G			LIBRARY	201	455-6715 * 6942
Ğ					0742
GAME WARDEN	814	455-6111	LOCATOR	211	4556508
GAS STATION	410	347-5681	LOGISTICS	820	455-6506
GROUND ELECTRONICS	849	455-6146	14		
Code 33 Field Officer – NAVELEX	849	* <b>6495</b> 455–6598	<b>M</b>		
GROUND SAFETY OFFICER	820	* 6068	MAIN GATE		<b>451-0849</b> 455-6111
GYMNASIUM	202	455–6714	MARINA	2800	455-6578

Organization	Bldg.	Phone	Organization	Bldg	Phone
HEADQUARTERS, MARINE CORPS AIR STATION	(Continue	d)	0	<del></del>	
MARINE CORPS EXCHANGE Exchange Manager	232	3472168	OFFICERS CLUB	710	347-4149
Barber Shop	232	347-2168			047 4147
Beauty Shop	232	347-4377	OPERATIONS DEPARTMENT		
Bowling Center Snack Bar	205	455-6582	Operations Officer	843	455-6312
Cleaning & Pressing Shop	413	347~5748	Operations Chief	843	455-6313
MAG-29 Barber Shop	4126	455-6538	Aerology Officer	843	4556828
MAG-29 Exchange	4126	455-4144	Aviation Safety Officer	843	455-6311
Porta-Snack Bar		455-6736	Duty Operations Officer	843	455-6316
Service Station	410	347-5681	Flight Clearance	843	455-6317
Seven Day Store	233	455-1717	r fight Clearance	043	455-6316
Snack Bar/Pizza Parlor/Service Club	208	455-6661	Flight Manifesting Information	843	455-6827
Optical Shop/Watch Repair	232	347-2169		843	455-6311
		) // L10/	Flight Support		
MARINE CORPS PROPERTY	130	455-6694	Meterology.	843	455-6828
MARINE CORI 3 I ROFERT J	130	-6602	VIP Lounge.	843	455-6827
MAINTENANCE		-6356	Visiting Aircraft Lines	843	455-6316
	122	•	Weather Officer	843	455-6828
Routine	122	455-6817	Weather Information	843	4556322
Emergency	122 1202	455-6816	P		
		451-3001	r		
Shop Planner	122	45567 19	PACIFIC MISSLE TEST CENTER	4106	455-6855
MATERIAL (MCAS)	840	* 6228	I MOIT TO MIGORIE TEST CENTIFIC	4100	400-0000
man and a financial financ	540	0220	PHOTOGRAPHIC ANNEX		
MEDICAL DEPARTMENT- NRMC			NCOIC	804	455-6826
	202	455 (510		004	455-0020
Medical Officer	302	455-6512	PHYSICAL FITNESS CENTER	202	455-6714
Administrative Officer	302	455-6513	FRISICAL FIIRESS CENTER	202	400-0/14
Ambulance	302	455-6666	POST OFFICE	22.4	4FF 7F01
Aviation Exam		4556514	Military Post Office	<b>234</b> 234	<b>455-6501</b> 455-6501
Health Records.	302	455–6511	military   Ost Office	254	1000-001
Information	302	455-6512	PRATT-WHITNEY LOGISTICS REP		347-6530
Laboratory	302	455-6500	TRATI-WITTEL LOUISINGS REF		34/-0330
Pharmacy		455-6511	PROVOST MARSHAL SECTION		
Thumbacy		455-6512	Assistant Provost Marshal	122	455-6111
			Criminal Investigation Division (CID)	122	455-6639
		455–6514	MCAS(H) Desk Sergeant	122	455-6111
			Naval Investigative Service	122	455-6111
MOTOR TRANSPORT DEPARTMENT			•		
Motor Transport Officer	118	AEE /70E	PUBLIC AFFAIRS	804	455-6197
Dispatcher	117	4556705			455-6198
Foreman	117	455-6558 455-6843			433-0170
			PUBLIC WORKS DEPARTMENT		
Heavy Equipment	119	02,77	OICC/ROICC Construction Inspection Branch.	122	4556141
Licensing Maintenance Leadingman	119	OL)	Buildings and Grounds	121	455–6543
Maintenance Leagingman,	118	455–6705	Maintenance & Utilities Division		
THE MANUE Delivery Color I					
2d MAW Drivers School		451-0439	Director	122	455-6818
2d MAW Drivers School			DirectorHeating Plant	122 4151	455-6818 455-6539
2d MAW Drivers School			Director	4151 110	
2d MAW Drivers School	TC 1130	451-0439	Director	4151	455-6539
2d MAW Drivers School			DirectorHeating Plant	4151 110	455–6539 455–6721 .
2d MAW Drivers School	TC 1130	451-0439 455-6394	Director	4151 110 3526	455–6539 455–6721 . 455–6723
2d MAW Drivers School	TC 1130	451-0439	Director	4151 110 3526 122	455-6539 455-6721 455-6723 455-6816
2d MAW Drivers School	TC 1130	451-0439 455-6394	Director	4151 110 3526 122 122	455-6539 455-6721 455-6723 455-6816 455-6816
2d MAW Drivers School	TC 1130 4141 518	451-0439 455-6394 455-6841	Director	4151 110 3526 122 122 122	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816
2d MAW Drivers School  N NAESU NAESU/NETS COORDINATOR NAMTD-1027 Officer in Charge	TC 1130 4141 518 222	451-0439 455-6394	Director	4151 110 3526 122 122 122 122	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816 455-6816
2d MAW Drivers School	TC 1130 4141 518	451-0439 455-6394 455-6841	Director.  Heating Plant.  Water & Sewage Plants Head.  Leadingman, Building Trades.  Leadingman, Emergency Service.  Leadingman, General Service.  Leadingman, Maintenance.  Leadingman, Mechanical Trades.  Leadingman, Utilities Branch.  Maintenance Scheduler.	4151 110 3526 122 122 122 122 122	455-6539 455-6721 . 455-6723 455-6816 455-6816 455-6816 455-6816 455-6816
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD-1027 Officer in Charge. Administration Officer.	TC 1130 4141 518 222 222	455-6394 455-6841 455-6610	Director.  Heating Plant.  Water & Sewage Plants Head.  Leadingman, Building Trades.  Leadingman, Emergency Service.  Leadingman, General Service.  Leadingman, Maintenance.  Leadingman, Mechanical Trades.  Leadingman, Utilities Branch.  Maintenance Scheduler.  Quarterman.	4151 110 3526 122 122 122 122 122 4151	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816 455-6816 455-6839
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD-1027 Officer in Charge. Administration Officer.	TC 1130 4141 518 222	455-6394 455-6841 455-6701	Director.  Heating Plant.  Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch.  Maintenance Scheduler. Quarterman. Sewage Treatment Plant.	4151 110 3526 122 122 122 122 122 4151 122	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816 455-6816 455-6816 455-6539 455-6818
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD-1027 Officer in Charge. Administration Officer.	TC 1130 4141 518 222 222	455-6394 455-6841 455-6610	Director.  Heating Plant.  Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch.  Maintenance Scheduler. Quarterman. Sewage Treatment Plant.	4151 110 3526 122 122 122 122 122 4151 122 122	455-6539 455-6721 455-6816 455-6816 455-6816 455-6816 455-6816 455-6539 455-6818 455-6818
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD—1027  Officer in Charge.  Administration Officer.  NAVY RELIEF	TC 1130 4141 518 222 222	455-6394 455-6841 455-6610 455-1174	Director.  Heating Plant.  Water & Sewage Plants Head.  Leadingman, Building Trades.  Leadingman, Emergency Service.  Leadingman, General Service.  Leadingman, Maintenance.  Leadingman, Mechanical Trades.  Leadingman, Utilities Branch.  Maintenance Scheduler.  Quarterman.	4151 110 3526 122 122 122 122 122 4151 122 122 3526	455-6539 455-6721 455-6816 455-6816 455-6816 455-6816 455-6816 455-6539 455-6818 455-6818 455-6723
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD=1027 Officer in Charge. Administration Officer.  NAYY RELIEF	TC 1130 4141 518 222 222	455-6394 455-6841 455-6610 455-1174	Director. Heating Plant. Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch. Maintenance Scheduler. Quarterman. Sewage Treatment Plant. Water Treatment Plant. Transportation Division	4151 110 3526 122 122 122 122 122 4151 122 122 3526	455-6539 455-6721 455-6816 455-6816 455-6816 455-6816 455-6816 455-6539 455-6818 455-6818 455-6723
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD=1027 Officer in Charge. Administration Officer.  NAYY RELIEF	TC 1130 4141 518 222 222 299	455-6394 455-6841 455-6610 455-1174 * 6431	Director. Heating Plant. Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch. Maintenance Scheduler. Quarterman. Sewage Treatment Plant. Water Treatment Plant. Transportation Division Transportation Officer.	4151 110 3526 122 122 122 122 122 4151 122 122 3526 110	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816 455-6816 455-6818 455-6818 455-6818 455-6723 455-6721
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD=1027 Officer in Charge. Administration Officer.  NAVY RELIEF  NAVAL INVESTIGATIVE SERVICE	TC 1130 4141 518 222 222 299	455-6394 455-6841 455-6610 455-1174 * 6431 455-6668	Director. Heating Plant. Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch. Maintenance Scheduler. Quarterman. Sewage Treatment Plant. Water Treatment Plant. Transportation Division	4151 110 3526 122 122 122 122 122 4151 122 122 3526 110	455-6539 455-6721 455-6816 455-6816 455-6816 455-6816 455-6816 455-6839 455-6818 455-6818 455-6721
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD=1027 Officer in Charge. Administration Officer.  NAVY RELIEF  NAVAL INVESTIGATIVE SERVICE	TC 1130 4141 518 222 222 299	455-6394 455-6841 455-6701 455-6610 455-1174 * 6431 455-6668 455-6111	Director. Heating Plant. Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch. Maintenance Scheduler. Quarterman. Sewage Treatment Plant. Water Treatment Plant. Transportation Division Transportation Officer. Dispatcher. Work Reception Desk	4151 110 3526 122 122 122 122 122 4151 122 122 3526 110	455-6539 455-6721 455-6816 455-6816 455-6816 455-6816 455-6839 455-6818 455-6818 455-6721 455-6721
2d MAW Drivers School  N NAESU  NAESU/NETS COORDINATOR  NAMTD_1027 Officer in Charge. Administration Officer.  NAYY RELIEF  NAVAL INVESTIGATIVE SERVICE	TC 1130 4141 518 222 222 299	455-6394 455-6841 455-6701 455-6610 455-1174 * 6431 455-6668 455-6111	Director. Heating Plant. Water & Sewage Plants Head.  Leadingman, Building Trades. Leadingman, Emergency Service. Leadingman, General Service. Leadingman, Maintenance. Leadingman, Mechanical Trades. Leadingman, Utilities Branch. Maintenance Scheduler. Quarterman. Sewage Treatment Plant. Water Treatment Plant. Transportation Division Transportation Officer. Dispatcher.	4151 110 3526 122 122 122 122 122 4151 122 122 3526 110	455-6539 455-6721 455-6723 455-6816 455-6816 455-6816 455-6816 455-6818 455-6818 455-6818 455-6723 455-6721

Organization	Bldg.	Phone	Organization	Bldg	Phone
R			SPECIAL SERVICES OFFICER	204	455-6704
RED CROSS (See Marine Corps Base Listing)			NCOIC	204	* 6229 455–6704
REFUELER (Station)	143	455 4444	Athletics	204	4556714
REFUELER (STATION)	526-A	455–6644 * 6445	Auto Hobby Shop Bookkeeper	828 204	455-6709 455-6628
	010-A	0443	Bowling Center	205	455-6582
REGISTERED PUBLICATIONS OFFICER	820	455-6503	Ceramics Hobby Shop	811	455-6711
			Custodian	204	455-6628
ROICC	122	455-6141	Gymnasium	204	4556714
ROTOVUE			Issue Room	204	455-6704
KO1040E	804	455-6197	Library	201	4556715 * 6942
			Marina	2800	4556578
S			Theater	240	* 6292
			Weight Room	204	455-6714
S-1 MCAS	818	455-6358	Woodworking	827	455-6690
Personnel.	818	* 6075	STATION LOCATOR		
Civilian Personnel	818	455-6702 * 6075	STATION LOCATOR	211	455-6508
Jerrice3,	818	* 6075	SUPPLY DEPARTMENT		
S-3 MCAS	843	455-6312	Supply Officer	130	455-6356
Operations Chief	843	455-6313		130	* 6247
Airfield Operation Officer	843	455-6311			* 6247
Aviation Safety Officer	843	455-6311	NCOIC	130	* 6247
Air Traffic Control Officer	843	4556657			455-6356
f			Customer Service Division	130	455-6631
S-4 MCAS	820	455-6506	<b>-</b>		* 6247
		4556518	Flight EquipmentFuel Division	130	455-6357
		* 6281 * 6068	Fuel Division Maintenance	130	* 6006
Chief	820	* 6068 * 6281	r der bivision maintenance	Vic 520	
Omer.	620	* 6068	Material Branch	130	* 6941 455–6678
Facilities Plans	820	455-6506		150	* 6980
		* 6281	Property Control Division	130	455-6602
Facilities Operation	820	455-6518	Station Supply	130	455-6356
		* 6281	Training Editing Section	130	455-6631
Police Sergeant	814	* 6061	Warehouse Division.	130	455-6553
Ground Safety Officer	820	455-6506	Warehouse Chiet	130	455–6553
Caretaker MCHOLF Oak Grove		* 6068 224=6941			
- Survey and the Control of the Cont		224=0741	т		
SCHOOLS					
Brewster Junior High	40	451-2561	TACAN	3000	* 6230
DeLalio Elementary School		451-0601	TECHNICAL REPORCEMENTATIVE		
Lejeune High	825	451–2451	TECHNICAL REPRESENTATIVES Bell		347 5430
SCOUT LODGE	608	455-6820	General Electric	589	347-5630 346-4998
	008	433-0020	Pratt-Whitney	207	347-5630
2D MARINE AIR WING PERSONNEL SUBSECTION	Ж		NAESU/NETS	518	455-6841
OIC	211	455-6554			
NCOIC	211	455-6568	TELEPHONE OFFICER	1104	451-2531
Admin Section	211	* 6912	T. I. D. i. om		455-6831
Station Lagran	011	* 6906	Telephone Business Office	1104	451-2531
B 4 NG6	211	455-6508			455-6831
buty NGO	211	4556568	THEATER	240	* 4202
SELF SERVICE CENTER	130	455-6553		470	* 6292
			TME-22		
SERVICE CLUB	208	* 6404	Officer in Charge	4120	455-6613
CERVICE CTATION			NCOIC	4120	* 6238
SERVICE STATION	410	347-5681	Monitors	4120	455-6785
			CHARLES OF THE COLUMN TO THE C	4120	* 6017
			TME-22 SUB-UNITS	4120	455-6613

Organization	Bldg	Phone	Organization	Bldg	Phone
HEADQUARTERS, MARINE CORPS AIR STATION	(Continu	ed)	MAINTENANCE DEPARTMENT		
V			Airframes Officer	518	455-6682
	0.40	(75 /83/	Analysis Officer	518	455-6517 * 6014
VISITING AIRCRAFT LINES	843	455-6316	Avionics Officer	4141	455-6116
			Avionics Chief	4141	* '6065
			Avionics 610	4141	* 6483
W			Avionics 620	4141	* 6939
W. BEMOURE			Component Shop	518	* 6921
WAREHOUSES	100	+ (000	Engine Shop	518	455-6839
Supply	130	* 6980	Flight Equipment	504	455-6864
WATER TREATMENT PLANT	110	455-6721	r right Equipment :	50 1	* 6481
WEATHER SERVICE	843	455-6322	Ground Support Equipment	4146	455-6708
Meteorological Radar Van	860	* 6057	Clouds support 2 quipmonts		* 6494
meteororogical Nadal Vall	000	1000	LMRL	424	455-6659
WING PERSONNEL ASSIGNMENT DET	4120	455-6554		,	* 6430
		455-6568	Maintenance Officer	518	455-6346
		* 6906	Assistant Maintenance Officer	518	455-6347
		<b>0,00</b>	Maintenance Chief	518	455-6380
WOMEN MARINES SECURITY	4015	* 6979	Maintenance Control	518	455-6161
Duty NCO.	4015	* 6282			* 6073
	.725	3202	Material/ASU	518	455-6521
					* 6434
HEADQUARTERS MAG-26			Ordnance Officer	518	455-6837
			Power Plants	518	<b>*</b> 6905
			Test Cell	537	* 6919
COMMANDING OFFICER	504	455-6126	Test Equipment	4141	455-6561
Executive Officer	504	455-6126	Quality Assurance	518	455-6681
Sergeant Major	504	4556581	Material Officer	424	* 6200
Adjutant	504	4556126	NATOPS	504	* 6988
		455-6127	Public Affairs Officer	804	455-6197
		455-6128	Rapid Refueler	509	* 6237
S-2	504	455-6137	S&C Files	504	455-6652
Intelligence Chief	504	455-6727	SUPPLY DEPARTMENT		
S-3/Operations Officer	504	455-6150	Supply Officer	424	455-6594
		* 6009	Supply Chief	424	455-6823
Operations Chief	504	455-6360	GASSC Officer	425	455-6540
0.00		* 6082	SRS/SCS	425	455-6745 * 6916
S-4/Logistics Officer	504	455-6101	NORS Clerk	425	* 6916 * 6972
Lamination Object	504	* 6063	RMS/IMRL	423	455-6659
Logistics Chief.		455-6734	AWP	518	* 6434
Building & Grounds Officer Work Request Control	504 504	455-6101 455-6734	SSS	504	455-6725
Career Planning Center	312	455-6525		50 .	* 6080
Central Files	504	* 6995	SAS	425	* 6472
Chaplain	504	455-6188	ADP	425	455-6697
Communications Officer.	3502	* 6945	Pool/CCS	518	455-6521
Communications Chief	3502	* 6223	CMS	424	* 6210
Radio Chief	3502	* 6958	Marine Corps Property	424	455-6824
MAG-26 Communications Center	504	* 6913	Warehouse	424	* 6213
Embarkation Officer	504	* 6967			
Embarkation Chief	504	* 6967	Technical Representatives		
Fiscal	504	455-6746	Bell		347-5630
Flight Line Shack	504	* 6263	Pratt-Whitney		347-5630
GMS Training	504	* 6930	Tool Control	518	4556839
Ground Safety Officer	504	455-6730	Training	504	455-6735
Group Guard	518	* 6433			* 6930
Guard Shack	518	455-6342	Duty Officer	504	455-6126
Human Relations	504	* 6458			
Informational Services Officer	804	4556197	H&M\$-26		
Inspector	504	455-6734			
Leadership/Special Services	504	455-6136	COMMANDING OFFICER	518	455-6326
Locator	211	455-6508	Executive Officer	518	455-6327
MMS/TAD Orders Clerk/Repro	504	* 6497	Sergeant Major	518	455–6327
			Adjutant	518	455-6327
			1st Sergeant	518	<b>*</b> 6439
			S-1 Unit Diary	518	4556551

Organization	Bidg	Phone	Organization	Bldg	Phone
S-2	518	455-6517 * 6014	HMH461		
S-4	518	455-6544	COMMANDING OFFICER	504	4556640
		* 6976	Executive Officer	504	455-6640
Administration Chief	518	* 6976	Sergeant Major	504	* 6074
Armory	518	* 6909	Administration/S-1	504	455-6548
Avionics Production	4141	* 6939	Aircraft Maintenance	504	455-6743
Battery Shop	518	* 6278	Aviation Safety	504	* 6067
Career Planner	518	* 6000	Avionics	504	* 6217
Education Office	518	* 6026	Career Planner.	504	* 6078
Engine Shop	518	455-6839	Corrosion Control	504	* 6417
Ground Support PEB	4146	* 6054	Education NCO	504	* 6078
Hydraulics	518	* 6437	Flight Equipment.	504	455-6743
Hydraulics Shop	504	* 6911	Flight Line	504	* 6469
Legal	518	4556507	GSÉ	504	* 6469
		* 6976	Hydraulics	504	455-6743
MMS	518	* 6215	Intelligence/S-2	4015	* 6078
NAESU	518	455-6841	Legal	504	* 6078
MAESO	J10	455-6842	Logistics/S-4.	504	455-6368
NBC NCO	518	* 6444	wogistion 5 1,	J04	
Operations Officer	518	4556522	Maintenance Administration	EO.4	* 6294 4556743
	518		Maintenance Material	504 504	
Operations NCO	518	0444	Maintenance Control	504 504	* 6468
Quality Assurance	518	* 6905 455-6837		504	* 6487 * 6421
Supply Service Unit	518	* 6004	Material	504	0721
Technical Publications Library		0004	Metal Shop	504	* 6417
• • • • • • • • • • • • • • • • • • • •	518	0207	Operations/S=3	504	455-6145
Training NCO	518	455–6522 * 6246	Quality Assurance	504	* 6900
Duty NCO.	4020	* 6246	Ready Room	504	455-6569
			žg.c	504	* 6078
			Tool Room	504	455-6743
			Training	504	455-6145
HMH-362			Warehouse	TC 572 504	451-0257 * 6957
COMMANDING OFFICER	504	455-6805	Duty Officer.	504	455-6569
Executive Officer	504	455-6805	•		400 0007
Sergeant Major	504	455-6806	HMM162		
Administration Chief/S-1	504	455-6806	11MM - 102		
Administration officers 2 11111111111111111111111111111111111	30 .	* 6455	COMMANDING OFFICER	515	455-6646
S-2	504	* 6454	Executive Officer		
Aviation Safety	504	* 6027	Sergeant Major.	515	455-6634
Avionics Shop	504 504	* 6966	Adjutant	515	* 6463
Affords Shopin		* 6492		515	455-6634
Career Planner	EO A	0172	S-1 Officer	515	455-6646
Caleer Flatinel	504	455-6737	1st Sergeant	515	* 6053
Carrosian Control	EO 4	* 6261 * 6250		515	* 6402
	504 504	0230	Career Planner	515	455-6798
Flight Equipment		040			455-6892
Ground Safety	504	0021	Legal	515	* 6402
GSE Line Shack	504	* 6258	S-2	515	* 6463
Legal	504	4556728	S-3/Operations	515	455-6798
Logistics/S-4	504	455-6728	Operations Officer	515	455-6798
Maintenance Officer	504	455–6737	Ready Room	515	455-6892
Maintenance Chief	504	455–6737	Safety/NATOPS	515	* 6964
Maintenance Control	504	455–6737	Aviation Supply	515	* 6218
		* 6261	Avionics	515	* 6993
Maintenance Control Expeditor	504	* 6295	S–4	515	455-6689
NATOPS	504	<ul><li>6027</li></ul>	Maintenance Officer	515	455-6792
Operations /S-3	504	455-6645			455-6664
		* 6284	Maintenance Control	515	* 6996
Quality Assurance	504	455-6737	Material	515	455-6689
		* 6261	Flight Equipment	515	* 6993
		AFF ((FO	Quality Assurance	515	* 6050
Ready Room	504	4556658		717	
Ready Room	504 504	4556645	Training		
T		4556645	Training	515	* 6964
Training	504	4556645			* 6964

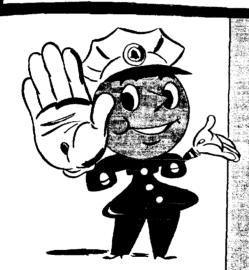
Organization	Bidg	Phone	Organization	Bldg.	Phone
HMM-261			Logistics/S-4	515	* 6211 455–6187
COMMANDING OFFICER	515	455-6697	Avionics	515	* 620
Executive Officer	515	455-6683	Maintenance Officer	515	455-6192
Sergeant Major	515	455-6683	Maintenance Control	515	* 620
Adjutant	515	455-6697	NATOPS/Safety	515	* 6211
Administration/S-1	515	455-6683	MATOT 3/ Safety	313	455-6187
Aircraft Maintenance Officer			Pondu Pon	E 15	
	515 515	455-6698	Ready Room	515	455-6617 * 6203
Aviation Safety	515	455-6616	Tool Room	515	0207
Avionics	515	* 6030	Duty NCO	40 20	* 6440
Flight Line	515	* 6933			
Intelligence/S-2	515	455-6616			
Legal Officer	515	4556683	HMT-204		
Logistics/S-4	515	* 6473			
Maintenance Control	515	455-6698	COMMANDING OFFICER	504	455-613
Maintenance Office	515	455-6698	Executive Officer	504	455-613
Material	515	455-6693	Sergeant Major	504	* 603
NATOPS	515	455-6616	Adjutant	504	455-613
Operations/S-3	515	455-6616	Administration Officer	504	455-613
		455-6697	Administration Chief/S-1,	504	455-613
Ready Room	515	4556879	Operations/S-3	504	455-667
Training	515		Орегалона/ 33	304	* 6990
<del>-</del>		0,05	6.4	F0.4	
Warehouse	TC 572	451-0257	S-4	504	070.
Duty NCO.	213	* 6003	5-5	504	* 6965
Duty NCO	4010	* 6951	Aviation Safety	504	4556883
Duty Officer	515	455-6879	Avionics	504	* 6965
			Logistics/Supply	504	* 6969
			Maintenance Officer	504	455-6669
HMM-263			Maintenance Chief/Admin	504	* 6031
			Maintenance Control	504	* 6908
COMMANDING OFFICER	515	455-6154	Maint. Supply	504	6290
Executive Officer	515	455-6154	NATOPS	504	455-6883
Adjutant	515	* 6923	Ready Room	504	* 6990
Sergeant Major	515	* 6910	Training	504	649]
Administration/S-1	515	* 6924	Duty NCO	4020	* 6440
Aviation Safety		0724	Duty Officer	504	0110
	515	0,02	Dury Omicer	304	455-6672
Check Crew	515	* 6936			
Intelligence/S-2	515	* 6954			
Logistics/S-4	515	* 6949	MABS-26		
Maintenance/Control	515	455-6302 * 6981	COMMANDING OFFICER	3502	455-635
Material Control	515	455-6155	Executive Officer	3502	455-6352
NATOPS	515	* 6962	Sergeant Major	3502	455-6352
Operations/S-3	515	455-6158	Adjutant	3502	455-6352
Ready Room	515	455-6159	Administration Chief	3502	455-635
Training	515	* 6929	Education NCO	3502	* 609
Duty NCO	4015	* 6992	- · · · · · · · · · · · · · · · · · · ·		
buty woo	4017	. 0772	Legal	3502	0742
			Material	3502	* 6267
			NBC NCO	3502	4556882
HMM – 365			Operations	3502	* 6938
			SRB Clerk	3502	455-635
COMMANDING OFFICER	515	455-6336	Supply	3502	* 6267
		* 6222	TAFDS	Vic 520	* 6445
Executive Officer	515	455-6336	Training	3502	* 6938
		* 6222	Warehouse	3535	* 6907
Sergeant Major	515	455-6336	Duty NCO	4020	* 6413
•		* 6222	Duty Officer	3502	455-6531
Administrative Chief/S-1	515	455-6336		0001	400-0001
		* 6222			
S-2/CMCC	515	* 6211	NAMTD-1027		
	<del>-</del>	455-6187	OFFICER IN CHARGE	222	455-6701
Operations/S-3/Training	515	* 6211	Administrative Chief	222	455-6610
, manual and commitment to the commitment of the		455-6187	Administrative Official Control of the Control of t	446	
		* 6274			
On	515				
	212	Abb billi			
Operations Officer	213	455–6187 * 6211			

Organization	Bldg	Phone	Organization	Bidg	Phone
MAG-29 HEADQUARTERS			Avionics Utticer	4106	455-6303
			Avionics NCOIC	4106	455-6761
COMMANDING OFFICER	4122	455-6320	Career Planner	4106	455-6648
Executive Officer	4122	455–63 <b>45</b>			* 6275
Sergeant Major	4122	455-6753	CCS	4106	* 6408
Adjutant	4122	<b>455</b> 6320	CCS Pool	4106	* 6486
S-1 Officer	4122	* 6291	Flight Equipment OIC/NCOIC	4106	* 6484
Administrative Officer	4122	455-6345	General Support Equipment,	4106	* 6098
Chief Clerk	4122	455-6614	IMRL	4106	455-6761
File Clerk	4122	455-6320	Legal Officer	4106	455-6856
S-2/Intelligence Officer	4122	4556767	Machine Shop	4106	455-6641
Intelligence Chief	4122	* <b>64</b> 50	Maintenance Administration	4106	455-6547
S-3/Operations Officer	4122	455-6898	Maintenance Chief	4106	455-6125
Asst Operations Officer	4122	455-6797	Material Officer/NCOIC	4106	455~6192
Operations Chief	4122	455-6367	Metal Shop	4106	455-6641
CMS/RPS	4122	455-6345	Ordnance OIC	4106	455-6857
Frag Officer	4122	455-6797			* 6292
Guard	4010	455-6523	Ordnance Loading Area	4106	* 6955
NBC Officer	4120	455-6848	Personnell/S-1	4106	455-6649
Training Officer	4122	455-6367			455-6304
S-4 /Logistics Officer	4122	455-6366	Power Plant Officer	4106	455-6791
Assistant S-4 Officer.	4122	* 6456	Power Plant NCOIC	4106	* 6272
Embarkation	4122	455-6770	Power Plant (T-76)	4106	* 6272
Logistics Chief	4122	455-6770	(T-400)	4106	* 6271
MIMMS	4120	* 6017	Production Control	4106	UL/I
MMO	4122	* 6017	rioddeddir control	4100	455-6619
			Quality Assurance Officer	410/	02,0
Armory	4120	0000	Quanty Assurance Officer	4106	455-6874
Chaplain	4120	455-6866	Took Call MCOLC		* 6423
Communications Center	4120	455-6545	Test Cell NCOIC	4106	* 6941
Mag-29 Inspector	4120	455-6797	Test Equipment.	4106	* 6276
Mag-29 Reproduction	4122	455-6345	Tool Room	4106	455-6641
Safety/Natops	4120	4556752	Training	4106	455-6648
		* 6047	D. J. 1100		* 6275
EOD Team	4108	455-6535	Duty NCO.	4106	* 6452
		* 6059	Staff Duty NCO	4106	455-6649
Group Analysis	4120	455–6794			
Group Supply Officer	4110	455-6350			
Supply Chief	4110	4556359	MABS-29		
SRS Chief	4110	455-6847			
Material Warehouse	TC 569	451-0482	COMMANDING OFFICER	TC 1110	451-0411
	TC 760	451-0437	Executive Officer	TC 1110	451-0411
	TC 940	451-0731	Sergeant Major	TC 1110	451-0473
Stock Control	4110	455-6557	Administrative Officer	TC 1110	451-0460
GASSC Officer	4110	455-6847	Administrative Chief		451-0359
Squadron Support Officer	4110	455-6608	Communications		451-0467
		* 6280			0151
		* 6286	Radio Chief	TC 1029	451-0332
Receiving Expeditor Unit.	4110	* 6288	Food Service		451-0186
MATCU Cage	4110	* 6252	Logistics/Embarkation		451-0464
Marine Corps Property Officer	4110	455-6633			0326
Fiscal	4110		Operations	TC1029	451-0315
1 1300111111111111111111111111111111111	4110	455–6380 * 6285	Operation 5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	101027	0326
Fiscal Accounting	4110	455-6380	Staff DNCO	TC 1110	451-0411
MAG-29 Duty Officer			Start Brico		
MAG-27 Duty Officer	4122	455-6345		4025	* 6950
H&M\$-29			HMA-269		
COMMANDING OFFICER	4106	455-6304	COMMANDING OFFICER	4108	455-6606
Executive Officer	4106	455-6649	Executive Officer	4108	455-6606
Sergeant Major	4106	455-6717	Sergeant Major	4108	455-6550
Adjutant	4106	455-6649	Adjutant	4108	455-6550
Administration Officer	4106	* 6279	Administrative Officer	4108	* 6269
Administration Chief/S1	4106	455-6856	Administration/S-1	4108	* 6269
Aircraft Maintenance Officer	4106	455-6547	Aviation Maintenance Officer	4108	455-6534
	7200		Aviation Safety/NATOPS-J		
,		455_6109	Aviation safety/NATOFS-3,	4108	ייוגום יי
Air Frames	4106	455-6109 455-6641	Aviation Safety/NATOPS-T	4108 4108	* 6005 * 6005

Organization	Bidg	Phone	Organization	Bldg	Phone
HMA-269 (Continued)	The second second second second second second second second second second second second second second second s	The second section of the section of the sect	Flight Line	4100	455-6751
Avionics	4108	* 6283	Intelligence/S-2	4100	* 6010
Career Planner	4108	455-6559	Logistics/S-4	4100	455-6870
Flight Equipment.	4108	* 6268	Maintenance Administration	4100	455-6751
Flight Line	4108	* 6232			* 6069
Ground Support Equipmint	4108	* 6268	Maintenance Control	4100	455-6751
Legal	4108	455-6559			<b>*</b> 6266
Logistics/S-4	4108	4556788	Material	4100	455-6870
Maintenance Administration	4108	455-6534	NATOPS	4100	* 6089
		* 6880	Operations Officer	4100	* 6019
Maintenance Chief	4108	455-6534	Operations/S-3	4100	455-6758
Maintenance Control	4108	* 6259			* 6084
Material	4108	455-6534	Ordnance	4100	* 6477
Metal Shop	4108	* 6283	Ready Room	4100	455-6655
Operations Officer	4108	* 6461	Training	4100	* 6478
Operations/S-3	4108	455-6541	•		* 6084
Ordnance	4108		Duty NCO	4025	* 6950
Quality Assurance	4108	* 6902 455-6546	Duty Officer	4100	455-6655
Ready Poom				-1100	
Ready Room	4108	455-6546	END MAG-29		455-6758
Teel Deem	1700	6034	END WATCH		transparent
Tool Room	4108	* 6236	MATCS-28		
Training Office	4108	* 6461	mA I C3-20		
Duty NCO	4108	455-6959	COMMUNICACTICED		
Outy Officer	4108	455-6563	COMMANDING OFFICER	G-1	451-0202
			Executive Officer	G-1	451-0202
			1st Sergeant	G-1	4510380
HML-167			Admin Officer	G-1	451-0714
			Operations Officer	G-1	451-0294
COMMANDING OFFICER	4108	455-6555	Embark ation	G-1	451-0771
Executive Officer	4108	455-6555	Maintenance Office r	G-1	451-0413
	1200	* 6016	Maintenance Chief	G-1	451-0234
Operations Officer	4108	455-6571	Services Officer	G-1	451-0771
Aircraft Maintenance Officer.	-		Fiscal Officer	G-1	451-0771
Anciait maintenance Officer	4108	455-6654	Supply Officer	G-1	451-0771
Logistics/Safaty/Embady/NATORS	4100	* 6474	Supply Chief	G-1	
Logistics/Safety/Embark/NATOPS	4108	455-6591	Career Planner		451-0771
03.000		4556793	Auvillant Continu	G1	451-0345
S-1 Officer/Adjutant	4108	455-6555	Auxillary Section	G-1	451-0767
Training Officer	4108	* 60.37	Duty NCO	AS214	* 6934
Legal Officer	4108	* 6984	Duty Officer/NCO	G-1	451-0202
Sergeant Major	4108	* 6024			
Maintenance Chief	4108	455-6654			
		* 6474	MATCS-28 RADAR SITE		
Schedule Officer	4108	<b>*</b> 6935			
Career Planner	4108	* 6984	Officer in Charge	862	455-6156
S-2 Officer	4108	* 6204	NCOIC	862	455-6157
S-1	4108	455-6572	GCA Watch Chief	862	455-6653
Flight Line	4108	* 6225	GCA Watch Site	862	455-6653
Quality Assurance.	4108		Maintenance Officer	862	455-6157
Maint. Control/Admin.		455-6654	Radio	518	* 6441
wanta Control/Admint	4108	455-6560		310	. 0441
Avianies	4100	* 6471	MWSG-27 DETACHMENT "A"		
Avionics	4108	* 6937	OFFICER IN CHARGE	217	1EF 1500
Metal Shop/Corrosion Control	4108	* 6418	Executive Officer	217	455-6590
Weapons & Tactics Instructors	4108	455-6786		217	455-6590
		* 6998	Sergeant Major	217	455–6590
Ready Room	4108	455-6873	Administrative Officer	217	455–6595
Duty NCO	4025	* 6251	Administrative Chief	217	* 6987
YMO-1			Career Planner	217	<b>*</b> 6994
			Education NCO	217	* 6989
COMMANDING OFFICER	4100	455-6382	Engineer Operations	586	455-6716
Executive Officer	4100	455-6381	Engineer Divisions Ops	3515	455-6722
Sergeant Major	4100	455-6759	EOD	4108	455-6536
Adjutant	4100	* 6095	Heavy Equipment Dispatcher	3504	* 6977
Administration Officer	4100	4556846	Heavy Equipment NCOIC	3504	455-6536
		* 6470	Maintenance Officer	114	
Administration Chief/S_I			manned dinodra, and a service		0017
Administration Chief/S-I	4100	0470	Motor Pool Refueler	117	* (7/17
Administration Chief/S-I	4100	* 6296	Motor Pool Refueler	117	* 6241
Administration Chief/S-I. Career Planner. Education Expeditor		0470	Motor Pool Refueler	117 112 112	* 6241 455-6504 * 6201

Organization	Bldg	Phone	Organization	Bldg.	Pho
MT Maintenance Control & Supply	112	455-6348		· · · · · · · · · · · · · · · · · · ·	
Operations	217	455-6603 455-6665			
Operations Chief	TC 864	451-0456			
Refueler Dispatcher	117	455-6833			
Supply	217	* 6208 455–6530			
Supply/Service Officer	217	455–6575 455–6589			
Training	217	* 6989			
Legal	217	* 6985			
Utilities/Carpenter Shop	3515	* 6465			
Warehouse	TC 761	451-0769			
Duty NCO	214	* 6934			
Duty Officer	217	455-6590			

When you start to make a call...



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BE SURE OF YOUR NUMBER.

# PERSONNEL SUPPORT ACTIVITY (NAVY)

Organization	Bldg.	Phone	Organization	Bldg	Phone
Officer—in—Charge	H-1	4528			
Asst Officer-in-Charge	H-1	4302			
Enlisted Records	H-1	4348			
Officer Records	H-1	4334			
FMSS Branch Office	M-105	6202			

## NAVAL REGIONAL DENTAL CENTER

Organization	Bldg.	Phone	Organization	Bidg.	Phon
COMMANDING OFFICER	15	2208			•
Director of Clinical Services	15	2208 1658			
Director of Administrative Services	15	2208			
Master CPO of the Command	15	2270			
Appointments/Cancellations/Information					
Camp Geiger Annex	G 770	0740			
Camp Johnson Annex	M 128	6288			
Courthouse Bay Annex	BB 10	7147			
Hadnot Point Annex/Duty	15	1658 3776			
MCAS(H) New River Branch Clinic	302	455-6515 455-6516			
		455-6893			
Financial and Material Mgt. Dept.					
Fiscal Officer	65	5357			
Supply Services	65	5314			
Operating Management Department	65	3555			
Preventive Dentistry Unit	65	3264			



Do not try to repair or move your telephone yourself, call EXT: 1114

Organization	Bldg.	Phone	Organization	Bldg.	Phone	
COMMANDING OFFICER		4310	Ambulance Dispatcher	15	3211	
Secretary		4310	Health Record Office	15	3435	
Director Clinical Services		4320	Information Desk/MAA	15	3141	
Secretary		4320	Industrial Nurse	15	2181	
Director Administrative Services		4350	Laboratory	15	1555	
Socretary		4479	Pharmacy	15	1097	
Master Chief Petty Officer of the Command		4496	Sick Call	15	1053	
• • • • • • • • • • • • • • • • • • • •		.,,,,	x-Ray	15	1540	
CHIEFS OF ADMINISTRATIVE SERVICES						
Data Processing		4436	Camp Geiger Branch Clinic	G-770	0105	
Disbursing Officer		4363	Camp Geiger Clinic Supervisor	G-770	0322	
Fiscal & Supply Officer		4339	Ambulance	G-770	0136	
Food Management		4314	Dependents Clinic.	G-770	0595	
Operating Management		4318	Military Sick Call	G 770	0371	
Patient Affairs		4327				
Personnel		4334	Camp Johnson Branch Clinic	M-128	6175	
Public Works		4322	Check-in/Appointments	M-128	6154	
			Laboratory	M-128	6238	
CHIEFS OF PROFESSIONAL SERVICES			Medical Officer	M-128	6104	
ALCOHOLISM REHABILITATION		4328				
ANESTHESIOLOGY		4583	Correctional Facility Clinic	1041	1834	
DERMATOLOGY		4471				
DENTAL & ORAL SURGERY	1 4	4456				
EYE, EAR, NOSE & THROAT		4543	Courtnouse Bay Branch Clinic	BB-10	7338	
LABORATORY		4459			7206	
MEDICAL		4316			7461	
NURSING		4321			7365	
OBSTETRICS AND GYNECOLOGY		4501			1000	
OCCUPATIONAL AND PREVENTIVE MEDICINE		2707	Rifle Range Branch Clinic	RR-11	7316	
ORTHOPEDICS		4373		12	7,710	
OUTPATIENTS (DEPENDENTS)		4313	Onslow Beach Branch Clinic	DA 114	7777	
PHARMACY		4464	Grafow Deach Branch Chilic	BA 114	7273	
PSYCHIATRY		4444	MCAS(H), NEW RIVER, Branch Clinic			
RADIOŁOGY		4469	Officer in Charge	45 20 2	455 (510	
SURGERY		4323	Ambulance	AS-302	455- 6513	
UROLOGY		4401	Health Records	AS-302 AS-302	455-6666	
OKOLOGI		4401	Treatar Necolus	A3-302	455–6511 455–6500	
ADMINISTRATIVE WATCH OFFICER		4350	Information	AS-302	455-6500	
			Physical Exams	AS-302	455-6514	
ADMISSION UNIT		4530	Physical Examination Center	36	702/	
ALCOHOLISM REHABILITATION UNIT		4328	The state of the s	<i>J</i> 0	3236 3954	
APPOINTMENT DESK		4505	Audiology	36	2320	
		4611	· datology · · · · · · · · · · · · · · · · · · ·	<i>J</i> 0	2320	
			Podiatry Clinic	15	2167	
AMBULATORY CARE SERVICE						
Administrative Assistant		4407	Psychology Clinic	15	3435	
Secretary		4407	CARDIOLOGY OFFICE			
Central Appointments.		<b>4407</b> 4505	CARDIOLOGI OFFICE		4688	
Contra Appointments			CENTRAL FILES			
Outpatient Decayde		4611	CENTRAL FILES		4534	
Outpatient Records		4557	CENTRAL SUPPLY			
BAG ROOM		4593	CENTRAL SUFFLI		4587	
			CHAPLAIN			
BARBER SHOP		4532	Catholic		4365	
DI COD BANK		4.00	Protestant		4391	
BLOOD BANK		4422	CHILDREN'S WAITING ROOM		1100	
BRANCH CLINICS			CONFUNER O MAITING ROOM		4682	
Chief of Branch Clinics	15	5618	CHIEF MASTER AT ARMS		1574	
Deputy Chief of Branch Clinics	15	5540	with marking at Attasticities and the second		4574	
Administrative Assistant	15	5540	CIVILIAN PERSONNEL		1 10 5	
Administrative Office.	15	5182	STREET PROPERTY IN THE STREET,		4495	
Nursing Coordinator	15	5182			4376	
Supply.	15	3270				
	1.7	2210				

Organization	Bldg	Phone	Organization	Bldg.	Phone
CLINCS	No.	Of programmer Characteristics	DISBURSING		
Dental ,		4456 4415	Deputy Disbursing Officer		4478 4363
Danadanta (Outantiant)			MCB Navy Accounts		4363
Dependents (Outpatient) Central Appointment Desk		4505 4611	2nd Mar Div Navy Accounts		4478 4478 4363
Record Section		4557	2nd FSSG, MCAS(H) Navy Accounts		3155 3166
Dermatology		. 4471			
Eye, Ear, Nose & Throat		4470	DUTY PARTY DESK		4593
Appointments  Ear, Nose, Throat		4472 4458	EDUCATION OFFICE		<b>4521</b> 4634
Eye		4543	Military Training Branch		4521
<b>S</b>		4375	Southern Illinois University	H 1	5575
Duty Room		4440			
Internal Medicine		4316	EMERGENCY ROOM		4335 4324
mental medicine		4317			
Neuropsychiatry		4444	ENLISTED CLUB		4387
Orthopedic		4373	FIRST CITIZENS BANK		5969
Ormopedic		43/3	FISCAL AND SUPPLY SERVICE		
Ob-Gyn		4501	Chief Fiscal & Supply Service		4339
		4503	Supply Officer.		4308
		4502	Civilian Payroll Section		4535
			Equipment Section		4691
Pediatrics		4380			4339
		4306	Fiscal Accounting Section		4337
		4411	Imprest Fund Cashier's Office		4493
Primary Care Clinic		4453	Purchasing Section		4308
Primary Care Clinic		4653			4367 4374
Surgical		4405	Issue Section		4574 4561
Sorgicul		4596	Stock Control		4561
		1370	Stock Conduit		4490
Tumor Board		4323	Shipping & Receiving		4561
			Supervisory Budget Analyst		4664
Urology		4401	FOOD WANT CENEVE CEDVICE		
COASTAL CAROLINA COMMUNITY COLLEGE.		4378	FOOD MANAGEMENT SERVICE		/21.
COASTAL CAROLINA COMMONTH COLLEGE.		4370	Chief of Food Management		4314 4466
COLLECTION AGENT		4537	Dining Room — Officers		4637
COMMAND SUPPORT LIASION			FORMS CONTROL		4574
Officer		4333	TORRO CONTROL		4389
Admin		4326			4207
		4312	GARAGE		
Career Counselor/Admin Asst		4331	Dispatcher		4562
COMPLAINT LINE		4407	Repairs		4575
CORONARY CARE UNIT		4341	HEALTH CARE ACTION LINE		4357
		4341	HEART STATION		4565
CYSTOLOGY		4538	HOSPITAL POINT		4523
DIET CHANGE LINE		4540			
DINING ROOM - OFFICERS		4637	INFECTIOUS DISEASE CONTROL		<b>432</b> 5 4429
DISABILITY EVALUATION SYSTEM		4448	INDUSTRIAL HEALTH SERVICE		_
		4593	Industrial Hygiene Officer		4325
			Safety Manager		4603

Organization	Bldg Phone	Organization	Bldg	Phone
INFORMATION DESK MAIN HOSPITAL	4300	OPERATING ROOM		4585
	4475	Doctors Lounge		4586
	4578	Duty Corpsman		4585
		Anesthesia Dept		4583
INHALATION THERAPY	4688	Recovery Room		4491
LABORATORY		OPERATING MANAGEMENT SERVICE		
Chief Laboratory Services	4459	Chief of Operating Management Service		4318
Admin Chief	4459	Assistant Chief Operating Management Service.		4574
Bacteriology	4566	Administrative Assistant		4318
Blood Bank	4422	Chief Master at Arms		4574
Chemistry	4566	Assistant Chief Master at Arms		4574
Cystology	4459	Patient Master at Arms		4390
	4566	Housekeeping		4389
Hematology	4567	Forms Control		4389
Histology	4567	Traffic and Parking Section		4390
Morgue	4662	Laundry		4628
Pathology	4305	Mail Room		4361
Serology	4422	Information Desk		4300
Urinalysis	4567	Security and Legal Assistance		4318
	4/20			
LAUNDRY	4628	ORTHOPEDIC SERVICE		
LIBRARY		Chief Orthopedic Service		4373
LIBRARY	4569	Secretary		4474
General	· -	DATIENT CERVICES		
Medical	4570	PATIENT SERVICES Chief of Patient Services		40.00
MAIL ROOM	4361	Command Master Chief		4327
MAIL ROOM	4301			4496
MARINE CORPS EXCHANGE	4590	Admission Unit		4530
MARINE CORPS EXCHANGE	4570	Bag RoomCHAMPUS Counselor/Depend Serv Admin		4593 4313
MARINE CORPS LIAISON NCO	4592	Decedent Affairs Desk		
MARINE CORT & EIRISON NOS	40/1	Disability Evaluation		4327 4448
MEDICAL REPAIR SHOP	4304	Disability Evaluation		4593
Marian Ma	4004	Buty Party Dock		4593
MEDICAL SERVICE		Duty Party Desk		4593
Chief of Medicine	4316	Health Records.		4593
Secretary	4317	Investigations — Claims		4593
Medical Social Worker	4604	Marine Corps Liaison NCO		4592
medical Social Holicollering	4606	Medical Air Evacuation Section		4417
	1000	Medical Disposition Desk		4448
MORGUE	4662	Statistical Coding		4593
(		Transcribing Supervisor.		4455
MILITARY CONSTRUCTION LIASION OFFICER.	4418	Transcribing Supervisor.		7477
	4656	PERSONNEL SYC (See PERS SPT ACTIVITY (NA	AYY)	
NURSING SERVICE		PHARMACY SERVICE		
Chief of Nursing Service	4321	Chief of Pharmacy Service		4464
Assistant Chief of Nursing	4641	Ward Issue Room		4346
Nursing Detail	4632	V Additive Room		4340
Quality Assurance Coordinator	4621	Pharmacy		4464
quarity Assurance Coordinator	4021	maimacy		4404
OB-GYN SERVICE		PHOTO LAB		4336
Labor & Delivery	447.3			
	4548	PHYSICAL THERAPY		4589
Labor Suite, CSR	4545	Appointment Desk		4461
Newborn Nursery	4549	Physiatrist		4381
Nursery, ICU	4623			
Ward 2-A (Post Partum)	4438	POST OFFICE (U.S.)		4591
Ward 7-A OB-GYN Clinic	4501			
	4502	PREVENTIVE MEDICINE		
	4503	Chief of Service		2707
		Admin Section	65	5707
OFFICER OF THE DAY	4300	Leading CPO	65	1930
		Sexual Transmitted Disease Clinic (STD)	65	5119
		Industrial Hygiene		2767

Organization	Bldg.	Phone
PSYCHIATRY SERVICE		
Chief Psychiatry Service	6	4444
		4342
PUBLIC WORKS SERVICE		
Public Works Officer		4322 4624
Garage		453
Maintenance Supervisor		4522
Maintenance Control		4666
Safety		4322
Sanitation		4322
Work Reception Desk		4666
QUARTERS		
Unaccompanied Personnel Housing		
Officer		4412
Enlisted		
Male		4484
		4618
Female		4648
Hospital Corps Quarters #2		4446
Lounge (First Floor)		4311
Master at Arms		4484

Organization	Bldg	Phone
RED CROSS		4332 4492
HOURS-MONFRI. 8-4:30 After Duty Hours		347-5191
SAFETY MANAGER		4603
SECURITY OFFICER		4574
SPECIAL SERVICES		4497
TRAFFIC & PARKING		4390
TRANSPORTATION		4562
TUMOR BOARD SECRETARY		4323
BASE VETERINARIAN  Veterinary Food Inspection Service	1300	5915 1846
Veterinary Animal Clinic For Appointments (Monday Only)	TT 2451	1009
X-RAY Chief Radiology Service		<b>4469</b> 4597 4538

# NUMBERS FREQUENTLY CALLED

IN THE THOM ADDRECT FELL HONL NUMBER

			1500
		1,000	
	1100		

BO P11102.1J

# STANDING OPERATING PROCEDURE FOR TRAINING FACILITIES AND SERVICES



MARINE CORPS BASE, CAMP LEJEUNE, N.C.



# UNITED STATES MARINE CORPS Marine Corps Base Camp Lejeune, North Carolina 28542

BO P11102.1J Ch 2 TFAC/GGG/ves 0 1 JUN 1981

#### BASE ORDER P11102.1J Ch 2

From: Commanding General To: Distribution List

Subj: Standing Operating Procedure for Training Facilities and Services

Encl: (1) New page inserts to BO P11102.1J

1. Purpose. To transmit new page inserts to the subject Manual.

2. Action. Between pages B-60 and B-61, insert new pages B-60a, B-60b and B-60c contained in enclosure (1) hereto.

3. Summary of Change. This Change incorporates regulations for Onslow Beach North Tower Machine Gun Range.

4. Filing Instructions. This change will be filed immediately following page 5 of the basic Manual.

5. Certification. Reviewed and approved this date.

J. R. FRIDELL Chief of Staff

DISTRIBUTION: A - 1

A-1
CMC (MTMT)
CG MCDEC (4)
COMPHIBLANT (10)
CG FMFLANT (10)
CG FORT BRAGG, NC (5)
CG MCB CAMPEN (5) CG 2d MAW (50) CG MCAS CHRPT (10)
CG LFTC Little Creek, NorVa (10)
COMFIVE (3)
COMSIX (3)
MCAS (H) New River (10)
MCAS Beaufort (3)
Sowment Lohnson AFR (3)

Seymour Johnson AFB (3)
USAJFKCENNA, Ft Bragg, NC (5)
CO RESLNU MCB CLNC (10)

Area Cdr, Camp Geiger Area (10)
DISTENGR USA Corps of Engrs, Wilmington, NC
OIC USCG STA, Swansboro, NC
OIC USCG STA, Wilmington, NC
OIC, USCG STA, Morehead City, NC
COMNAVAIRLANT (Code 325)
TRNC FAC 0 (250)

TRNG FAC 0 (150)

- 1. RANGE. Onslow Beach North Tower Machine Gun Range.
- 2. LOCATION. GS 9828

#### DESCRIPTION

- a. Assault Amphibian Vehicle Range.
- b. Floating target platforms seaward within the N-1 Impact Area.

#### 4. AUTHORIZED FIRING

- a. Weapons M-85 caliber machine gun and M-60 series 7.62 MM machine gun mounted on the LVTP-7 Assault Amphibian Vehicle.
  - b. Ammunition Service.

#### 5. RANGE LIMITS

a. Right Flank Coordinate 935287

Azimuth 1050

b. Left Flank Coordinate 939290

Azimuth 800

#### COMMUNICATIONS

- a. Dial telephone available on Onslow Beach, North Tower (7441)
- b. Internal radio communications will be established and maintained between the officer in charge of firing, safety boat and the firing line prior to and during firing.
- c. The officer in charge of firing will maintain wire communications with Base Range Control (BLACKBURN) during all firing.
  - d. See Section IV.
  - e. Dual communications required.
- f. Radio frequency 49.75~MHz for tower, and guard safety boat. Radio frequency 38.60~MHz for Range Control (BLACKBURN).
  - g. Three radios required.

#### 7. KNOWN INTERFERENCE

- a. Waterborne traffic seaward approaches within the surface danger area (N-1 Impact Area).
- b. Transient aircraft and military aircraft engaged in close air support missions on Brown's Island.

#### SAFETY EQUIPMENT

- a. Scarlet Streamers
- b. Binoculars

#### 9. RANGE PERSONNEL

a. Officer in Charge of firing.

- b. Range Safety Officer. This officer will be in addition to the Officer in Charge of firing.
  - c. Position Safety Officer when required.
  - d. One range guard.
- e. Safety boat operator with radio operator will be provided by Training Facilities Branch.
- 10.  $\underline{\text{MEDICAL}}$ . Corpsman with first aid equipment and military vehicle with driver.

#### 11. SPECIAL INSTRUCTIONS

- a. The following safety requirements are to be accomplished by the Officer in Charge of firing.
- (1) Receive briefing on conditions of scheduled events being conducted on G-5, G-5A, G-7 and BT-3 (Brown's Island) ranges that may effect range utilization.
- (2) Coordinate, as advised by Range Control Duty Officer, with units utilizing N-1 Impact Area to ensure safe conduct of implacement of buoys and target platform.
- (3) Coordination and planning will be accomplished to avoid interruptions and loss of valuable firing time.
  - b. Impacements of buoys and target platforms.
- (1) The left and right boundaries are to be marked with red fabricated buoys extending from the beach seaward to at least 200 meters and securely anchored into place.
- (2) Target platforms (color optional) are to be anchored within the boundaries of the fan on an azimuth  $100^\circ$  right boundary to  $85^\circ$  left boundary.
- (3) Range Control Duty Officer will be advised on the completion of implacements.
- (4) Personnel and vehicles are to remain south of grid line 29 and forward of the dunes (beach area) at all times.
  - (5) Foot or vehicle traffic on the sand dunes is strictly prohibited.
- c. Prior to commencing fire, until termination, fly scarlet streamer during daylight hours:
  - (1) Onslow Beach, North Tower 933287
  - (2) Flag Pole located at Grid 926283
  - d. Maintain Range Guard on North Tower throughout the exercise.
- e. Range guard will be equipped with binoculars and radio. He will be instructed that his section of observation is  $10^{\circ}M$  to  $190^{\circ}M$  and give prompt notification to the Officer in Charge of firing before a vessel or aircraft penetrates the danger area.
- f. Range guard will be directed to raise and lower the flag prior to commencing and termination of firing.

- g. The using unit will ensure that an aerial search is made of Brown's Inlet, Brown's Island and areas within the danger area to ensure that the areas are cleared of personnel and crafts prior to firing. Training Facilities Branch will schedule an aerial sweep of the area for the using unit.
- h. Training Facilities Branch will provide a guard boat to be positioned in Brown's Inlet (GC 955305) to prevent any crafts from entering the danger areas.
- i. Other units are authorized to use G-7 range during the same scheduled period of firing. Guard boats will be positioned in the waterway at Bear Creek and Freeman Creek to control boat traffic.
- j. When air operations are being conducted on BT-3 Bombing Range, North Tower Machine Gun Range will not be authorized to fire. All personnel and tracked vehicles will be required to move out of the buffer zone to GC 925284 until the completion of air operations and cleared by Range Control to move back and resume firing.
- k. Firing will cease if communications are not maintained or range flags are lowered for any reasons.
  - 1. Firing of weapons at sea mammals or sea birds is strictly prohibited.
  - m. Ensure strict compliance with BO 11015.7 dated 14 June 1979.



# UNITED STATES MARINE CORPS Marine Corps Base Camp Lejeune, North Carolina 28542

BO P11102.1J Ch 4 TFAC/EMA/ves 22 Feb 1982

#### BASE ORDER P11102.1J Ch 4

From: Commanding General To: Distribution List

Subj: Standing Operating Procedure for Training Facilities and Services

1. Purpose. To add pages and direct pen changes to the basic order.

#### 2. Action

- a. Remove and destroy pages 2-13 and 2-14 and replace with new pages 2-13 and 2-14 Ch 4.
  - b. Add pages 2-15 Ch 4 and 2-16 Ch 4.
- c. On page 4-16, delete present subparagraph 421.7 b. (1) and substitute the following:
- "(1) ALZ's are used for administrative support only. Tactical exercises involving the use of helicopters for personnel or cargo movement will not be conducted in ALZ 4".
- d. On page D-2 under 5a., (Location) after 4, W.P.T. HILL Parade Field, add: "(RESTRICTED)".
- e. On page D-2, delete subparagraph 5 (2), and renumber remaining subparagraph (3) as (2).
- f. In Appendix A under Administrative Landing Zone (ALZ), delete the last sentence.
- 3. Summary of Change. Changes made throughout the basic Order are to clarify wording/instructions.
- 4. Change Notation. Significant changes contained in the revised pages are denoted by an arrow () symbol.
- 5. Filing Instructions. This change will be filed immediately following the signature page of the basic  ${\tt Order}$ .

BO P11102.1J Ch 4 22 Feb 1982

6. Certification. Reviewed and approved this date.

J. R. FRIDELL Chief of Staff

DISTRIBUTION: A-1
CG FORT BRAGG, NC (5)
CG MCB CAMPEN (5)
CG 2d MARDIV (300)
CG 2d FSSG (Rein) (100)
CG 2d MAW (50)
CG MCAS CHRPT (10)
CG LFTC Little Creek, NorVa (10)
COMFIVE (3)
COMSIX (3)
MCAS (H) New River (10)
MCAS Beaufort (3)
Seymour Johnson AFB (3)
MAG-26 (35)
MAG-29 (35)
USAJFKCENNA, Ft. Bragg, NC (5)
CO RSU MCB CLNC (100)
Area CMDR, Camp Geiger Area (100)
DISTENGR USA Corps of Engrs, Wilmington, N.C.
OIC USCG STA, Wilmington, NC
OIC USCG STA, Wilmington, NC
OIC USCG STA, Morehead City, NC
COMNAVAIRLANT (Code 325)
TRNG FAC 0 (500)
CMC (MTMT)
CG MCDEC (4)
COMPHIBLANT (10)
CG FMFLANT (10)

# 1. HAZARDOUS AREAS

- a. High Explosive Impact Areas
- (1) G-10, K-2 and N-1 impact areas may be entered only when accompanied by explosive ordnance disposal personnel and with the permission of the Base Range Control Officer. No training will be authorized within those areas except for EOD Personnel.
- (2) No training will be scheduled on the down range portions of ranges F-6, G-8, K-211, K-323, K-325, G-9, K-301, K-303, K-305 and K-405, with the exception of EOD Personnel. Down range movement is permitted only if accompanied by explosive ordnance disposal personnel.
- b. Live Minefield Site: See reference (c). (Grid coordinates 936310 to 939306 to 943309 to 943313)
- c. Chemical Dump. See reference (d). (Grid Square 7728)
- 2. EXCLUSION AREAS AND LIMITED AREAS. Building SH-8 and Magazines SHE-12 and SHE-13 are designated as Exclusion Areas and the fenced in areas surrounding them are designated as Limited Areas.
- 3. RESTRICTED CATEGORY TRAINING AREAS. Maneuver areas CA, CB, DA, that portion of DC south of the Main Service Road and west of gridline 87, and the FAD area in grid squares 8742 and 8741 are in a restricted category and are not available for training.
- 4. <u>ADMINISTRATIVE AREAS</u>. Training normally is not permitted in administrative areas, except in specific training facilities located within the area, such as D-9, D-29, D-30 small arms ranges and the area five training pool.
- 5. ONSLOW BEACH. The beach area is the primary amphibious training area at Camp Lejeune. When not in use for training, the central portion, designated Onslow Beach, is open for recreational purposes. For safety purposes, the use of Onslow Beach for training requires specific authorization at least two weeks in advance of training. Use of blank ammunition and explosives may be authorized in accordance with the procedures set forth in paragraph 206.8.
- 6. <u>FOOD PLOTS</u>. Food plots are located within maneuver areas and are prominently marked. Units will remain clear of all food plots.

#### 208. MISCELLANEOUS

#### 1. ADMINISTRATIVE LANDING ZONES

Office. Advance notification of the intended use of an ALZ for other than routine administrative operations should be made to the appropriate area commander.

#### b. SPECIAL INSTRUCTIONS FOR ALZ 4.

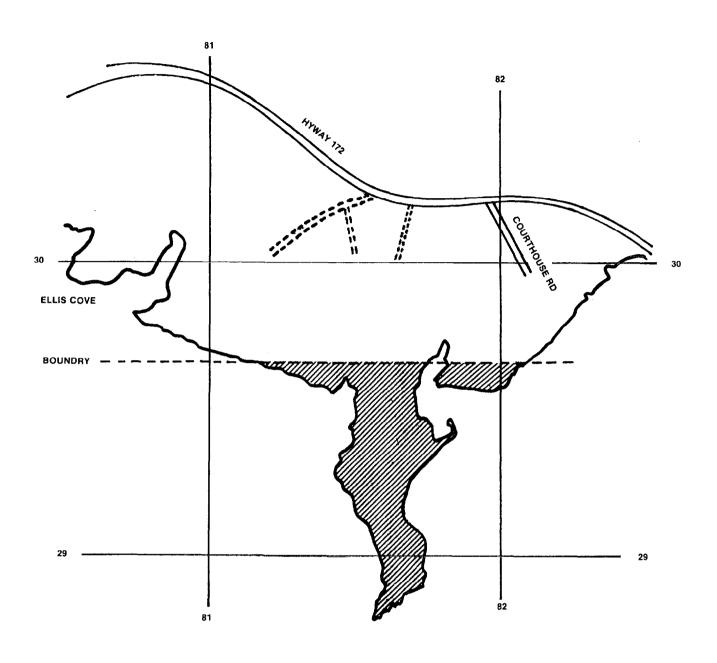
- (1) ALZ 4 is off limits to all aircraft during the hours of 0745 to 0815 daily.
  - (2) ALZ 4 is restricted to VIP and administrative purposes only.

#### 2. RECREATIONAL USE OF TRAINING FACILITIES

- a. Training pools, Area #2 and Montford Point, are available for recreational use of units and dependents, subject to training requirements. See Appendix D.
- b. Requests for recreational firing will be submitted as indicated via the Assistant Chief of Staff, Training:
  - (1) B-12 (Pistol and .22 Rifle Range) Base TFO
  - (2) D-6 (Cal. .22 Range) Base TFO
  - (3) D-9 (Skeet Range) Base Special Services Officer
  - (4) F-11 (Pistol Range) Base TFO
  - (5) Base Rifle Range CO, Rifle Range Detachment
- 3. REQUESTS FOR CIVILIAN AND MILITARY DEPENDENTS TO OBSERVE TRAINING ABOARD CAMP LEJEUNE. Requests for authorization to permit civilian personnel and military dependents to observe training aboard Camp Lejeune will be submitted, via chain of command, to CG, MCB (Attn: Assistant Chief of Staff, Training) stating:
  - a. Type of training (ordnance to be fired).
  - b. Date and time.
  - c. Training area.

#### 4. JARRETT'S POINT TRAINING AREA

- a. Jarrett's Point, located in the JC maneuver area (GS 8129 & 8128), is a training area used predominately by the 2d Assault Amphibian Battalion for driver training, MCES and MCAS (H) New River Units for external lift training.
- b. Portions of this training area have been designated as archaeological sites. Until these sites have been excavated by authorized archaeologists, training at Jarrett's Point will be restricted as follows:
- (1) No vehicular or ground troop training will be conducted south of a line from GC 810296 to 820296. This line is marked by signs indicating the restricted area (See map on page 2-16).
- (2) Helicopter operations, in conjunction with HST units conducting external rigging training, may be conducted in the designated area south of the restriction line. Ingress/egress to this area is restricted to foot and wheeled vehicular traffic on existing trails.
- (3) Road grading and any other engineer training which will disturb the soil, is prohibited except by written consent of the Base Maintenance Officer (AC/S Facilities).





APPROX. SCALE 1" = 250 METERS BOUNDRY LINE IS FROM GRID 810296 TO 820296



#### UNITED STATES MARINE CORPS

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

BO P11102.1J Ch 3 TFAC/EMA/ves 4 FEB 1982

#### BASE ORDER P11102.1J Ch 3

From: Commanding General To: Distribution List

Subj: Standing Operating Procedure for Training Facilities and Services

Encl: (1) New page inserts to BO P11102.1j

1. Purpose. To direct pen changes and transmit new page inserts to the basic Order.

#### 2. Action

- a. Remove and destroy pages 4-25, 4-26, and replace with new pages 4-25, 4-26 attached as enclosure (1) hereto.
- b. Remove and destroy pages B-60a, B-60b and B-60c, and replace with new pages B-60a, B-60b, B-60c and Tab (A) to B-60c.
- c. On page B-22 under 3.b. add "c. Two artillery and one machine gun simulators.
- d. On page B-24, under 8. RANGE PERSONNEL add, "One range operator is provided by Training Facilities Branch.
- e. On page B-32 under 4.b. add "c. The firing of machine guns at the pop up targets or berms is prohibited."
- f. On page B-35 under 3.b. delete the words "flashing yellow" and insert the words "a white light".
- g. On page B-35, under 9.b. insert "c. The range operator will be utilized only when the pop up targets are used."
  - h. Delete pages B-37 thru B-40.
- i. On page B-69 under 11.b. delete the words "implacement of demolitions" and insert, "demolitions and emplacement of same".
- On page B-77 under 3.a. delete, "Combat Field Firing", and insert, "Night and Combat Field Firing."
- k. On page B-77, under 8. SAFETY EQUIPMENT, after Streamers, add, "will be flown from range pole during daylight firing and red flashing lights during night firing".
  - 1. On page F.1., under la., delete the last sentence of sub-paragraph la.
- 3. Summary of Change. Changes made throughout the basic Order are to clarify wording/instructions.

#### BO P11102.1J Ch 3 4 FEB 1962

- 4. Change Notation. Significant changes contained in the revised pages are denoted by an arrow () symbol.
- 5. Filing Instructions. This Change will be filed immediately following the signature page of the basic Manual.
- 6. Certification. Reviewed and approved this date.

Mfwilll J. R. FRIDELL Chief of Staff

DISTRIBUTION: A-1 CMC (MTMT) CG MCDEC (4) COMPHIBLANT (10)
CG FMFLANT (10)
CG FORT BRAGG, NC (5)
CG MCB CAMPEN (5) CG 2d MARDIV (300) CG 2d FSSG (Rein) (100) CG 2d MAW (50) CG MCAS CHRPT (10) CG LFTC Little Creek, NorVa (10) COMFIVE (3) COMSIX (3) MCAS (H) New River (10) MCAS Beaufort (3) Seymour Johnson AFB (3) MAG-26 (35) MAG-29 (35) USAJFKCENNA, Ft. Bragg, NC (5) CO RESLNU MCB CLNC (100) Area CMDR, Camp Geiger Area (100) DISTENGR USA Corps of Engrs Wilmington NC OIC USCG STA, Swansboro, NC OIC USCG STA, Wilmington, NC OIC USCG STA, Morehead City, NC COMNAVAIRLANT (Code 325) TRNG FAC O (500)

417.2

- d. If one means of communications fails while the training is in progress, but communications through the alternate media remains effective, the training may continue.
- e. Should both wire and radio communications to Range Control fail, the exercise will be suspended immediately by the officer in charge of firing. All aircraft will be directed to clear the area until authorized to resume operations.
- f. MAG lines are positioned at or within walking distance of each TLZ for maximum assistance to training units in establishing communications with Base Range Control.
- g. See paragraph 412 concerning air operations and paragraph 6 of Appendix B regarding live firing in the BT-3 complex (Brown's Island, N-1 Impact Area).

## 417. MISCELLANEOUS

## 1. BLANK FIRING AND PYROTECHNICS

- a. All maneuver areas and many live fire ranges may be used for non-live firing exercises utilizing blank ammunition and non-injurious pyrotechnics unless otherwise prohibited as an exclusion or hazardous area. Blanks and pyrotechnics will not be buried.
- b. Blanks and pyrotechnics, with the exception of red signals, may be used without permission from this Headquarters in all maneuver areas except:
  - (1) Areas C, DA and DC
- (2) Sub-areas adjacent to public quarters or trailer parks.
  - (3) Near Base Schools.
- (4) Areas specifically designated as exclusion, limited or training areas in a restricted category. See paragraph 204.2.
  - (5) Heavily populated areas.
- c. Red grenades and pyrotechnics are used as an emergency or danger signalling device and will not be used for training unless specifically authorized by the Assistant Chief of Staff, Training.
- 2. LIVE FIRE IN NON-DESIGNATED AREAS. Live fire exercises normally must be conducted on designated ranges listed in

Appendix B. In certain instances, permission may be granted to conduct live fire exercises or demonstrations in nondesignated areas. See Section II for scheduling procedures.

## 3. USE OF NBC AGENTS

- a. The use of smoke, flame, CS and standard agent simulants is authorized for training purposes at the discretion of the unit commander and subject to the restrictions contained in these regulations. No other agents may be used.
- b. Standard simulants and munition available for training are: (See reference (q)).
  - (1) Simulant Chemical Agent PEG 200
  - (2) Training Set, Chemical Agent M72A1/M72A2
  - (3) Blister Agent Simulant, Molasses Resedium
  - (4) Training Ammunition.
  - (5) Atomic explosion simulator, DVC 39-1.
  - (6) Atomic Simulator locally fabricated set (FM 30-101).
  - (7) Artillery Simulator, M110.
  - c. Specific instructions are as follows:
- (1) Classroom instructors will notify the range NCOIC/Assistant NCOIC of the intent to use CS Grenades in the outdoor classroom prior to their use. The wind direction will be checked by the Range NCOIC/Assistant NCOIC before authorization is given for their use.
- (2) The same cover and safety limits used during training with high explosive ammunition are required for protection against fragments and ricochets of chemical ammunition.
- (3) Chemical agents will be employed only with the advice of a commissioned officer trained in the field behavior of such agents.
- (4) Troops will not be exposed to CS until they have been instructed in the use of the Field Protective Mask and have completed a minimum of three masking drills. Field protective masks will be checked for serviceability prior to instruction.
- (5) Individuals having a P/3 profile because of respiratory or cardiac conditions will not be exposed to CS until examined by a medical officer who will determine whether or not the individual should be excused.

1. RANGE. Onslow Beach North Tower Machine Gun Range.

LOCATION. GS 9328

#### 3. DESCRIPTION

- a. Assault Amphibian Vehicle Range.
- b. Floating target platforms seaward within the N-1 Impact Area.

#### 4. AUTHORIZED FIRING

- a. Weapons M-85 caliber machine gun and M-60 series 7.62~MM machine gun mounted on the LVTP-7 Assault Amphibian Vehicle.
  - b. Ammunition Service.

#### 5. RANGE LIMITS

a. Right Flank Coordinate 935287

Azimuth 1050

b. Left Flank Coordinate 939290

Azimuth 80<sup>6</sup>

#### 6. COMMUNICATIONS

- a. Dial telephone available on Onslow Beach, North Tower (7441).
- b. Internal radio communications will be established and maintained between the officer in charge of firing, safety boat and the firing line prior to and during firing.
- c. The officer in charge of firing will maintain wire communications with Base Range Control (BLACKBURN) during all firing.
  - d. See Section IV.
  - e. Dual communications required.
- f. Radio frequency 49.75 MHz for tower, and guard safety boat. Radio frequency 38.60 MHz for Range Control (BLACKBURN).
  - g. Three radios required.

#### 7. KNOWN INTERFERENCE

- a. Waterborne traffic seaward approaches within the surface danger area (N-1 Impact Area).
- b. Transient aircraft and military aircraft engaged in close air support missions on Brown's Island.

#### 8. SAFETY EQUIPMENT

- a. Scarlet Streamers
- b. Binoculars

#### 9. RANGE PERSONNEL

a. Officer in Charge of firing.

- b. Range Safety Officer. This officer will be in addition to the Officer in Charge of firing.
  - c. Position Safety Officer when required.
  - d. One range guard.
- e. Safety boat operator with radio operator will be provided by Training Facilities Branch.
- 10. MEDICAL. Corpsman with first aid equipment and military vehicle with driver.

#### 11. SPECIAL INSTRUCTIONS

- a. The following safety requirements are to be accomplished by the Officer in Charge of firing.
- (1) Receive briefing on conditions of scheduled events being conducted on G-5, G-5A, G-7 and BT-3 (Brown's Island) ranges that may affect range utilization. This range is not to be used when the Intracoastal Waterway has been closed for other ranges and one of the following ranges is available: G-5, G-5A, or G-7. (When other ranges requiring the closing of the Intracoastal Waterway are not being used, the use of this range is not so restricted).
- (2) Coordinate, as advised by Range Control Duty Officer, with units utilizing N-1 Impact Area to ensure safe conduct of implacement of buoys and target platform.
- (3) Coordination and planning will be accomplished to avoid interruptions and loss of valuable firing time.
  - b. Implacements of buoys and target platforms.
- (1) The left and right boundaries are to be marked with red fabricated buoys extending from the beach seaward to at least 200 meters and securely anchored into place.
- (2) Target platforms (color optional) are to be anchored within the boundaries of the fan on an azimuth  $100^{\circ}$  right boundary to  $85^{\circ}$  left boundary.
- (3) Range Control Duty Officer will be advised on the completion of implacements.
- (4) Personnel and vehicles using this range are restricted to an area between grid line 29 and a point where the access road that goes between the sand dunes to the base of Onslow North Tower bisects the beach.
  - (5) Foot or vehicle traffic on the sand dunes is strictly prohibited.
- (6) The firing line is a 75 meter stretch of beach immediately northeast of Onslow North Tower. The firing line is on the seaward side of the sand dunes running parallel to the high water mark (Tab (a) to B-60c). For safety reasons, no more than three vehicles will be on the firing line at any one time. This line is marked by red engineer stakes.
- (7) Access to the firing range is restricted to Ocean Drive and continuing north to the access road that goes between the sand dunes to the base of Onslow North Tower and ends at the water's edge (Tab (a) to B-60c). Another route, available only to the 2d Assault Amphibian Battalion, is to enter the water from the tactical beach area south of Risely Pier and swim to the range site.
- c. Prior to commencing fire, until termination, fly scarlet streamer during daylight hours:

- (1) Onslow Beach, North Tower 933287
- (2) Flag Pole located at Grid 926283
- d. Maintain Range Guard on North Tower throughout the exercise.
- e. Range guard will be equipped with binoculars and radio. He will be instructed that his section of observation is  $10^{\rm o}$ M to  $190^{\rm o}$ M and give prompt notification to the Officer in Charge of firing before a vessel or aircraft penetrates the danger area.
- f. Range guard will be directed to raise and lower the flag prior to commencing and termination of firing.
- g. The using unit will ensure that an aerial search is made of Brown's Inlet, Brown's Island and areas within the danger area to ensure that the areas are cleared of personnel and crafts prior to firing. Training Facilities Branch will schedule an aerial sweep of the area for the using unit.
- h. Training Facilities Branch will provide a guard boat to be positioned in Brown's Inlet (GC 955305) to prevent any crafts from entering the danger areas.
- i. Other units are authorized to use G-7 range during the same scheduled period of firing. Guard boats will be positioned in the waterway at Bear Creek and Freeman Creek to control boat traffic.
- j. When air operations are being conducted on BT-3 Bombing Range, North Tower Machine Gun Range will not be authorized to fire. All personnel and tracked vehicles will be required to move out of the buffer zone to GC 925284 until the completion of air operations and cleared by Range Control to move back and resume firing.
- ${\bf k}.$  Firing will cease if communications are not maintained or range flags are lowered for any reasons.
- 1. Firing of weapons at sea mammals, birds, or reptiles, or when these animals are visible down range is strictly prohibited.
  - m. Ensure strict compliance with BO 11015.7 dated 14 June 1979.

-Intracoastal Waterway ---Firing Line ---Onslow North Tower ---Hurst Onslow Beach Onslow Beach Road --Recon Bn --Ocean Drive----Risley Pier (Not to Scale) TAB (A) to B-60c Ch 3 (4 Feb 1982)

# 2

# UNITED STATES MARINE CORPS MARINE CORPS BASE

#### CAMP LEJEUNE, NORTH CAROLINA 28542

BO P11102.1J TFAC/HVG/ves 11 Jun 1980

## BASE ORDER P11102.1J

From: Commanding General To: Distribution List

Subj: Standing Operation Procedures for Training Facilities

and Services

Ref: (a) MCO P3570.1

(b) BO P1710.27

(c) BO 8092.1

(d) MCO P5100.20

(e) MCO P11000.7

(f) BO 8027.2

(g) MCO 6700.1

(h) MCO 6200.1

- (i) CAMP LEJEUNE SPECIAL MAP, APPROACHES TO NEW RIVER STOCK NUMBER V-742 SCELEJEUNE, 5th ed, Sept 25, 1976
- (j) Map of North Carolina: 1:50,000 Series V-742

(k) Division Air Note 2-79 (NOTAL)

(1) BO 11320.1

(m) MCO 8025.1

(n) BO P8023.3

(o) Federal Code of Regulations-Title 33 (NOTAL)

(p) FM 21-48 (NOTAL)

(q) NAVORDSYSCOM Ltr ORD-048E2/469:ANC 8020 dtd 7Jun74

(r) BO 11000.0

(s) Public Law 93-205, Endangered Species Act of 1973 (NOTAL)

1...

(t) MCO 11015.4

(u) BO 11015.3

(v) BO 11017.1

(w) BO 11015.6

(x) BO 11015.7

Encl: (1) LOCATOR SHEET

Reports Required: List, page iii.

- 1. Purpose. To promulgate regulations for the assignment, control, safe use and maintenance of training facilities, including live field firing ranges, maneuver areas and field training facilities under the control of the Commanding General, Marine Corps Base, Camp Lejeune, North Carolina, and to provide information and instructions regarding training services available to units training at Camp Lejeune.
- 2. Cancellation. BO P11102.1H.

## 3. Action

- a. This Order is effective on receipt.
- b. A copy of this Order and Section IV with Appendixes A through H, will be published separately in standard size and will serve as the Base Training Facilities Safety Regulations. All officers involved in the utilization of live firing ranges, maneuver areas, helicopter landing/drop zones and air operations will be thoroughly familiar with these safety regulations and each Officer in Charge of Firing or Forward Air Controller will possess a copy of the standard size regulations at all times when such training exercises are in progress.
- 4. Summary of Revisions. This revision contains a substantial number of changes and should be completely reviewed.
- 5. Recommendations. Recommendations for the improvement of training facilities and services, including the enchancement of safe usage of facilities, should be submitted through the appropriate chain of command.
- 6. Applicability. This Order is applicable to all personnel of all services based at or attached to Marine Corps Base, or to those units not under the operational control of the Commanding General, Marine Corps Base, but granted permission to use the air or water space of the training facilities within the geographical limits of this Base.

7. Certification. Reviewed and approved this date.

Chief of Staff

DISTRIBUTION: A-1 CMC (MTMT) CG MCDEC (4) COMPHIBLANT (10) CG FMFLANT (10) CG FORT BRAGG, NC (5) CG MCB CAMPEN (5) CG 2d MARDIV (300) CG 2d FSSG (Rein) (100) CG 2d MAW (50) CG MCAS CHRPT (10) CG LFTC Little Creek, NorVa (10) COMFIVE (3) COMSIX (3) MCAS (H) New River (10) MCAS Beaufort (3) Seymour Johnson AFB (3) MAG-26 (35) MAG-29 (35)USAJFKCENNA, Ft Bragg, NC (5) CO RESLNU MCB CLNC (100) Area CMDR, Camp Geiger Area (100) DISTENGR USA Corps of Engrs, Wilmington, NC OIC USCG STA, Swansboro, NC OIC USCG STA, Wilmington, NC OIC USCG STA, Morehead City, NC COMNAVAIRLANT (Code 325) TRNG FAC O (500)

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## LOCATOR SHEET

Standing Operating Procedure for Training Facilities and Services

LOCATION:

(Indicate the location(s) of the copy(ies) of this publication.)

## RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Received	Date Entered	Signature of Person Entering Change
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## REPORTS REQUIRED

Report		Submitted by	Submitted to	Ref	
·I.	Training Facilities Discrepancy Report	Training Unit	Base TFO	Para 201.4	
II.	Use of NBC Agents	Training Unit	Base TFO	Para 206.10	
III.	Serious Injury or Death	Training Unit	Range Control	Para 403.8	
IV.	Malfunction of Ordnance	Training Unit	See Reference (m)	Para 406.8	
٧.	Dud Report	Training Unit	Range Control	Para 411.1	
VI.	Assumption of Responsibility for Maneuver Areas	Training Unit	Range Control	Appendix H-3	

## TABLE OF CONTENTS

SECTION I	<u>PARA</u>	PAGE
GENERAL INFORMATION		
PURPOSE	101	1-1
DUTIES AND RESPONSIBILITIES	102	1-1
Assistant Chief of Staff, Training	102.1	1-1
Assistant Chief of Staff, Facilities	102.2	1-1
Base Special Services Officer	102.3	1-2
Base Maintenance Officer	102.4	1-2
Base Training Facilities Officer	102.5	1-2
Base Communications-Electronics Officer	102.6	1-3
Base Explosive Ordnance Disposal Officer	102.7	1-3
Commanding Officer, Rifle Range Detachment	102.8	1-3
DEFINITIONS	103	1-3
PECULIARITIES OF CAMP LEJEUNE	104	1-3
Physical Characteristics	104.1	1-3
Terrain-Airspace Relationships	104.2	1-4
Navigable Waterways	104.3	1-5
PLANNING AND PROGRAM REQUIREMENTS	105	1-6
SECTION II		
TRAINING FACILITIES		
GENERAL	201	2-1
Background Information	201.1	2-1

	PARA	PAGE
Scheduling Procedures	201.2	2-1
Police of Training Facilities	201.3	2-2
Training Facilities Discrepancy Reports	201.4	2-3
LIVE FIRE RANGES	202	2-4
Requesting Procedures	202.1	2-4
Priority Assignments	202.2	2-4
TACTICAL LANDING ZONES AND PARADROP ZONES	203	2-5
Requesting Procedures	203.1	2-5
Non-Scheduled Use of TLZ's by Helicopter Units	203.2	2-5
Paradrop Exercises	203.3	2-5
MANEUVER AREAS	204	2-6
Requesting Procedures	204.1	2-6
Miscellaneous	204.2	2-6
FIELD TRAINING FACILITIES	205	2-7
Requesting Procedures	205.1	2-7
Combat Town	205.2	2-7
SPECIAL REQUESTS	206	2-8
Camp Davis	206.1	2-8
National Forests	206.2	2-8
Civil Disturbance Training	206.3	2-9
Special Training Exercises	206.4	2-11
Closure of Intracoastal Waterway	206.5	2-11
Closure of Highways	206.6	2-11
Live Fire in Non-designated Areas	206.7	2-11

	PARA	PAGE
Onslow Beach Recreational Area	206.8	2-12
Use of Red Pyrotechnics	206.9	2-12
Use of NBC Agents	206.10	2-12
Suspension of Safety Regulations	206.11	2-12
Preservation of Trees and Other Major Vegetation	206.12	2-12
PROHIBITED AREAS	207	2-12
Hazardous Areas	207.1	2-13
Exclusion Areas and Limited Areas	207.2	2-13
Restricted Category Training Areas	207.3	2-13
Administrative Areas	207.4	2-13
Onslow Beach	207.5	2-13
Food Plots	207.6	2-13
MISCELLANEOUS	208	2-14
Administrative Landing Zones	208.1	2-14
Recreational Use of Training Facilities	208.2	2-14
Request for Civilian and Military Dependents to Observe Training Aboard Camp Lejeune	208.3	2-14
SECTION III		
TRAINING SERVICES		
GENERAL	301	3-1
Background Information	301.1	3-1
Training Services Available	301.2	3-1
MINOR CONSTRUCTION AND MAINTENANCE	302	3-1
Minor Construction	302.1	3-1
Maintenance	302.2	3-1

		PARA	PAGE	
	Requesting Procedures	302.3	3-2	
EXP	LOSIVE ORDNANCE DISPOSAL	303	3-3	
	Support Provided	303.1	3-3	
	Areas of Responsibility	303.2	3-3	
	Requesting Procedures	303.3	3-3	
WET	BULB GLOBE TEMPERATURE REPORTS	304	3-4	
	General	304.1	3-4	
	WBGT Stations	304.2	3-4	
	Requests for WBGT Index	304.3	3-4	
	Miscellaneous	304.4	3-4	
	SECTION IV			
	TRAINING FACILITIES SAFETY REGULATIONS			
PURI	POSE	401	4-1	,-
GENE	ERAL INFORMATION	402	4-1	V
RESE	PONSIBILITIES	403	4-1	
	ACofS, Training	403.1	4-1	
	Base Training Facilities Officer	403.2	4-2	
	Base Special Services Officer	403.3	4-2	
	Base Communications-Electronics Officer	403.4	4-2	
	Base Explosive Ordnance Disposal Officer	403.5	4-2	
	Commanding Officer, Rifle Range Detachment	403.6	4-3	
	Commanding Officer of Training Units			
	Officer in Charge of Firing or Forward Air	403.8		
	Range Safety Officer	403.9	4-6	
	Position Safety Officer			

	PARA	PAGE
COORDINATION AND CONTROL OF LIVE FIRING	404	4-6
Training Facilities Branch	404.1	4-6
Base Range Control	404.2	4-6
SAFETY EQUIPMENT	405	4-7
Steel Helmets and Body Armor	405.1	4-7
Scarlet Streamers and Red Flashing Lanterns	405.2	4-7
Air Panels	405.3	4-7
Red Grenades and Pyrotechnics	405.4	4-8
Binoculars	405.5	4-8
WEAPONS AND AMMUNITION	406	4-8
Alteration of Ammunition	406.1	4-8
Tracer Ammunition	406.2	4-8
Blank Ammunition	406.3	4-8
Phosphorus and Toxic Agents	406.4	4-8
Flat Trajectory/High Velocity Weapons	406.5	4-8
Magazine Area	406.6	4-8
Field Storage	406.7	4-8
Malfunctions and Accidents	406.8	4-8
WARNING SIGNS/RANGE GUARDS/AND TOWER GUARDS	407	4-9
RANGE AND SURVEY CONTROL MARKERS	408	4-9
Range Markers	408.1	4-9
Survey Control Markers	408.2	4-9
FIRING RESTRICTIONS	409	4-10
Overhead and Flanking Fire	409.1	4-10
Firing Across Public Highways	409.2	4-10
Artillery and Mortars	409.3	4-10

		PARA	PAGE
	Fire and Maneuver Ranges	409.4	4-11
DΕ	EMOLITIONS	410	4-11
	Training	410.1	4-11
	Disposal of Unserviceable Ammunition	410.2	4-12
DĮ	JDS AND UNSERVICEABLE AMMUNITION	411	4-12
Α.	IR OPERATIONS	412	4-13
	Restricted Areas R-5306D and R-5306E	412.1	4-13
	Warning Area W-122	412.2	4-13
	New River Control Zone	412.3	4-13
	Coordination and Control	412.4	4-13
	Bombardment and Aerial Gunnery	412.5	4-14
	Close Air Support Operations	412.6	4-15
	Landing and Paradrop Zones	412.7	4-16
	Helicopter External Loads	412.8	4-17
	Aircraft Minimum Altitudes	412.9	4-17
	Aerial Observation School	412.10	4-18
	Artillery	412.11	4-18
	Communications	412.12	4-18
N	AVIGABLE WATERS	413	4-18
	Atlantic Coast Sector Danger Area	413.1	4-18
	New River Danger Areas	413.2	4-19
	Intracoastal Waterway Regulations	413.3	4-19
H	AZARDOUS AREAS	414	4-19
	Surface Danger Zone	414.1	4-19
	High Explosive Impact Areas	414.2	4-20

	PARA	PAGE
Common Impact Areas	414.3	4-21
Minefield Site	414.4	4-21
Contaminate or Hazardous Waste Site	414.5	4-21
FOREST FIRE DANGER SEVERITY RATINGS	415	4-21
COMMUNICATIONS CONTROL	416	4-22
General	416.1	4-22
Unit Responsibilities	416.2	4-23
Communications	416.3	4-23
Radio Communications	416.4	4-24
Air/Ground Communications	416.5	4-24
MISCELLANEOUS	417	4-25
Blank Firing and Pyrotechnics	417.1	4-25
Live Firing in Non-Designated Areas	417.2	4-25
Use of NBC Agents	417.3	4-26
SECTION V		
SMALL ARMS REMOTE TARGETED SYSTEM (SARTS)		
RANGES	501	5-1
SCHEDULING PROCEDURES	502	5-1
USING UNITS RESPONSIBILITIES	503	5-2
RANGE MAINTENANCE RESPONSIBILITIES	504	5-3
RETALIATORY DEVICES	505	5-4
DEMOLITIONS	506	5-5
APPENDIX A - GLOSSARY OF TERMS		
APPENDIX B - INDIVIDUAL RANGE REGULATIONS		
APPENDIX C - RANGE AND SURVEY CONTROL MARKER DESCRIPTION		

- APPENDIX D LIST OF TRAINING FACILITIES
- APPENDIX E TRAINING FACILITY REQUEST/ASSIGNMENT FORM MCBCL 3574/2
- APPENDIX F REGULATIONS FOR COMBAT TOWN
- APPENDIX G TRAINING FACILITIES DISCREPANCIES REPORT FORMAT
- APPENDIX H RANGE CHECKOUT FORM MCBCL 8200/1

#### SECTION I General Information

101. PURPOSE. The purpose of this SOP is to provide a single, concise, all-encompassing source document for commands using training facilities at Camp Lejeune or requiring training services from Marine Corps Base, Camp Lejeune. The SOP specifically delineates responsibilities, describes facilities available for training in the Camp Lejeune complex, provides instructions on how to obtain training services or the use of facilities and prescribes safety regulations for live firing and air operations.

## 102. DUTIES AND RESPONSIBILITIES

## 1. ASSISTANT CHIEF OF STAFF, TRAINING

- a. Plan, coordinate and supervise the operation of Base Training Facilities and services and plan for future development of training facilities and services under the cognizance of this Command.
- b. Promulgate appropriate directives, correspondence and messages regarding training facilities and services.
- c. Assume cognizance of the operation of the Base Training Facilities Branch, including formulation of policies for the scheduling, assignment, maintenance and minor construction of training facilities.
- d. Assume responsibilities as directed in other sections of this SOP.

## 2. ASSISTANT CHIEF OF STAFF, FACILITIES

- a. Implement staff action as required to accomplish the development, modification, and maintenance of Base Training Facilities after requirements have been determined by other staff sections or organizations and the concept approved by proper authority. Assume cognizance of range development projects for presentation to the Resources Board for Facilities Development Programs, for inclusion in the Military Construction Program.
- b. Recommend to the Resources Board for Facilities
  Development Programs priorities for these approved development
  projects that will be accomplished by station forces.
- c. Assist in coordinating technical support for completion of the planning phase of range development projects, including design supervision, material adequacy and cost estimation.

d. Establish working arrangements and material support required for all approved Troop Training Projects.

## 3. BASE SPECIAL SERVICES OFFICER

- a. Assume cognizance of live fire ranges and training pools when used for recreational purposes.
- b. Publish instructions or directives as necessary regarding the scheduling and operation of training facilities when used for recreational purposes.
- c. Assume responsibilities as directed in other sections of this SOP.

## 4. BASE MAINTENANCE OFFICER

- a. Conduct an annual training facilities inspection/
  evaluation with the Base Training Facilities Officer and establish
  a consolidated list of maintenance requirements. Assign priorities
  as recommended by the Training Facilities Officer. Designate
  projects which will be accomplished by Base Maintenance personnel,
  by the Training Facilities Branch, or which should be accomplished
  by contract.
- b. Program and budget for the maintenance of training facilities. Assign appropriate job order numbers to the Training Facilities Officer to accomplish maintenance of certain roads and grounds, buildings and structures, and for heavy equipment usage. Maintain secondary roads and tank trails including drainage culverts in accordance with priorities established by the Assistant Chief of Staff, Training.
  - c. Ensure that all field MAG lines are properly maintained.

## 5. BASE TRAINING FACILITIES OFFICER

- a. Assist the Assistant Chief of Staff, Training in the execution of responsibilities described in paragraph 102.1 above and other responsibilities assigned in this SOP.
- b. Coordinate the scheduling, assignments, and maintenance of all Base training facilities.
  - c. Serve as the Base Range Control Officer. See Section IV.
  - d. Recommend long range training facility development programs.

e. Supervise all activities of the Training Facilities Branch and assume responsibilities as directed in other sections of this SOP.

## 6. BASE COMMUNICATION-ELECTRONICS OFFICER

- a. Budget for and provide necessary communications equipment and maintenance support for Base Range Control requirements other than telephone facilities.
- b. Conduct a continuing review of all communications equipment provided to Base Training Facilities Branch to ensure operational capability and that equipment is adequate to meet the control requirements of Base Range Control.
- c. See paragraphs 403.4 and 416 in Section IV, and Appendix B for matters pertaining to communication control requirements.

## 7. BASE EXPLOSIVE ORDNANCE DISPOSAL OFFICER

- a. Provide routine EOD support as directed by the Base Training Facilities Officer.
- b. Provide emergency EOD support to commands at Camp Lejeune and local authorities as required.
- c. Provide inerting service for units when possible and approved by HQMC. Serviceable ordnance items must be supplied by requesting unit.
  - d. Insure unit training aids are certified "Inert/Empty".
- 8. COMMANDING OFFICER, RIFLE RANGE DETACHMENT. Ensure that facilities are utilized and policed in accordance with this SOP and other pertinent directives.
- 103. DEFINITIONS. Definitions of terms peculiar to Base training facilities and services are contained in Appendix A-Glossary. Locally approved terminology is used and does not necessarily correspond to official designations.

## 104. PECULIARITIES OF CAMP LEJEUNE

## 1. PHYSICAL CHARACTERISTICS

a. Marine Corps Base, Camp Lejeune encompasses approximately 109,000 acres, of which 81,000 are land. Approximately 40,000 acres are devoted to maneuver areas and another 30,000

acres contains field firing ranges. The Base perimeter is nearly 68 miles, with 14 miles of ocean front paralleled by the Intracoastal Waterway.

b. The heavy use of a relatively limited area for live fire and troop training exercises, compounded by airspace and waterway restrictions, necessitates efficient procedures of scheduling, assignment, use and positive control of Base training facilities and related air and sea space to insure economic and safe utilization of available real estate.

## 2. TERRAIN-AIRSPACE RELATIONSHIPS

- a. All airspace over Camp Lejeune is subject to Federal Aviation Regulations; however, a major portion of Camp Lejeune lies within airspace designated by the Federal Aviation Administration as Restricted Areas R-5306D and R-5306E. The "Controlling Agency" for these two areas is the Federal Aviation Administration, Air Route Traffic Control Center, Washington, D. C., and the "Using Agency" is designated as the Marine Corps Air Station, Cherry Point Approach Control under the command of the Commanding General, Marine Corps Air Station, Cherry Point, N.C. The Using Agency is responsible for proper management of the Restricted Airspace when it is being utilized by the Using Agency. The Controlling Agency may authorize IFR/VFR aircraft operations in the restricted areas when they are not being utilized by the Using Agency.
- b. By a Joint Use Letter of Agreement for Scheduling and Use of Restricted Area 5306 (sub-parts R5306D and R5306E) between Marine Corps Air Station (MCAS), Cherry Point and Marine Corps Base (MCB), Camp Lejeune, the Commanding General, MCAS, Cherry Point has sub-delegated the scheduling authority of R5306D and R5306E to the Commanding General, MCB, Camp Lejeune due to the nature and proximity of ground and air activity conducted within the respective Restricted Areas. Such authority is subject to the following specified procedures and responsibilities which have been established to ensure proper management of the Restricted Airspace when not in use:
- (1) The Camp Lejeune Range Control Officer (AVN 484-3064/5803) shall notify the Cherry Point Air Traffic Control Facility (ATCF) Watch Supervisor (AVN 582-2634, or established land line) of intended use of the subject airspace (normally by 1600 on the preceding day of scheduled activity, or one hour prior in other non-scheduled cases).
- (2) The notification by the Range Control Officer shall consist of, but is not limited to:

- (a) Date/s required.
- (b) Area (R5306D, R5306E or both).
- (c) Time period.
- (d) Altitude block.
- (e) Type of activity (specific).
- (3) The Range Control Officer shall notify the ATCF Watch Supervisor of any changes or cancellations of pre-scheduled activity.
- (4) The ATCF Watch Supervisor shall ensure that Washington Center (Missions)/New Bern Flight Service Station is notified of the schedule by 1830 on the preceding day of scheduled activity, or one hour prior in other non-scheduled cases.
- (5) Telephone notification, and subsequent communications, concerning scheduling, shall be documented by both parties and retained for a minimum of 18 months.
- (6) The ATCF Watch Supervisor shall coordinate with the Range Control Officer when the ATCF has an air traffic control requirement to use the pre-scheduled airspace. Requirements of this nature shall normally be limited to emergencies.
- (7) Normally, each Friday, the R5306D and R5306E weekend activity will be reported to the ATCF by 1600 and Washington Center by 1830.

## 3. NAVIGABLE WATERWAYS

- a. Live firing and amphibious training at Camp Lejeune frequently affects navigation on New River, the Intracoastal Waterway and offshore areas of the Atlantic Ocean. Waterways under Federal control are defined by the Director, Coast and Geodetic Survey, U.S. Department of Commerce, who publishes appropriate regulations regarding their use.
- b. The Secretary of the Army, through the U.S. Army Corps of Engineers, publishes Notices to Mariners for the navigable waters of the United States which are likely to be endangered by live firing. The authority to regulate traffic in and on the navigable waters at Camp Lejeune, however, has been delegated by the Secretary of the Army to the Commanding General, Marine Corps Base.

## 105. PLANNING AND PROGRAMMING REQUIREMENTS

- 1. The varied commands training at Camp Lejeune require many different types of training facilities. Different mission requirements, limited real estate, and airspace and waterway restrictions necessitate economical and efficient use of available facilities to satisfy all training unit requirements.
- 2. Future development of facilities to meet changing training requirements require careful consideration of future ordnance developments and training doctrine. Construction, maintenance and use of training facilities must meet current requirements, as well as allow for future developments.
- 3. Each major command utilizing facilities at this Base should continually review current and future training facilities requirements, making recommendations to this Headquarters, as appropriate, to enhance the successful accomplishment of their training mission at Camp Lejeune.

# SECTION II TRAINING FACILITIES

## 201. GENERAL

## 1. BACKGROUND INFORMATION

- a. Training Facilities Branch under the supervision of the Assistant Chief of Staff, Training, controls and maintains training facilities aboard Camp Lejeune, including all maneuver areas and live fire ranges. The Training Facilities Officer serves as the Base Range Control Officer and exercises the coordination and control necessary to ensure a safe relationship exists between separate units utilizing live fire ranges, maneuver areas, high ordinate gun positions and air space.
- b. Base Training Facilities Branch is the primary scheduling agency for Base Training Facilities except the Base Rifle Range. In some cases, training facilities are assigned on a priority of use basis to the training unit or command that is the principal user, in order to reduce administrative scheduling requirements. Priority of use assignments for live fire ranges are listed in paragraph 202. See Appendix D for scheduling agencies of field training facilities.
- c. This Command publishes a weekly firing notice to apprise garrison units of all authorized live firing and high ordinate airspace utilization within Restricted Areas R5306D and R5306E in accordance with reference (a). (Note: Live firing and high ordinate airspace utilization is not authorized over land areas outside of R5306D and R5306E.) In addition, scheduled use of tactical landing zones, maneuver areas, sea space and Combat Town is published in the weekly firing notice. The firing notice is published at least ten days prior to the first day of the week of training. Notices to Airmen, messages concerning the utilization of air space and Notices to Mariners are published concurrently with the weekly firing notice.
- d. Camp Lejeune Special Map, Approaches to New River, Stock Number V-742 SCPLEJEUNE 5th Ed., Sep 25,1976, contains geographic locations and boundaries of ranges, maneuver areas and field training facilities.
- e. Live fire ranges are described in Appendix B. Field training facilities are listed in Appendix D.

#### 2. SCHEDULING PROCEDURES

a. Requests for training facilities under control of Base Training Facilities Officer will be submitted in accordance with the instructions in paragraphs 202 through 206, using one of the following methods:

- (1) Submit memorandum request via the chain of command to the Base Training Facilities Officer. Approval or disapproval of requests is confirmed by publication of the weekly firing notice and/or return endorsement.
- (2) Submit letter via the chain of command to this Headquarters (Attn: Assistant Chief of Staff, Training) for late requests, changes to the weekly firing notice and special requests as required in paragraph 206 below. Approval or disapproval of requests is confirmed by return endorsement.
- (3) Telephone Base Training Facilities Officer (Attn: Scheduling NCO, ext. 3064) for routine requests not requiring promulgation in the weekly firing notice. Second Marine Division and 2dFSSG (Rein) units relay telephone requests via the chain of command. In certain cases, late requests, requests to change the weekly firing notice and special requests may be telephoned, but must be followed by written confirmation of the request.
- b. Deadlines for requests to the Base Training Facilities Officer are described in paragraphs 202 through 206 below.
- c. When other commitments preclude use of a scheduled facility, the unit/command scheduled to use the facility will notify the Base Training Facilities Officer, via the chain of command, of the cancellation as soon as it is apparent that cancellation is required.

## 3. POLICE OF TRAINING FACILITIES

- a. Police of Base Training Facilities and maneuver areas is the responsibility of the using unit.
- b. Several trash pick-up points have been established throughout the Base and are serviced by Base Maintenance. The locations of these points are: Marine Road (878331); Sneads Ferry Road (902321); Mile Hammock Bay Road (873283); LZ Goose (919311); OP-2 (914373). Before securing from the training area utilized, each unit will police the area thoroughly and remove their trash to one of the above trash pick-up points or the main trash dump. Metal or lumber should not be placed in the Dempster Dumpster type containers, but will be taken to the main trash dump. Ordnance items, boxes, powder, fiber containers etc., must be returned to the Main Ammo Dump.

- c. In addition, a police program has been established with the concurrence of the Commanding Generals, 2d Marine Division and 2dFSSG (Rein) to operate on a continuing basis. This police detail is assigned on a permanent basis, Monday through Friday, holidays excepted.
- (1) The police detail consists of the following personnel and equipment:
- (a) Three Corporals/Lance Corporals (must be qualified prisoner chasers) and one covered 6x6 cargo truck with vehicle operator provided by Commanding General, 2d MarDiv.
- (b) One Sergeant (NCOIC) and one dump truck with vehicle operator provided by Commanding General, 2d FSSG, (Rein).
- (c) Fifteen prisoners for the detail provided by the Marine Corps Base Correctional Services Officer.

## (2) Special Instructions:

- (a) The NCOIC of the police detail will report to the Training Facilities Maintenance Officer, Bldg. 827, (ext. 3542), by 0700 each working day for instructions and the necessary tools to accomplish the day's assignments.
- (b) Prisoner chasers and vehicle operators (with vehicles) will report by 0700 each working day to the NCOIC of the range police detail at Training Facilities Maintenance, Bldg. 827.
- (c) The NCOIC will form his work detail at the Base Correctional Facility, and proceed with the police of assigned ranges, reporting back to the Range Maintenance Officer when the assignment has been completed or by 1600.

## 4. TRAINING FACILITIES DISCREPANCY REPORTS

- a. Periodic inspections are conducted by the Range Control and Range Maintenance Sections of the Base Training Facilities Branch to ensure effective and timely police and maintenance of training facilities and adherence to safety regulations.
- b. Unit commanders and their representatives are encouraged to report discrepancies in the safe use, police and maintenance of training facilities to the Base Training Facilities Officer. Appendix G is the format used by the Base Training Facilities Branch.

## 202. LIVE FIRE RANGES

## 1. REQUESTING PROCEDURES

- a. Requests for assignment of and/or authorization to conduct live fire on ranges will be submitted to this Head-quarters by one of the methods described in paragraph 201.2 above. Requests must arrive by 1600 on the Monday, fourteen days prior to the first day of the week of training. Requests will include:
  - (1) Range requested.
  - (2) Date and hours of firing.
  - (3) Designation of firing unit.
  - (4) Weapons and ordnance to be fired
  - (5) Coordinates of gun positions
  - (6) Observation Posts
- (7) Any amplifying information, such as requests to close highways or the Intracoastal Waterway.
- b. Changes to previous requests and late requests may be submitted to arrive no later than 1200 on the Thursday preceding the week of training. Normally, requests involving changes to the use of air or sea space which require Notices to Airmen or Notices to Mariners will not be permitted.
- c. When requesting permission to use non-designated gun positions, justification and overlays of the surface danger zones will be prepared in accordance with reference (a) and will accompany the range request.
- d. When other commitments preclude use of a scheduled facility, the unit/command scheduled to use the facility will notify the Base Training Facilities Officer via the chain of command of the cancellation as soon as it is apparent that cancellation is required.
- 2. PRIORITY ASSIGNMENTS. Assignment of ranges on a priority of use basis does not preclude the necessity of requesting authorization and adhering to Marine Corps Base Safety Regulations. Priority assignments to the training unit or command that is the principal user are:

- a. Range A-1 is assigned to Marine Corps Service Support Schools.
  - b. Range D-9 is assigned to Base Special Services.
- c. Range G-4 is assigned to 2d Marine Division for use by the 2d Combat Engineer Battalion.
- d. Range G-4A "Duck Pond" (GC 93353340) and Range K-326 "Verona Loop" are assigned to EOD units aboard Camp Lejeune and New River MCAS (H) for the disposal of ammunition and stripping of ordnance related items.
- e. Ranges I-1 and I-2 are assigned to Marine Corps Engineer School.

## 203. TACTICAL LANDING ZONES AND PARADROP ZONES

## 1. REQUESTING PROCEDURES

- a. Requests for assignment of Tactical Landing Zones involving helicopter or paradrop operations will be submitted to arrive by 1600 on the Monday, fourteen days prior to the first day of the week of training. Requests will include:
  - (1) Name of TLZ.
  - (2) Date and hours of training.
  - (3) Designation of training unit.
- (4) Type training (Troop lift, equipment lift, personnel paradrop, equipment paradrop or helicopter crew training).
- b. Requests not involving use of air space must be submitted to arrive by 1200 on the day preceding training and will include the information required in paragraph 203.1.a above.
- 2. NON-SCHEDULED USE OF TLZ's BY HELICOPTER UNITS. Use of Tactical Landing Zones is permitted without formal scheduling, providing permission is requested from and granted by the Range Control Officer. See paragraphs 412.4,b, 412.6.a and 412.7.

## 3. PARADROP EXERCISES

a. Paradrop exercises may be conducted in the airspace within Restricted Area R5306D into the following TLZ's (See Appendix D): Albatross, Bluebird, Canary, Falcon, Penguin, Goose, Crow and Dodo.

b. Paradrop exercises in the airspace within the MCAS (H), New River Control Zone into TLZ's Cardinal, Condor and Eagle may be conducted with prior approval and coordination of the Commanding Officer, MCAS (H) New River in accordance with Federal Aviation Regulations.

## 204. MANEUVER AREAS

1. Requesting procedures. Maneuver areas may be requested from the Base Training Facilities Officer at any time by one of the methods described in paragraph 201.2.

#### 2. MISCELLANEOUS

- a. Maneuver areas CA, CB, DA, that portion of DC south of the Main Service Road and west of gridline 87, and the FAD area in grid squares 8742 and 8741 are in a restricted category and are not available for training.
- b. QB area within that portion of GS 9437 south of Lyman road is reserved for Division Training and Evaluation Unit. Units conducting training within this section will remain clear of buffer zone.
- c. D-11A, GS 8736 and GS 8737 north of main service road is assigned to 2d Tank Battalion.
- d. Commanders of units scheduled to utilize training/maneuver areas will designate a commissioned officer to check out the desired area(s) from Base Range Control. This officer will accomplish the following:
- (1) Report to Base Range Control, Building #1 and sign the Assumption of Responsibility for Maneuver Areas check out sheet and receive briefing at least 24 hours prior to scheduled time of use.
- (2) Upon arrival at training site(s) report any police discrepancies immediately to Range Control.
- (3) Upon completion of training and within 24 hours, return completed check-out sheet to Range Control.
- e. Scheduling and assignments of maneuver areas does not include the use of training facilities within that area.
- f. Certain sites within the training areas; i.e. Fish Management Ponds and Red Cockaded Woodpecker sites are off limits to track vehicles. The woodpecker sites are conspicuously marked, and the buffer zones will be avoided by mechanized vehicles.
- (1) Tracked vehicle prohibited areas will extend outward 50 meters from the waters edge of managed fresh water fish ponds.
- (2) When entering these areas tracked vehicles are restricted to the use of designated tank trails and roads. Every effort will

be made to minimize ecological damage to areas traversed by mechanized vehicles.

- g. In non-restricted areas tracked vehicle commanders may move off established trails in order to tactically maneuver his vehicle or unit, assume defensive positions, seek camoflage and concealment or conduct a final assault. In each case, the vehicle commander will insure conservation measures set forth in reference (w) and (x), use discretion to avoid damaging man-made facilities and minimize damage to ground cover.
- h. When other commitments preclude use of a scheduled maneuver area, the unit/command scheduled to use the area will notify the Base Training Facilities Officer via the chain of command of the cancellation as soon as the schedule change is known.
- i. Tracked and wheeled vehicles will cross railroad tracks only at designated crossings.
- j. All tracked vehicles will cross hard surface roads (highways) at authorized crossings when conducting administrative road marches and non-tactical type training. (During tactical operations/exercises tracked vehicles will be authorized for crossing anywhere on hard surface roads when safe movement is absolutely insured and no road damage will result.) Prior to crossing any hard surface roads, road guards will stop all traffic coming from either direction. When safe movement is ensured tracked vehicles will proceed across the highway. Upon completion of the crossing, all debris (i.e. dirt, mud), will be removed from the highway to prevent any safety hazards to traffic.

## 205. FIELD TRAINING FACILITIES

## 1. REQUESTING PROCEDURES

- a. Requests for field training facilities which are assigned by Base Training Facilities Officer, except Combat Town, may be submitted any time by one of the methods described in paragraph 202.2 above and will include the name of the facility, date and hours of desired use and the designation of the using unit.
- b. All Range Safety Officers and Commissioned Officers designated to check out training/maneuver areas will read and familiarize themselves with references (w) and (x) prior to assumption of responsibility.
- c. See Appendix D for major field training facilities available and the appropriate scheduling agencies for each.

## 2. COMBAT TOWN

- a. Requests for training in Combat Town will include:
  - (1) Date and hours of use.
- (2) Designation of the using unit and officer in charge of training.

- (3) Scope of training, including intended use of vehicles, pyrotechnics, land mine/booby trap simulators and blank firing.
- b. In all cases, units scheduled to train in Combat Town will designate an officer in charge of training who will sign the facility out and in as prescribed for live fire ranges in paragraph 403.8 in Section IV.
- c. Requests for use of Combat Town must be received at least 24 hours prior to the unit entering the area. Telephone requests normally will not be accepted.
  - d. See Appendix F for special regulations for Combat Town.
- e. The Range Safety Officer will read and familiarize himself with reference (w) and sign an assumption of responsibility.

## 206. SPECIAL REQUESTS

#### 1. CAMP DAVIS

- a. Marine Corps Helicopter Out Lying Field (MCHOLF), Camp Davis is leased from International Paper Company and is under the operational control of the Commanding Officer, MCAS (H), New River. The leased area consists of the two (2) runways and a 600 foot helicopter safety strip around each runway.
- b. Request for use of MCHOLF must be submitted to this Headquarters (Attn: Assistant Chief of Staff, Training) a minimum of 30 days prior to training dates. Request must contain the following information
  - (1) Date and time of use.
  - (2) Specific area to be used.
  - (3) Using unit.
  - (4) Number of troops
  - (5) The scope and nature of training to be conducted

#### 2. NATIONAL FORESTS

a. An agreement between the Department of the Navy and the Department of Agriculture provides for the use of national forest lands for training purposes only when other available facilities are determined to be inadequate. The Commanding General, Marine Corps Base, has the delegated authority to execute an agreement with the Forestry Service

for use of national forests for training periods not to exceed seven consecutive days. Periods of training in excess of seven days must be processed by the Commandant of the Marine Corps.

- b. Requests for use of national forest lands for training not to exceed seven consecutive days will be submitted by letter to arrive at this Headquarters (Attn: Assistant Chief of Staff, Training) at least 45 days prior to date training is to commence. Requests for training periods in excess of seven days will be submitted at least 60 days prior to date training is to commence.
- c. The using commander shall meet with the Forest Supervisor's designated Forest Liaison Officer at or near site of planned occupancy approximately one week prior to requested beginning date of forest occupancy. Purpose of meeting is to discuss and grant approval of specific sites for bivouac, sanitary facilities parking areas, trash disposal, use of forest roads and other related impacts resulting from use by the military of National Forest lands. The using unit commander will post those Forest Service system roads in the immediate vicinity of the exercise area with signs to caution the public of the roads use by military vehicles.
- d. In addition to special instructions received from the Forest Liaison Officer, all range regulations which apply to Camp Lejeune ranges apply to National Forests.

## 3. CIVIL DISTURBANCE TRAINING

- a. Civil disturbance training will be conducted in designated maneuver areas and Base Combat Town whenever possible. When necessary to achieve realism, or to conduct demonstrations, certain portions of administrative areas may be requested; however, administrative areas will not normally be scheduled during hours that facilities in these areas are open.
- b. Requests for use of an administrative area will be submitted by letter to arrive at this Headquarters (Attn: Assistant Chief of Staff, Training) at least two weeks prior to the date requested. The request will include the following information and will be forwarded via the appropriate area commander, who will endorse concurrence or non-concurrence.

- (1) Date and hours desired including rehearsals.
- (2) Special equipment, vehicles, ammunition to be used.
- (3) Sketch of the specific area desired, including building numbers, streets and boundaries within which the exercise will be conducted.
- (4) Purpose of the exercise (i.e. Training, demonstration).
- (5) Amplifying information, including measures to be taken to block traffic, and mark and post the area.
- c. The following regulations apply to the use of administrative areas for training purposes:
- (1) The use of smoke will be confined to streets only, with special precautions taken to ensure that smoke grenades are not placed against buildings.
- (2) The use of grappling hooks or similar equipment is not permitted.
- (3) The area will be well posted and marked to ensure the safety of unsuspecting personnel.
- (4) A minimal amount of rifle blank ammunition may be used to simulate sniper fire.
- (5) Training is restricted to street level; access into buildings or on rooftops is prohibited.
- (6) Training will not interfere with normal operations within the authorized area. Access may be controlled, but not denied to commercial freight carriers, who will be allowed uninterrupted entry into, passage through and exit from the area. The training unit will not interfere with personnel required to conduct business within the area. Specifically prohibited is the practice of treating unsuspecting persons as a part of the exercise to achieve realism.

- (7) The use of administrative areas for training purposes normally will not include Holcomb Boulevard, Sneads Ferry Road, Main Service Road or other main traffic arteries.
- (8) Administrative areas will not be scheduled for training during traffic rush hours or during peak hours at public facilities such as the Commissary, Exchange and Service Station.
- 4. SPECIAL TRAINING EXERCISES. Requests for combined air/ground exercises, Joint Civilian Orientation Conference (JCOC), Special Purpose Exercise (SPEX), Reserve Landing Exercises (i.e. RESLEX) and other large scale training exercises will be submitted to the Base Training Facilities Officer by the senior command involved, via the chain of command as a consolidated request package, using either or both Form MCBCL 3574/2 (Appendix E) and letter requests as necessary. For deadlines for the submission of requests, refer to the appropriate subparagraph for each type request (i.e. live firing, TLZ, Intracoastal Waterway closure, etc.). Subsequent changes and late requests will be submitted in accordance with paragraph 201.2.a.(3) above.
- 5. <u>CLOSURE OF THE INTRACOASTAL WATERWAY</u>. Requests for closure of the Intracoastal Waterway will be submitted by letter to this Headquarters (Attn: Assistant Chief of Staff, Training) as follows:
- a. Closure of less than 12 hours must be received at least 45 days in advance of the closure.
- b. Closures in excess of 12 hours must be received at least 20 weeks in advance of the closures.
- 6. CLOSURE OF HIGHWAYS. Requests for closure of Highway 172 or other main traffic arteries in Camp Lejeune for the purpose of conducting training exercises will be submitted by letter to arrive at this Headquarters (Attn: Assistant Chief of Staff, Training) by 1200, Monday, 14 days prior to the first day of the training week concerned.

## 7. LIVE FIRE IN NON-DESIGNATED AREAS

a. Requests to conduct live fire exercises in areas not designated as live fire ranges, or the use of weapons and ammunition on ranges for which Appendix B does not specifically

authorize such use, will be submitted by letter to this Headquarters (Attn: Assistant Chief of Staff, Training) setting forth all pertinent details and justification for the request.

- b. Permission to use ½ pound TNT blocks to provide realistic training on ranges or areas not authorized by Appendix B may be requested by memorandum to the Base Training Facilities Officer, to arrive at least 14 days prior to the date of training.
- c. Overlays of the surface danger zone are required if the use of non-designated gun positions is requested.

#### 8. ONSLOW BEACH RECREATIONAL AREA

- a. Requests for training in this area will be submitted by letter to this Headquarters (Attn: Assistant Chief of Staff, Training), at least two weeks in advance of the training to be conducted.
  - b. See reference (b).
- 9. <u>USE OF RED PYROTECHNICS</u>. Red smoke grenades and pyrotechnics are used as an emergency or danger signalling device and will not be used for training unless specifically authorized by the Assistant Chief of Staff, Training.
- 10. <u>USE OF NBC AGENTS</u>. Notify the Base Training Facilities Officer by telephone or memorandum at least 48 hours prior to the intended outdoor use of CS and standard agent simulants. Use of NBC agents will be in accordance with regulations contained in paragraph 417.3 of this order.
- 11. SUSPENSION OF SAFETY REGULATIONS. Requests to temporarily suspend any portion of the safety regulations contained in Section IV due to training requirements will be submitted in writing, setting forth all attendant circumstances and justification, to this Headquarters (Attn: Assistant Chief of Staff, Training).
- 12. PRESERVATION OF TREES AND OTHER MAJOR VEGETATION. In the interest of preservation of natural ground cover, no trees, flowering shrubs, wild game food plots, or other major vegetation will be damaged, cut or otherwise removed without specific authority. Requests for removal of vegetation will be directed to this Headquarters (Attn: Assistant Chief of Staff, Training).
- 207. PROHIBITED AREAS. The following areas are restricted to entry and for training as follows:

#### 1. HAZARDOUS AREAS

- a. High Explosive Impact Areas
- (1) G-10, K-2 and N-1 impact areas may be entered only when accompanied by explosive ordnance disposal personnel and with the permission of the Base Range Control Officer. No training will be authorized within those areas except for EOD Personnel.
- (2) No training will be scheduled on the down range portions of ranges F-6, G-8, K-211, K-323, K-325, G-9, K-301, K-303, K-305 and K-405, with the exception of EOD Personnel. Down range movement is permitted only if accompanied by explosive ordnance disposal personnel.
- b. Live Minefield Site: See reference (c). (Grid coordinates 936310 to 939306 to 943309 to 943313)
- c. Chemical Dump. See reference (d). (Grid Square 7728)
- 2. EXCLUSION AREAS AND LIMITED AREAS. Building SH-8 and Magazines SHE-12 and SHE-13 are designated as Exclusion Areas and the fenced in areas surrounding them are designated as Limited Areas.
- 3. RESTRICTED CATEGORY TRAINING AREAS. Maneuver areas CA, CB, DA, that portion of DC south of the Main Service Road and west of gridline 87, and the FAD area in grid squares 8742 and 8741 are in a restricted category and are not available for training.
- 4. <u>ADMINISTRATIVE AREAS</u>. Training normally is not permitted in administrative areas, except in specific training facilities located within the area, such as D-9, D-29, D-30 small arms ranges and the area five training pool.
- 5. ONSLOW BEACH. The beach area is the primary amphibious training area at Camp Lejeune. When not in use for training, the central portion, designated Onslow Beach, is open for recreational purposes. For safety purposes, the use of Onslow Beach for training requires specific authorization at least two weeks in advance of training. Use of blank ammunition and explosives may be authorized in accordance with the procedures set forth in paragraph 206.8.
- 6. <u>FOOD PLOTS</u>. Food plots are located within maneuver areas and are prominently marked. Units will remain clear of all food plots.

#### 208. MISCELLANEOUS

#### 1. ADMINISTRATIVE LANDING ZONES

- a. ALZ's are not formally scheduled although aircraft landing at LZ 4 will obtain clearance from Base Range Control prior to touchdown. (ALZ 4 is not authorized for Helo Ops during the hours of 0745 to 0815 daily). Advance notification of the intended use of an ALZ for other than routine administrative operations should be made to the appropriate area commander.
- b. In all cases, aircraft penetration of Restricted Areas R-5306D and R-5306E while in use, will be controlled by Base Range Control by radio.

#### 2. RECREATIONAL USE OF TRAINING FACILITIES

- a. Training pools, Area #2 and Montford Point, are available for recreational use of units and dependents, subject to training requirements. See Appendix D.
- b. Requests for recreational firing will be submitted as indicated via the Assistant Chief of Staff, Training:
  - (1) B-12 (Pistol and .22 Rifle Range) Base TFO
  - (2) D-6 (cal .22 Range) Base TFO
  - (3) D-9 (Skeet Range) Base Special Services Officer
  - (4) F-11 (Pistol Range) Base TFO
  - (5) Base Rifle Range CO, Rifle Range Detachment
- 3. REQUESTS FOR CIVILIAN AND MILITARY DEPENDENTS TO OBSERVE TRAINING ABOARD CAMP LEJEUNE. Request for authorization to permit civilian personnel and military dependents to observe training aboard Camp Lejeune will be submitted, via chain of command to CG, MCB (Attn: Assistant Chief of Staff, Training) stating:
  - a. Type of training (ordnance to be fired).
  - b. Date and time.
  - c. Training area.

# SECTION III TRAINING SERVICES

## 301. GENERAL

1. <u>BACKGROUND INFORMATION</u>. The Base Training Facilities Branch, under the supervision of the Assistant Chief of Staff, Training, provides various services to military units utilizing training facilities at Camp Lejeune in addition to those authorized in Section II.

# 2. TRAINING SERVICE AVAILABLE

- a. Minor construction and maintenance of training facilities.
  - b. Explosive ordnance disposal team support.
  - c. Wet-Bulb Globe Temperature reports.
  - d. Blast forecast for the Camp Lejeune Area.

# 302. MINOR CONSTRUCTION AND MAINTENANCE

1. MINOR CONSTRUCTION. New construction projects may be authorized for accomplishment by troop training provided the criteria outlined in reference (e) is met and approval is received from the Assistant Chief of Staff, Facilities, Marine Corps Base.

# 2. MAINTENANCE

- a. Routine maintenance of training facilities is performed on a regular basis by the Training Facilities Branch, Range Maintenance Section and includes:
  - (1) Repair of gates, fences, signs and flagpoles.
- (2) Limited repair of buildings, structures and towers.
- (3) Improvement of firing lines, berms, and firing pits.
  - (4) Clearance of undergrowth.

- (5) Repairs to target carriers, railways and targets.
- (6) Repairs to training devices such as weapons simulators and pop-up targets.
- b. Emergency maintenance of training facilities within the capabilities of the Range Maintenance Section will be performed as soon as possible on a priority basis when required to preclude lost training time or ineffective training.

### 3. REQUESTING PROCEDURES

#### a. Minor Construction

- (1) All requests involving construction, alteration, repair or replacement of real property, and involving a training consideration, will be submitted to the Base Assistant Chief of Staff, Facilities. The request will be submitted via the Assistant Chief of Staff, Training, who will make appropriate recommendations by endorsement regarding the validity of the training requirement, estimated costs, and capabilities of the Range Maintenance Section to perform the project. The Training Facilities Officer will assist in the preparation of this endorsement.
- (2) Projects will be submitted between 1 March and 1 May annually and will include a priority listing. Emergency projects or changes in priorities of the annual submission may be submitted at any time.
- (3) The Range Maintenance Officer (phone 5211/3542) will provide cost estimating assistance to requesting units prior to submission of construction requests.

# b. Minor Maintenance

- (1) Requests or recommendations for routine maintenance of training facilities will be submitted to the Training Facilities Officer in writing. The use of Appendix G by using units and Appendix H by officers in charge of firing will be utilized for this purpose.
- (2) Emergency requests for minor maintenance of training facilities may be telephoned to the Range Control Duty Officer (3064) or the Range Maintenance Officer (3542/5211).

## 303. EXPLOSIVE ORDNANCE DISPOSAL

- 1. <u>SUPPORT PROVIDED</u>. The Base Explosive Ordnance Disposal Team, supported by the 2d FSSG Explosive Ordnance Disposal Platoon and the MAG-29, New River, Marine Corps Air Station (H) Explosive Ordnance Disposal Team, provides routine training and emergency support in accordance with reference (f) including:
  - a. Clearance of unexploded ordnance on live fire ranges.
- b. Disposal of explosive ordnance jettisoned or dropped from aircraft, or which has been involved in a fire or accident.
  - c. Support for the disposal of unserviceable ammunition.
- d. Assistance to units conducting live fire, such as hand grenades.
- e. Support for emplacement of targets in high explosive impact areas.
- f. Provide Inerting Service when possible to those training units supplying serviceable ordnance items.
  - g. Insure unit training aids are certified "Inert/Empty".
- 2. AREAS OF RESPONSIBILITY. By mutual agreement, the Base EOD Team and MAG-29 EOD Team are responsible for routine support of the Camp Geiger/Verona Loop Area and ranges west of New River, while the 2d FSSG EOD Platoon supports units and ranges east of New River. Emergency support is provided by the EOD Duty Watch, manned by all three (3) EOD units.

# 3. REQUESTING PROCEDURES

- a. During normal working hours telephone the Base EOD Team, located at Building G-480, Camp Gieger (phone 0118 or 0382) or Base Training Facilities Officer (phone 3064/3065).
- b. After working hours telephone the Base Staff Duty Officer (phone 2526 or 2527).
- c. Emergency requests will include the name and organization of the requesting individual and the location and description of the ordnance involved.

1

#### 304. WET-BULB GLOBE TEMPERATURE REPORTS

- 1. GENERAL. Marine Corps Base operates five Wet-Bulb Globe Temperature (WBGT) Stations in accordance with reference (g) from 1 May to 30 September, annually, to provide WBGT Index readings to all commands at Camp Lejeune during the heat casualty danger period.
- 2. WBGT STATIONS The Base Training Facilities Officer coordinates the operation of the following WBGT Stations in accordance with reference (h):

Station Number 1, Bldg. 1404 (Mainside) Phone 5046

Station Number 2, Base Rifle Range Phone 7131/7257

Station Number 3, Bldg, BB-28 (MCES) Phone 7470/7200

Station Number 4, Bldg, TC-705 (8th Marines) Phone 0418/0225

Station Number 5, Bldg, M-131 (MCSSS) Phone 6233/6163

3. REQUESTS FOR WBGT INDEX. WBGT Index readings may be obtained from the appropriate station between the hours of 0800-1700 Monday through Friday. Units requiring readings on weekends and holidays will telephone the Base Training Facilities Officer (5803) at least 48 hours in advance of the scheduled training.

#### 4. MISCELLANEOUS

- a. Units are cautioned that readings vary from station to station; therefore, reports should be requested from the station nearest the locale of the training to be conducted. See reference (h) for information regarding heat casualties and application of WBGT Index readings to training situations.
- b. Annual establishment of WBGT station is published in a Base Bulletin, Series 6200, each April.

# SECTION IV TRAINING FACILITIES SAFETY REGULATIONS

401. <u>PURPOSE</u>. To promugate regulations for control and safe use of areas on which live or simulated fire and air operations are conducted at Marine Corps Base, Camp Lejeune.

#### 402. GENERAL INFORMATION

- 1. Map References. See references (i) and (j).
- 2. Definitions. See Appendix A. Training facilities are designated by locally approved terminology which does not necessarily correspond to the official designations listed on plant account records.
- 3. Safety regulations governing the firing of live ordnance within the boundaries of Camp Lejeune are based primarily on reference (a). All training involving the use of live ammunition or explosives will be in accordance with that document, other applicable field and technical manuals and this order.
- 4. By agreement with the Commanding Officer, MCAS (H) New River, the Weather Service Division will furnish to the Base Range Control Office, daily, recommended limitations (Blast Forecast) on the weight of high explosives which may be detonated on those ranges on which such ordnance may be employed. The limitations will apply to the detonation of single rounds/charges. No deviation from the limitations imposed will be permitted except by express authority of the Assistant Chief of Staff, Training. Additional readings of ordnance limitations may be obtained by contacting the Base Range Control Office. (3064).

#### 403. RESPONSIBILITIES

#### 1. ASSISTANT CHIEF OF STAFF, TRAINING

- a. Conduct a continuing review to insure safety regulations are adequate for all training facilities.
- b. Supervise the activities of the Base Range Control Officer.
- c. Publish a weekly firing notice of all scheduled field firing and high ordinate air space utilization to advise garrison units in accordance with reference (a).

d. Prepare and request publication of weekly Notices to Airmen (NOTAM's) and Notices to Mariners describing the air space and waters within which live firing will be conducted.

#### 2. BASE TRAINING FACILITIES OFFICER

- a. Assist the Assistant Chief of Staff, Training in the execution of his responsibilities as described in paragraph 403.1.
  - b. Serve as the Base Range Control Officer and:
- (1) Exercise coordination and control necessary to insure safe relationships exist between separate units using training facilities, air space and waters.
- (2) When required, provide a range control commissioned officer duty watch during live firing, paradrops and air operations.
- (3) Assign priorities for the use of ranges, air space and waters and so indicate in the weekly firing notice.
- (4) Authorize only that live firing as published in the weekly firing notice and subsequent changes.
- (5) Conduct field training safety inspections periodically.
- 3. BASE SPECIAL SERVICES OFFICER. Enforce safety regulations on ranges under the cognizance of Base Special Services.

### 4. BASE COMMUNICATIONS-ELECTRONICS OFFICER

- a. Conduct a continuing review of the use of communications equipment to insure that the operational capability and equipment is adequate to meet the control and safety requirements of the Base Training Facilities Branch.
- b. See Appendix B and paragraph 416 of these regulations for matters pertaining to communication control and safety requirements on specific ranges.
- 5. BASE EXPLOSIVE ORDNANCE DISPOSAL OFFICER. Provide EOD support as directed by Base Training Facilities Officer.

6. <u>COMMANDING OFFICER</u>, RIFLE RANGE DETACHMENT. Supervise the operation of, promulgate and enforce safety regulations for ranges under his cognizance in accordance with existing directives. See Appendix B.

## 7. COMMANDING OFFICER OF TRAINING UNITS

- a. Designate an officer in charge of firing or tactical air controller for each live fire, air or air/ground exercise.
- b. Insure that Range Safety Officers assigned as officers in charge of firing are familiar with reference (a) and these regulations.
- c. When commissioned officer personnel are not available a qualified Staff Noncommissioned Officer may be designated as Range Safety Officer.
- d. Conduct only that training that has been authorized in the weekly firing notice or authorized changes thereto.
- e. Provide medical corpsman with first aid equipment and military emergency vehicle as specified in Appendix B.

# 8. OFFICER IN CHARGE OF FIRING OR FORWARD AIR CONTROLLER

- a. Designate, instruct and supervise range safety officer, position safety officers, range guards and air sentries as required. See Appendix B.
- b. Direct and designate Range Safety Officer to report to the Range Control Duty Officer at Base Training Facilities (Bldg. 1) prior to proceeding to the range and:
- (1) Assume responsibility for the scheduled range and related air and sea space. See Appendix H.
- (2) Obtain safety equipment as specified in Appendix B.
- (3) Receive briefing on conditions or events that may affect range utilization.
- (4) Certify that all pertinent range and safety regulations have been read, understood and will be complied with.
- c. Be physically present and personally direct and control all firing and/or air operations.

- d. Insure that a copy of these regulations are in his possession at all times live firing, air or air/ground operations are being conducted.
- e. Coordinate, as advised by Range Control Duty Officer, with units using adjacent ranges or facilities to ensure safe conduct of the exercise.
- f. Ensure all required communications have been established as specified in Appendix B. and paragraph 416 of these regulations.
- g. Receive clearance by telephone or radio from Range Control Duty Officer before commencing the exercise and conduct radio checks with Blackburn every 30 minutes.
- h. In the event of serious injury or death, suspend the exercise and:
  - (1) Render first aid.
- (2) Inform the nearest medical facility by the fastest means available of the location, nature of the accident and assistance required.
- (3) If air evacuation is required, contact Range Control Duty Officer by radio, BLACKBURN (38.6 Megahertz VHF, or 325.0 Megacycles (UHF) field phone or Base telephone (3064, 3065) In the event Base Range Control cannot be contacted after normal working hours call the Base Command Duty Officer (2526, 2527).
- (4) Notify Range Control Duty Officer of the location, nature of accident and action that has been taken.
- (5) In the event Range Control cannot be contacted during normal working hours, notify Assistant Chief of Staff, Training, phone 5326 or 5720.
  - (6) Notify the Provost Marshal's Office, phone 2555.
- i. Ensure compliance with existing fire regulations as set forth in reference (k).
- j. Ensure personnel clear all weapons and turn in all unused ammunition upon conclusion of the exercise.
- k. Immediately report dud locations to Range Control Duty Officer, (See paragraph 411 of this order).

- 1. Notify Range Control by radio or telephone upon completion of firing.
- m. Ensure brass and cartridge cases and reusable containers are removed from the range upon completion of the exercise, refer to reference (n).
- n. Ensure all trash is removed from the range. Do not bury or burn trash.
- o. Upon securing from the range or facility, return to the Range Control Duty Officer within 24 hours of completion of firing and:
  - (1) Report the range or facility secure and policed.
  - (2) Return safety equipment.
- p. In the event of an accident or incident which could involve a claim against the government or an injury which may require hospitalization in excess of 24 hours, immediately initiate an appropriate investigation. Report the accident or incident to the Base Range Control Officer and Commanding Officer of the training unit. Cease all firing on the range of the incident and request the Base Range Control Duty Officer to cease fire on any adjoining ranges that may interfere with conducting the investigation. This investigation should determine the extent of damage or injury, cause of the incident and immediate corrective action to be taken. This information should be reported to the Base Range Control Duty Officer and Commanding Officer of the training unit before requesting permission to resume firing. A written report of the investigation should be forwarded to the Commanding General, Marine Corps Base (Attn: Assistant Chief of Staff, Training).
- q. When a situation arises that is not specified in these regulations, call Range Control for assistance.
- r. When a battalion conducts multiple live fire exercises over a 3 or more day period into the K-2 Impact Area the battalion S-3 is authorized to check out the required ranges for that period. The battalion S-3 will be required to:
- (1) Personally sign out for and assume all responsibility for all scheduled ranges.
- (2) Obtain safety equipment as specified in Appendix B as required.

- (3) Provide Base Range Control with a list of Range Safety Officers assigned each range as scheduled during the entire period the battalion is using the range.
- (4) Ensure that all Range Safety Officers are thoroughly briefed and comply with the contents of this SOP.
- (5) Ensure that the battalion S-3 and Range Safety Officer establish and maintain communications with Blackburn as required by paragraph 416.

#### 9. RANGE SAFETY OFFICER

- a. Assist the officer in charge of firing.
- b. Be physically present during the exercise and maintain surveillance of, and safety within, the entire surface danger zone.
- b. Be familiar with all pertinent range and safety regulations.

#### 10. POSITION SAFETY OFFICER

- a. Assist the Officer in charge of firing by enforcing all safety regulations at the position to which assigned.
- b. Be physically present at the designated position during the exercise.

## 404. COORDINATION AND CONTROL OF LIVE FIRING

1. TRAINING FACILITIES BRANCH. Coordination of all live firing, and control of high ordinate firing and air space over Camp Lejeune, paradrops of personnel or equipment or other training which may endanger personnel or property is exercised by this Headquarters through the Base Training Facilities Branch. This Branch maintains a Range Control Duty Officer watch to monitor, coordinate, control, and assist units engaged in scheduled exercises.

#### 2. BASE RANGE CONTROL

- a. The Range Control Duty Officer insures coordination and control of training to the extent necessary for safe relationships between organizations using the ground training facilities, water and the air space over Camp Lejeune.
- b. Although units in the field are responsible for the safe conduct of training, the Base Range Control Duty Officer will issue "Cease Fire" orders when conditions which may be

unknown to the training unit endanger personnel or property. The Range Control Duty Officer informs each officer in charge of firing of known conditions that may affect the unit's training during the range check-out briefing.

c. In the event a report of an incident which could involve a claim against the government is received, a cease fire will be called on that range and any adjoining ranges that may interfere with the investigation by the firing unit. The firing unit will report the extent of damage or injury, cause of incident and immediate corrective action to be taken. The Range Control Duty Officer will report this information to the Training Facilities Officer or in his absence, the Assistant Chief of Staff, Training. If the report is received after hours, the Staff Duty Officer will be notified. This report is to be made before permission to resume firing is granted.

## 405. SAFETY EQUIPMENT

- 1. STEEL HELMETS AND BODY ARMOR. The steel helmet and body armor is prescribed for:
- a. All personnel within 50 meters of firing points, lines or areas other than artillery firing battery positions during training or target practice with high explosive ammunition.
- b. All personnel subject to small arms overhead fire, troops within the surface danger zone who are engaged in close air support training exercises/demonstrations, or combined arms exercises in which aircraft, artillery, mortar or rocket fire is used. See reference (a) for restrictions on overhead fire, except for artillery battery positions.
- 2. SCARLET STREAMERS AND RED FLASHING LANTERNS. A scarlet streamer during daylight hours or a red flashing light at night will be displayed whenever firing or other training involving an unusual hazard to non-participants is under taken. If the signal is removed during firing for any reason, training will cease immediately. The signal will be removed at the termination of the day's training. Streamers and red flashing lanterns may be obtained through supply channels, or on temporary loan from the Base Training Facilities Branch.
- 3. AIR PANELS. Aircraft recognition panels, either red or orange colored, will be displayed by artillery, mortar, tank, and anti-tank units while firing during daylight hours. Panels will be emplaced at least five minutes before firing commences and will be removed immediately after firing has been terminated. Panels will be displayed in the shape of an arrow to indicate to pilots the location of the firing

unit and the direction of fire. Temporary removal of panels is not required during fire suspensions lasting one hour or less.

- 4. <u>RED GRENADES AND PYROTECHNICS</u>. The color red is used as an emergency or danger signalling device only.
- 5. <u>BINOCULARS</u>. Binoculars will be used when necessary by forward observers and at all times by air sentries observing airspace and navigable waters.

## 406. WEAPONS AND AMMUNITION

- 1. <u>ALTERATION OF AMMUNITION</u>. The alteration of Class V supplies is not authorized without prior approval from this or higher headquarters.
- 2. TRACER AMMUNITION. Tracer ammunition will not be fired on 15 or 25 yard ranges impacting into earth barriers except on ranges K-317 and K-406.
- 3. <u>BLANK AMMUNITION</u>. Personnel will be instructed on the safety precautions for firing blank ammunition prior to the distribution of such ammunition.
- 4. PHOSPHORUS AND TOXIC AGENTS. No ordnance filled with phosphorus or toxic agents will be deliberately fired or dropped into the Intracoastal Waterway, lakes, bays or other bodies of water in or adjacent to Camp Lejeune.
- 5. FLAT TRAJECTORY/HIGH VELOCITY WEAPONS. Firing of flat trajectory/high velocity weapons above fifteen degrees must conform in all respects to appropriate danger zone diagrams. See reference (a) for restrictions. The proximity of major highways, adjacent ranges or maneuver areas demands that careful consideration be given to the range and impact point of flat trajectory projectiles to insure that they impact within established range fans.
- 6. MAGAZINE AREA. No projectile will be permitted to pass over magazine areas or field ammunition storage areas. Firing will not be permitted if any part of these areas fall within the surface danger zone.
- 7. FIELD STORAGE. Ammunition placed on ranges will be guarded at all times. Precautions will be taken to prevent accidental ignition or detonation by brush fires or by high frequency radio emmissions. Ammunition will not be buried.
  - MALFUNCTIONS AND ACCIDENTS. See reference (m).

## 407. WARNING SIGNS/RANGE GUARDS/AND TOWER GUARDS

- 1. Signs are placed at each range and training facility, and at entrances to each impact area. These signs will not be removed or disturbed in any way, nor shall equipment or material be placed against them. Personnel shall not pass beyond signs marked "HIGH EXPLOSIVE IMPACT AREA," "LIVE FIRING RANGE," "DANGER AREA," or similar signs without clearance from the Base Range Control Officer.
- 2. Range guards or appropriate barriers (with signs) will be posted to cover all normal approaches to hazardous areas. Personnel are cautioned to utilize existing roads and trails, and to comply with instructions posted at entrances to hazardous areas. See Appendix B for required range guard locations.
- 3. Sentries and/or barriers will be placed prior to firing at the commonly used approaches to the impact areas. Personnel entering hazardous areas or live firing ranges by remote or abandoned trails and roads will obtain clearance from the Base Range Control Duty Officer.
- 4. Range guards and tower guards should be competent personnel, preferably NCO's, who are familiar with range procedures and capable of taking immediate, positive action in emergency situations. Tower guards must be familiar with communication procedures and thoroughly briefed on their responsibilities.

## 408. RANGE AND SURVEY CONTROL MARKERS

## 1. RANGE MARKERS

- a. LEFT FLANKS. The left flank of each firing range is marked by a white concrete monument. Left down range markers are 3' by 5' elevated sign boards painted white.
- b. RIGHT FLANKS. The right flank of each firing range is marked by a red concrete monument. Right flank down range markers are elevated 3' by 5' sign boards painted white with a red diamond in the center.
- c. The down range markers are not targets and will not be used as such. The trajectory of all missiles will pass between these markers.
- 2. SURVEY CONTROL MARKERS. See Appendix C.

#### 409. FIRING RESTRICTIONS

1. OVERHEAD AND FLANKING FIRE. Detailed firing precautions for overhead and flanking fire are contained in reference (a). Firing over the heads of personnel by mortars or from moving tanks or other moving vehicles is prohibited.

#### 2. FIRING ACROSS PUBLIC HIGHWAYS

- a. MORTARS. Mortars normally are prohibited from firing across numbered or named highways within Camp Lejeune. Requests for firing from other than normal sites will be handled on an individual basis.
- b. FIELD ARTILLERY. Field artillery (howitzers and guns) may be fired over highways within Camp Lejeune without closing the route. Responsibility for the safety of motorists, as well as others within the trajectory rests primarily with the officer in charge of firing.

#### 3. ARTILLERY AND MORTARS

- a. Artillery and mortar projectiles will be fired to impact within Impact Areas G-10, K-2 and N-1 only.
- b. Normally, gun positions for artillery firing will be located south of State Highway #24 and west of State Highway #172 when impacting into G-10 and K-2, and east of Highway #172 when impacting into N-1. However, this does not preclude a unit firing over Highway #172 provided adequate safety is assured for personnel on this road during firing.
- c. Unless the firing unit requests that the Area "D" portion (safe area) of its surface danger zone, as defined in Marine Corps Order P3570.1, be closed and the request is approved by this Headquarters, artillery fire passing overhead will place no restrictions of the use of terrain lying within the "D" area. See Reference (a).
- d. See Camp Lejeune Special Map, 5th Ed., Sept. 25, 1976 for field firing positions and observation posts.
- e. Weather data used in determining the blast forecast for the Camp Lejeune Area is obtained from the Weather Service Officer, MCAS (Helicopter), New River. This information will be provided by the Base Range Duty Officer prior to all artillery, mortar and CAS (Live) exercises.

#### 4. FIRE AND MANEUVER RANGES

- a. Fire and maneuver exercises will be conducted only on designated ranges. See Appendix B.
- b. Range safety officers will be designated whenever fire and maneuver exercises are conducted.
- c. A range safety officer will be located so that all personnel under his jurisdiction are within his observation at all times. He will be equipped with an appropriate signalling device to effect a cease fire in the event of danger or emergency. Firing exercises conducted during darkness will require strict control measures with appropriate signalling devices utilized.
- d. The officer in charge of firing, the range safety officer and designated assistants will be thoroughly familiar with safety provisions of reference (a), which describes the criteria for flanking fire.
- e. The officer in charge will orient all control personnel during daylight hours prior to engaging in night exercises on fire and maneuver ranges.
- f. During fire and maneuver exercises, an adequate number of controllers will be assigned to insure that every man is positively controlled.
- g. Lanes and limits of fire for each firing point will be marked on each fire and maneuver range. The officer in charge of firing will instruct firing personnel as to limits of fire, direction of fire, and the safety regulations for the range being used.

#### 410. DEMOLITIONS

1. TRAINING. Normally, the use of high explosive demolitions will be confined to designated demolition ranges. However, requests for the use of demolitions in other training areas will receive consideration. See Scheduling Procedures in Section II. Demolitions used to simulate support fires and to provide realism in training, when authorized, will be limited to the use of 1/4 lb. blocks of TNT.

#### 2. DISPOSAL OF UNSERVICEABLE AMMUNITION AND DUDS

- a. Use of ranges for the disposal of dud and/or unserviceable ammunition must have the prior approval of the Range Control Duty Officer. Disposal of dud ammunition will normally be accomplished on the range where the dud is located. Authorized ranges for disposal of dud/unserviceable ammunition are as follows:
  - (1) Impact Area G-10
  - (2) Impact Area K-2
  - (3) Impact Area N-1
  - (4) EOD Site K-326
  - (5) EOD Site G-4A
- b. The maximum explosive limit, per detonation, for destruction of dud/unserviceable ammunition will be the amount authorized by the provisions of paragraph 402.4. Prior to all disposal operations, a special blast focus computation for the site on which the explosives are to be detonated will be requested from the MCAS (H) Weather Service Division. The request will be initiated by EOD to the Range Control Duty Officer. The maximum explosive limit established by reference (p), for ranges G-4A and K-326, will not be exceeded.

## 411. DUDS AND UNSERVICEABLE AMMUNITION

- 1. Duds will be reported immediately to the Range Control Duty Officer.
- 2. The Range Control Duty Officer will request destruction by the Explosive Ordnance Disposal Officer.
- 3. Duds will not be marked, handled, moved, or destroyed except by EOD officers/technicians or personnel under EOD supervision.
- 4. Unused or unserviceable ordnance will not be reported as duds but will be marked "Unused" or "Unserviceable" and returned to the Ammunition Supply Point by the using unit. Misfires and hang-fireswill be cleared by the using unit, all safety pins, bands, clips, etc., replaced and the item declared unserviceable. If all safety devices cannot be replaced, place the item of ordnance in a safe area, notify the Base Range Control Duty Officer, and request EOD assistance.

- 5. Any person residing on this Base having knowledge of the whereabouts of souvenir ammunition, "duds", or abandoned ammunition, will report such facts to the Base Training Facilities Officer or the Base Provost Marshal.
- 6. See reference (m), SOP for ammunition and explosives.

## 412. AIR OPERATIONS

## 1. RESTRICTED AREAS R5306D and R5306E

- a. Restricted Area R-5306D includes the airspace from mean sea level to 18,000 feet within the area from GC 03088 to 942475 to 850365 to 834383 to 770313 to 883254 to 923197 to starting point.
- b. Restricted Area R-5306E includes the airspace from mean sea level to 18,000 feet within the area from GC 834383 to 819403 to 725333 to 770312 to starting point.
- 2. WARNING AREA W-122. That portion of Warning Area W-122 of concern to Camp Lejeune is the airspace over the Atlantic Ocean 30 miles in radius from a point three miles at sea off the Onslow Beach Bridge.
- 3. NEW RIVER CONTROL ZONE. The control zone at Marine Corps Air Station (H), New River is that area within a five (5) statute mile radius of Marine Corps Air Station (H), New River, and within two (2) miles either side of the 046 and 226 degree bearings from the New River Radio Beacon extending from the five (5) mile radius zone to eight (8) miles NE and SW of the Radio Beacon.

# 4. COORDINATION AND CONTROL

## a. <u>Forward Air Controller</u>

- (1) Any air operation involving aircraft live firing or bombing, close air support, paradrops or combined airground exercises requires positive control of aircraft by a forward air controller. The term forward air controller is used synonymously with officer in charge of firing regarding these safety regulations.
- (2) Forward air controllers are required to report to the Range Control Duty Officer for the range check-out briefing normally given to officers in charge of firing.

- (3) Positive communications are required from the forward air controller to Base Range Control. Dual communications are required if live firing or bombing is conducted. See paragraph 416 and paragraph 6 in individual ranges listed in Appendix B.
- (4) When a Forward Air Controller (Airborne) is controlling live drops on BT-3 or G-10, a qualified Forward Air Controller, on the ground, will be in overall control of the exercise, and function as a safety officer. FAC's will report in person to the Range Control Office, Bldg. 1. prior to starting the exercise to check out the range and to receive range check out briefing and required equipment. No telephone or radio check outs will be permitted. FAC's will notify the Base Range Control Duty Officer immediately after the last aircraft has cleared the area so temporary fire suspensions, if any, may be lifted for ground units. The FAC will then proceed to the Range Control Office, Bldg, 1, to return equipment and check the range back in.

#### b. BASE RANGE CONTROL

- (1) This section of Base Training Facilities Branch is responsible for coordinating and controlling training areas to insure safe use of facilities. This section maintains a commissioned officer communications watch during live firing, paradrop and air exercises in the Camp Lejeune complex.
- (2) All fixed wing aircraft will contact Base Range Control (BLACKBURN,  $325.0~\mathrm{UHF}$ ) after being passed off by the TACC
- (3) Rotary wing aircraft penetrating R-5306D and R-5306E will contact Base Range Control (BLACKBURN,  $38.6\,$  FM or  $325.0\,$  UHF).

#### 5. BOMBARDMENT AND AERIAL GUNNERY

- a. Bombing and Target Ranges BT-3 and G-10 are authorized for use as impact areas for aircraft ordnance. See regulations for BT-3 and G-10 in Appendix B.
- b. Impact Area K-2 is not authorized for impacting aircraft ordnance.
- c. Weather data used in determining the blast forecast for the Camp Lejeune area is obtained from the Weather Service Officer MCAS (Helicopter) New River daily. This information will be provided by the Base Range Duty Officer prior to aerial bombardment/gunnery (live) exercises.

- 6. CLOSE AIR SUPPORT (CAS) OPERATIONS. Training will be conducted at MCB, Camp Lejeune, N.C. to train participating FMF units in the effective employment of close air support. Live fire close air support operations will be conducted in accordance with the precedures set forth herein. Simulated CAS conducted in support of amphibious exercises and in support of units maneuvering within the Camp Lejeune complex is not restricted to the procedures set forth in this Agreement, but such simulated CAS operations will be coordinated through Base Range Control in accordance with normal Base Range Control regulations and specific effort will be made to avoid low flying aircraft east of the 96 N-S grid line.
- a. <u>OPERATIONS PROCEDURES</u>. The following procedures will apply in regard to the conduct of all close air support operations involving ordnance delivery at Marine Corps Base Camp Lejeune, North Carolina.
- (1) All fixed wing aircraft will maintain 1500 ft. AGL or above while in transit to or from Camp Lejeune target complex.
- (2) All aircraft will avoid overflight of the Base magazine area directly west of the G-10 Impact area.

## b. GOLF 10 CAS PROCEDURES

- (1) POP UP ATTACKS. Riseley Pier is designated as the IP for pop up attacks on all targets within the G-10 impact area. Attacks will be conducted with a left offset, resulting in a final attack heading of 065 degrees, and a right turn off target to avoid overflying the 96 north-south grid line. On egress, continue the right turn to proceed directly to the Onslow Beach Bridge (Grid 916277). From this point aircraft may exit the area or return to the IP for another attack.
- (2) RABFAC PROCEDURES. RABFAC missions may be flown on an attack heading 225 degrees with left traffic or 065 degrees with right traffic. Minimum altitude is 1500 ft. AGL. General loft attacks are restricted to the 225 degrees attack heading with a maximum of one bomb per run.
- (3) <u>RACETRACK DELIVERY PATTERN</u>. Attack headings of 225 degrees with left turns or 065 degrees with right turns are authorized. Minimum pattern altitude is 500 Ft.

- AGL. After completion of the mission, all aircraft shall exit to the south avoiding BT-3. Patterns will not be extended east of the 96 north-south line.
- (4) F-3 PROCEDURES. The IP for demonstrations conducted at F-3 is the Browns Inlet. Aircraft shall utilize a right offset and a northerly final attack heading with a left turn off target. To exit this area or re-attack, aircraft shall continue the left turn off target until on a southerly heading.

#### c. BT-3 ORDNANCE DELIVERY PROCEDURES

- (1) RACETRACK DELIVERY PATTERN. Aircraft can utilize either a left-hand pattern with an attack heading of 225 degrees MAG, or a right-hand pattern with an attack heading of 045 degrees MAG.
- (2) POP UP ATTACK. During ingress from the IP to the target, the aircraft will depart Riseley Pier on a north-easterly heading so as to parallel the coastline and remain "feet wet." Plan the attack to establish a left offset, right tip-in and right recovery. Minimum altitude after departing the IP will be 500 ft. AGL.

## 7. LANDING AND PARADROP ZONES

a. Tactical Landing Zones. TLZ's must be formally scheduled. Unscheduled helicopter flights into TLZ's may be made only after the pilot receives permission from the Base Range Control Duty Officer. See Section II for scheduling procedures. See Appendix D for names and locations of TLZ's.

## b. Administrative Landing Zones

- (1) ALZ's are used for administrative support only. Tactical exercises involving the use of helicopters for personnal or cargo movement will not be conducted from ALZ's without permission from this Headquarters.
- (2) Formal scheduling is not required; however, contact must be made with the Range Control Duty Officer prior to the use of an ALZ to ensure aircraft safety and ALZ availability.
  - (3) See Appendix D for ALZ designations and locations.

- c. <u>Paradrop Zones</u>. Paradrop exercises are authorized within designated tactical landing zones. See Appendix D for names and locations. See Section II for scheduling procedures.
- d. Landing Zone and Drop Zone Control. Whenever a TLZ is being used for multiple helo lifts or parachute operations a LZ/DZ control will be established in the zone and will operate within the following guidelines:
- (1) Check-in with "Blackburn" at the commencement of operations and passively monitor "Blackburn" throughout the operation.
- (2) Inform "Blackburn" of any periods when aircraft are not on station and whenever operations recommence.
  - (3) Inform "Blackburn" when operations are complete.

## 8. HELICOPTER EXTERNAL LOADS

- a. Monitor range control net on 38.6 VHF Blackburn or 325.0 UHF.
- b. Contact Range Control Duty Officer immediately in the event cargo is dropped accidentally, giving coordinates and type of cargo.
  - c. External lifts are not authorized in the following areas:
    - (1) Administrative areas.
- (2) Administrative landing zones (except ALZ 15, Camp Geiger and ALZ-22).
  - (3) TLZ Sparrow.

## 9. AIRCRAFT MINIMUM ALTITUDES

- a. Aircraft required to pass over the following areas will maintain a minimum altitude of 500 feet (AGL) at ground level.
  - (1) Base Magazine.
  - (2) Field ammunition storage points.
- b. Overflights of K-2, G-10 and N-1 impact areas are prohibited during live firing exercises, unless the aircraft is actively involved in the firing exercises.

## 10. AERIAL OBSERVATION SCHOOL

- a. Aerial observers conducting field artillery fire from aircraft into the G-10 impact area may continue to utilize the G-10 impact area while tanks are in the buffer zone under the following conditions:
- (1) That the aerial observer maintains constant surveillance of the tanks.
- (2) That the aerial observer does not fire at targets closer than 1500 meters from the interior edge of that section of the buffer zone through which the tanks are crossing.
- (3) That the aerial observer calls in a checkfire to the battery or batteries for which he is observing at any time the tanks come within 500 meters of the gun-target line.
- b. When aerial observers are conducting field artillery fire from aircraft they are required to have Range Safety Officer on OP-2 or OP-5.
- c. When the AO School is conducting exercises and/or training on BT-3, Bear Creek and Onslow North Tower will be manned. The officer controlling the exercise will check out/in BT-3 range prior to and after use of through the Range Control Officer, Bldg. 1. Upon termination of the exercise, the controlling officer will return all equipment to the Range Control Duty Officer, Bldg.1, and sign the range back in, within 24 hours.

## 11. ARTILLERY

- a. ICM (Firecracker) rounds may be fired into the G-10 impact area only when the firing battery does not fire over any roads or tank trails which are open to traffic.
- b. ICM rounds may be fired from LZ Penguin only when G-8 and G-9 are not occupied by personnel and when road guards are placed on the road (tank trail) leading through the LZ Penguin area at least 800 meters on either side of the battery position in order to prevent any traffic or personnel from crossing in front of the battery position.
- 12. COMMUNICATIONS. All helicopters and those fixed wing aircraft with FM capability will monitor the BLACKBURN net (38.60 MHz) at all times when airborne.

#### 413. NAVIGABLE WATERS

1. ATLANTIC COAST SECTOR DANGER AREA See reference (i).

- a. This area includes the waters of the Atlantic Ocean within a sector bounded on the north by a line bearing 105 degrees from a point at GS 9530, on the east and south by an arc of a circle having a radius of 25,000 yards centered at GC 918276, on the west by a line bearing 205 degrees from GC 881247, and on the northwest by the shore line within the danger area as defined by reference (o).
- b. When firing or maneuvering in or over this sector during daylight hours scarlet streamers must be displayed on the Onslow Beach North Tower (933288) one hour prior to firing. Display red flashing lights instead of scarlet streamers during the hours between sunset and sunrise. Warning signals will be removed at the termination of the exercise.
- 2. <u>NEW RIVER DANGER AREAS</u>. Live firing ranges include all waters from the high water line within the below eight sectors as described in reference (n).
  - a. Trap Bay Sector.
  - b. Courthouse Bay Sector.
  - c. Stone Bay Sector.
  - d. Stone Creek Sector.
  - e. Grey Point Sector.
  - f. Farnell Bay Sector.
  - g. Morgan Bay Sector.
  - h. Jacksonville Sector.

## 3. INTRACOASTAL WATERWAY REGULATIONS

- a. When firing into the N-l Impact Area, range guards must be posted at Bear Creek Tower and Onslow Beach North Tower to warn of boat traffic in the Intracoastal Waterway.
- b. Water traffic in the Intracoastal Waterway normally will not be interrupted. Firing will cease to allow vessels to transit the waterway, unless a temporary interruption or closure is in effect not to exceed one (1) hour.
- c. When temporary interruptions or closures are in effect, firing units may be required to assist in manning guard vessels.

## 414. HAZARDOUS AREAS

#### 1. SURFACE DANGER ZONE

a. The surface danger zone of each firing range is a hazardous area during all live firing exercises. Entry into

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these areas by personnel normally is prohibited during firing. Care must be exercised to insure that no one advances in front of the firing line or line of advancing troops on fire and maneuver ranges.

b. There are exceptions to this regulation, including certain "safe areas" within the surface danger zone, as defined in reference (a). Another exception is the positioning of a range guard in defilade on range J-2 (See Appendix B).

## 2. HIGH EXPLOSIVE IMPACT AREAS

- a. Permission to enter a high explosive impact area must be obtained from the Base Range Control Officer, and must be accompanied by EOD personnel. Overlay of Maneuver Areas, Impact Areas and Ranges. See reference (i).
- b. The following are designated as high explosive impact areas.
- (1) G-10 IMPACT AREA. That area bounded by GC 943361 to 941336 to 920341 to 907336 to 896361 to 943361.
- (2) N-1 IMPACT AREA. Extends east from the junction of Gridline 94 and Onslow Beach along the beach line to Bear Creek Inlet, and then along Bear Creek to a point 400 yards north of the Intracoastal Waterway, and thence on a line 400 yards north of a parallel to the Intracoastal Waterway to Gridline 94. Aircraft delivered ordnance will impact on Brown's Island only.
- (3) <u>K-2 IMPACT AREA.</u> That area bounded by GC 782332 to 794346, east to New River, south and west along the shoreline of New River and Stone Bay to 782332.
- (4) <u>HAND GRENADES RANGES</u>. Before live hand grenade training begins, all personnel must be proficient in the safety precautions for handling, throwing, and disposing of live grenades and must have successfully completed grenade training with practice grenades. When a grenade fails to function, the officer in charge of firing will:
  - (a) Cease all grenade throwing
- (b) Ensure all personnel remain under cover until dud has been cleared by EOD personnel.
- (c) Notify Range Control Duty Officer of the dud hand grenade and request EOD assistance.
- (d) Standby to render assistance to EOD personnel as required.
- (e) Request permission from the Range Control Duty Officer to continue throwing hand grenades after dud has been cleared.

- (f) Duds will not be marked, handled, moved or destroyed except by EOD officers/technicians or personnel under EOD supervision. A 30 minute wait period will be observed from the time of the report by Range Control prior to clearing a dud grenade.
- (g) No live hand grenades will be handled or thrown after one hour prior to sunset.
- (h) No down range movement on any grenade range is authorized unless accompanied by EOD personnel.

### 3. COMMON IMPACT AREAS

- a. The surface danger zones of many ranges overlap, creating a common impact area, such as the F-Range and K-Range complexes.
- b. Care must be exercised, particularly when other ranges sharing the common impact areas are being used, to insure that the area is safe before moving down range. See "Known Interference," paragraph 7 of each individual range in Appendix B.
- 4. MINEFIELD SITE. That portion of the area enclosed by a line connecting Grid Coordinates 936310 to 939306 to 943309 to 943313 is a hazardous area. No person will enter the confines of the outer fence. See reference (c).

## 5. CONTAMINANT OR HAZARDOUS WASTE SITE (CHEMICAL DUMP)

- a. A site for the disposal of contaminants and hazardous waste is located in grid square 7728. This site is commonly referred to as a "Chemical Dump." and is marked with appropriate warning signs.
- b. Entry into this site is prohibited without specific authorization of the Base Safety Director. See reference (d).

# 415. FOREST FIRE DANGER SEVERITY RATINGS

- 1. Fire danger classes, and their effect on the use of Training Areas/Ranges and Facilities, are listed below.
- a. Classes I and II: No restrictions on authorized ranges. Normal safety precautions will be followed. A fire fighting detail composed of those taking part in the training will be organized for the purpose of combating any grass or brush fires which may occur.
- b. Classes III: Fire fighting details will be doubled and kept on standby during the entire period of training. The use of any ranges and any devices will be at the discretion of the officer in charge of the using unit. Extreme caution shall be exercised in the use of all pyrotechnics.

- c. Class IV: The use of all explosives and pyrotechnics is restricted to the G-10, N-1 and K-2 impact areas. Authorized aerial ordnance (except aircraft flares) may be used on range BT-3.
- d. Classes IV and V: Only range BT-3 and the N-1 impact area may be used for authorized aerial ordnance except aircraft flares.
- e. <u>Use of Pyrotechnics in Off Base Training Areas</u>. Pyrotechnics are not authorized for use in off base training areas when the forest fire severity rating is greater than Class II.
- 2. No open burning will be done without permission of the Base Forester, or the Base Fire Department, or as authorized and required for training purposes.
- 3. Smoking: When Fire Danger Class IV is reached, there will be no smoking in training areas unless the unit commander designates a spot where personnel may smoke. It will be the responsibility of this officer to assure himself that all smoking materials are put out in metal containers.
- 4. See reference (1), BO 11320.1 (Fire Protection Plan).

## 416. COMMUNICATION CONTROL

## 1. GENERAL

- a. Prior to commencing live firing, close air support operations, helo lifts of personnel or equipment, or demolitions training, the Officer in Charge of firing will establish communications with the Range Control Duty Officer. He will maintain communication with Base Range Control by MAG line and/or radio, as prescribed in Appendix B. Permission to begin the exercise will not be authorized until positive communications have been established.
- b. <u>CAUTION</u>. If communications with Range Control fails, units will suspend operations immediately. The exercise will not resume until communications have been re-established, and authorization to resume operations is obtained from the Range Control Duty Officer.
- c. <u>DUAL COMMUNICATIONS REQUIREMENTS</u>. All units firing weapons with projectiles impacting within the N-l Impact Area as directed in Appendix B, or with maximum ordinates exceeding 150 feet, will maintain dual communications, radio and wire (dial telephone) between the actual firing position and Base Range Control. Should one means fail, the officer in charge of firing will notify Range Control at once by using the other communications media.

10

d. Helicopters must monitor Base Range Control net (BLACKBURN, 38.6 VHF or 325.0 UHF) when penetrating R5306D or R5306E.

## 2. UNIT RESPONSIBILITIES

- a. The responsibility for proper communication with Base Range Control rests with the training unit.
- b. Units will verify communications with Base Range Control at regular intervals, at least every half hour (30 min) throughout the firing period. The Base Range Control Duty Officer will be notified immediately upon securing from firing.
- c. See Appendix B for communications requirements for each range.

### 3. COMMUNICATIONS

#### a. MAG LINES

- (1) Many training facilities have a telephone line terminal which leads into the Base Control.
- (2) All units are cautioned to inspect both telephone and terminal connections prior to requesting telephone service.
- (3) Each MAG line is clearly labeled with a sign showing the proper terminals to be used.
- (4) Emergency Procedures. Training units are authorized to tap in at any MAG line terminal for emergency communications.

# b. <u>Dial Telephone System</u>

- (1) Dial telephones located at certain ranges and facilities (See Appendix B) can reach any other number in the Camp Lejeune complex.
- (2) To reach Base Range Control, dial any of the following numbers in the sequence listed:
  - (a) Primary 3064 (Range Control Duty Officer)
  - (b) Alternate 5803
  - (c) Emergency 5803/3064 (Scheduling NCO)
  - (d) Emergency 5803/3064/3920 (Training Facilities Branch)

#### 4. RADIO COMMUNICATIONS

- a. Authorized call sign and frequencies will be used. Range Control call sign is "BLACKBURN", the frequencies are 38.6 VHF and 325.0 UHF.
- b. Units required to maintain dual communications will enter the Range Control radio net in order to establish the primary means of communication.
- c. The officer in charge of firing will use his range number when calling the Range Control Duty Officer, as his call sign.
- d. In the event of failure of the Range Control radio net while a unit is engaged in firing, the officer in charge of firing will:
- (1) Contact Base Range Control by telephone and report the radio failure.
- (2) Maintain telephone communication with Range Control while the radio is out of action.
- (3) If telephone contact with Range Control cannot be established immediately after radio failure, firing will be suspended. No firing will be permitted until communications have been re-established and the Range Control Duty Officer has authorized the resumption of firing.

### 5. AIR/GROUND COMMUNICATIONS

- a. The ground control unit for air/ground training or paradrop exercises will establish and maintain dual communications with Base Range Control.
- b. In the event trouble is experienced in communications equipment, the officer in charge of firing or forward air controller may be permitted to commence training if one means of communication, either wire or radio has been established, provided on-site conditions indicate this means will not be interrupted.
- c. If dual communications cannot be established within thirty minutes after permission has been granted to commence the exercise, the Range Control Duty Officer may suspend the training. Such suspension will remain in effect until dual communications have been established.

- d. If one means of communications fails while the training is in progress, but communications through the alternate media remains effective, the training may continue.
- e. Should both wire and radio communications to Range Control fail, the exercise will be suspended immediately by the officer in charge of firing. All aircraft will be directed to clear the area until authorized to resume operations.
- f. MAG lines are positioned at or within walking distance of each TLZ for maximum assistance to training units in establishing communications with Base Range Control.
- g. See paragraph 412 concerning air operations and paragraph 6 of Appendix B regarding live firing in the BT-3 complex (Brown's Island, N-1 Impact Area).

#### 417. MISCELLANEOUS

#### 1. BLANK FIRING AND PYROTECHNICS

- a. All maneuver areas and many live fire ranges may be used for non-live firing exercises utilizing blank ammunition and non-injurious pyrotechnics unless otherwise prohibited as an exclusion or hazardous area. Blanks and pyrotechnics will not be buried.
- b. Blanks and pyrotechnics, with the exception of red signals, may be used without permission from this Headquarters in all maneuver areas except:
  - (1) Areas C, DA and DC
- (2) Sub-areas adjacent to public quarters or trailer parks.
  - (3) Near Base Schools.
- (4) Areas specifically designated as exclusion, limited or training areas in a restricted category. See paragraph 204.2.
  - (5) Heavily populated areas.
- c. Red grenades and pyrotechnics are used as an emergency or danger signalling device and will not be used for training unless specifically authorized by the Assistant Chief of Staff, Training.
- 2. LIVE FIRE IN NON-DESIGNATED AREAS. Live fire exercises normally must be conducted on designated ranges listed in

Appendix B. In certain instances, permission may be granted to conduct live fire exercises or demonstrations in non-designated areas. See Section II for scheduling procedures.

## 3. USE OF NBC AGENTS

- a. The use of smoke, flame, CS and standard agent simulants is authorized for training purposes at the discretion of the unit commander and subject to the restrictions contained in these regulations. No other agents may be used.
- b. Standard simulants and munition available for training are: (See reference (q)).
  - (1) Simulant Chemical Agent PEG 200
  - (2) Training Set, Chemical Agent M72A1/M72A2
  - (3) Blister Agent Simulant, Molasses Resedium
  - (4) Training ammunition.
  - (5) Atomic explosion simulator, DVC 39-1.
  - (6) Atomic Simulator locally fabricated set (FM 30-101).
  - (7) Artillery Simulator, M110.
  - c. Specific instructions are as follows:
- (1) In all cases, inform Base Training Facilities of intended usage of NBC agents.
- (2) The same cover and safety limits used during training with high explosive ammunition are required for protection against fragments and ricochets of chemical ammunition.
- (3) Chemical agents will be employed only with the advice of a commissioned officer trained in the field behavior of such agents.
- (4) CS will not be used until troops have completed the gas chamber exercise outlined in this order.
- (5) Individuals having a P/3 profile because of respiratory or cardiac conditions will not be exposed to CS until examined by a medical officer who will determine whether or not the individual should be excused.

- (6) Personnel filling or utilizing CS-1 munitions in bulk must be trained in care and handling of dispersers and bulk micro pulverized CS-1 and be equipped with rubber gloves, protective mask and hood, and rubber apron. Any residual agent should be emptied into a hole four feet deep and covered with earth; water used in cleaning equipment should be drained into a pit and covered with earth (TM 3-1040-215-12 refers). See reference (d) concerning disposal of contaminants or hazardous waste.
- (7) In the event of gross accidental contamination of an individual with CS-1 particles, the body should be flushed with a copious amount of cool water, a five percent solution of sodium bisulfate (except in and around eyes) then used to remove the remainder, and finally the body again rinsed with water.
- (8) No agent will be used in training or field exercises where it may drift downwind into civilian communities or areas occupied by nonparticipating military units or installations. It is recommended that CS be used no closer than 250 meters from vehicular traveled roads and highways.
- (9) Because of the persistent nature of micro pulverized CS-1, care must be exercised in not contaminating areas and in protection of wildlife from effects.
- (10) Smoke producing material will not be released when the wind velocity is greater than 20 miles per hour.
- (11) All personnel undergoing training at the NBC Proficiency Range will have the M6 series hood and eyepiece outserts attached to the M17 series field protective mask.

# SECTION V SMALL ARMS REMOTE TARGETED SYSTEM (SARTS)

501. RANGES. The following ranges have been specifically configured for the SARTS target mechanism: F-4, K-402 and K-407. Any range, however, may be configured for SARTS target mechanisms with adequate advance notice. F-4 has electrical targets that may be augmented with SARTS target mechanisms.

## 502. SCHEDULING PROCEDURES

- 1. Ranges utilizing the SARTS target mechanisms will be scheduled in accordance with the procedures contained in paragraph 201.2 of this SOP.
- 2. Using units must specify in their requests that they desire the SARTS target mechanisms.
- 3. The normal SARTS target mechanism configuration for the particular range requested will be used unless otherwise specified by the requesting unit.
- 4. If a designated SARTS range is desired without reconfiguration it must be scheduled at least five working days in advance of the date desired.
- If reconfiguration of an existing SARTS range or a new range is desired it must be scheduled at least 15 working days prior to desired date of use. The request should contain the type of training which will be done, the scheme of maneuver, and the weapon to be fired. The scheduling NCO will notify the Range Maintenance Officer immediately when reconfiguration of a range is requested. Upon approval of the request for reconfiguration of an existing range or a new range, the requesting unit's Range Safety Officer will meet with the Training Facilities Maintenance Officer (ext. 5211/3542) at least ten working days prior to the scheduled range date. This meeting will be used to establish a time when the installation of new pits may be accomplished. will also enable the using unit's RSO and range maintenance personnel to have an on-site range inspection of the desired range and to fully discuss any problems which may exist.
- 6. Using units must verify any SARTS range commitment within three working days prior to the scheduled range use date. Time, date, range requested and provision of a working party must be confirmed. If range is not physically checked out from range control, by 1600 of the last working day prior to day of usage, the range will be automatically cancelled without notice. This requirement is necessary due to the time, equipment and men required to set up a SARTS range facility

- 7. The Range Control Office will be responsible for keeping the Range Maintenance Officer informed of all SARTS range scheduling.
- 8. The SARTS target mechanism configuration on a range will NOT be altered without the express permission of the Range Maintenance Officer.

# 503. USING UNITS RESPONSIBILITIES

- 1. The using unit's Range Safety Officer will check out the SARTS range from the Range Control Officer at Bldg. 1 following normal checkout procedures established in paragraph 403.8. The Range Control Officer will brief the RSO as to range safety, the responsibility of an RSO, the functions of the range operator and range control procedures. The Range Control Officer will also inform the RSO that he will be required to inspect the range and sign a DD 1348 provided by the range operator for SARTS mechanisms on his range. Upon completion of firing, the range operator will inspect the SARTS mechanisms and, if found satisfactory, will resign for them. If the SARTS target mechanisms are damaged, missing, etc. the range operator will immediately notify the Range Control Officer and the Range Maintenance Officer.
- 2. In the event of night firing or a usage period exceeding eight hours, the using unit will provide physical security for the SARTS target mechanisms when not in use.
- 3. Installation of the SARTS target mechanisms will be accomplished utilizing the Range Maintenance range operator and a working party from the using unit.
- 4. The using unit will provide a five-man working party on the range site two hours prior to its scheduled use. A normal range installation unit would consist of the following:
  - a. One NCO.
  - b. Four LCPL's or below.

This working party will be responsible for accomplishing the following:

- (1) Unloading the target devices from their carrier and installing them in the target pits under the supervision of the Range Maintenance range operator.
- (2) Performing any minor barrier work on the protective pit that the range operator deems necessary to fully protect the SARTS target mechanisms.

- 5. The using unit will be required to provide a ten-man working party to the Range Maintenance Section to assist in constructing target pits on a new range or a range that must be reconfigured. This working party will be made available at least two working days in advance of the scheduled firing date.
- 6. Pits dug and used on a new range or a range that must be reconfigured will be filled in by the using unit upon completion of firing and prior to being released from responsibility of the range.
- 7. Upon completion of firing, and after being released by the range operator, the RSO will immediately check the range back in at the Range Control Office following procedures established in paragraph 403.8 of this SOP.
- 8. Using units desiring augmentation of existing electrical targets with SARTS target mechanisms on ranges such as L-5 and F-4 should request this in the same manner as a range reconfiguration.

# 504. RANGE MAINTENANCE RESPONSIBILITIES

- 1. Meet on site with the unit's Range Safety Officer to discuss reconfiguration of ranges or new ranges where SARTS target mechanisms have been requested. Any potential problem areas will also be discussed.
- 2. Provide the range operator who is responsible for:
- a. Insuring that all required SARTS target mechanisms and equipment are operable and in position prior to the scheduled time that the using unit is to commence firing/training.
  - b. Briefing the unit's Range Safety Officer on:
    - (1) Range safety to include any dangerous obstacles.
- (2) SARTS target mechanisms equipment use and safety precautions.
  - (3) Emergency safety procedures.
- (4) Discuss with the RSO the actuation of the targets in the scheme of maneuver.

- c. Supervising SARTS target mechanism installation and any repairs needed on the target pits.
- d. Insuring that SARTS target mechanism pits are adequate to protect devices.
- e. Accompanying the unit's Range Safety Officer on an inspection of the SARTS range facility and obtaining from the RSO a signed DD 1348. The range operator will retain a copy.
- f. Notifying the Range Control Officer and Range Maintenance Officer of any dispute, disagreement or controversy.
- g. The Range Maintenance range operator will be the ONLY operator of SARTS target mechanisms.
- h. Upon completion of the firing exercises the range operator and RSO will inspect the condition of all SARTS target mechanisms and the range site for proper police. If there are no discrepancies, the range operator will return the copy of the DD 1348 to the RSO. The DD 1348 will not be returned to the RSO if SARTS target mechanisms are damaged, missing, etc. The range operator will notify the Range Maintenance Officer and the Range Control Officer immediately if any controversy should arise, and no one will leave the range until the situation is resolved.
- i. The Range Maintenance Section will maintain the protective pits that are permanent in nature for all SARTS ranges.

# 505. RETALIATORY DEVICES

- 1. Marine Corps Base is responsible for procurement of and funding for the blasting caps that are required for the retaliatory devices associated with the SARTS target mechanisms.
- 2. Only Number Six blasting caps may be used in conjunction with the retaliatory device. The standard USMC blasting caps will NOT be used with the retaliatory device.
- 3. The Range Maintenance Section will be responsible for installing the caps and operating the retaliatory device. Only authorized personnel are permitted to install caps with the retaliatory devices.

- 4. The Range Maintenance Officer/SNCO will notify the electronics technician prior to employment of the retaliatory device to insure that no maintenance work on the SARTS target system is being performed while the retaliatory device is being used. The Range Maintenance Officer/SNCO will also check with the scheduling NCO to insure that no adjacent ranges are using demolitions at the same time the retaliatory devices will be used.
- 5. The retaliatory device will not be installed and/or used during an electrical storm. The range operator will make this decision based on information obtained from the Range Maintenance Officer and the Range Control Officer.

## 506. DEMOLITION

- 1. Demolitions may be fired by use of SARTS retaliatory device on special request as per paragraph 502.
- 2. Using units must provide demolitions and combat engineer personnel to place explosives in order to fire electrically.
- 3. Range Maintenance Personnel will not be responsible for the placement of demolitions/explosives.

# APPENDIX A GLOSSARY OF TERMS

Administrative Area - An area assigned for administrative and logistical functions, such as housing, troop billets, offices, storage and maintenance areas. Normally, field training and live firing are not conducted in administrative areas.

Administrative Landing Zone (ALZ) - A predesignated, numbered helicopter landing zone which provides major commands ready access to air transportation and medical evacuation. Administrative landing zones are not normally authorized for training exercises.

<u>Air Sentry</u> - An individual designated by the officer in charge of firing to maintain surveillance of an assigned sector of airspace to warn of the approach of aircraft. In some cases air sentries also observe navigable waters for the approach of vessels.

Approach and Retirement Route - A predesignated air traffic lane for helicopters, generally used in air or air/ground training exercises. These routes may be utilized by the Base Range Control Duty Officer or a Helicopter Direction Center to route helicopter traffic around potentially dangerous areas.

Base - Marine Corps Base, Camp Lejeune.

Base Range Control - The section of Base Training Facilities Branch responsible for coordinating and controlling training areas to insure safe use of facilities. The section maintains a commissioned officer communications watch during live firing, paradrop and air exercises in the Camp Lejeune complex.

Base Range Control Duty Officer - The representative of the Base Range Control Officer on duty at Bldg. 1 during live firing, paradrop and air exercises.

Base Training Facilities Officer - The officer under the cognizance of the Base Assistant Chief of Staff, Training, who exercises control over the use of all Base Training Facilities to insure coordination and adherence to safety regulations. The Base Training Facilities Officer serves as the Base Range Control Officer.

Base Training Facilities Branch - The Base Agency responsible for scheduling and assigning of training facilities, air and seaspace, the maintenance and safe use of training facilities under its cognizance.

"BLACKBURN" - The communications call sign for Base Range Control (Radio: 38.6 VHF or 325.0 UHF; telephone 3064.)

Blast Focus Forecast - The refraction patterns of shock waves through the earth's atmosphere.

Buffer Zone - An area approximately 1,000 meters wide surrounding the high explosive impact areas, intended to provide
an additional safety factor beyond that required by reference
(a). Some tracked vehicle trails traverse portions of buffer zone.
Extreme caution must be exercised to insure tracked vehicles
are not in the buffer zone when rounds are impacting in the
impact area adjacent to the buffer zone. Except for the
authorized track vehicle trails in the buffer zones, entry
into a Buffer Zone is permitted only for emergency reasons
and with the express permission of this Headquarters. (Base
Range Control Duty Officer).

Closure (of Intracoastal Waterway) - An authorized interruption of vessel traffic on the Intracoastal Waterway requiring advance permission of the U.S. Army District Corps of Engineer and publication of a Notice to Mariners.

Coast Pilot 4 - Regulations concerning Federally controlled waterways from Cape Henry to Key West, published by the U.S. Department of Commerce (Coast and Geodetic Survey) and which delegates to the Commanding General, Marine Corps Base, Camp Lejeune powers as enforcing agency for waters in the "New River, N.C. and vicinity; Marine Corps Firing Ranges."

Common Impact Area - The impact area created when the surface danger zones of concurrently used ranges overlap.

Control Zone - An airspace of defined dimensions designated by appropriate authority, usually the FAA. The zone extends upward from the ground or water and includes one or more airdromes, within which rules apply for the protection of air traffic.

<u>Cookoff</u> - The detonation of any or all of the explosive components of a round chambered in a hot weapon, caused by the heat of the weapon.

<u>Danger Area</u> - A sea or water space in which hazards may exist to mariners. The New River and Atlantic Coast Sectors areas are designated by Coast Pilot 4 as Danger Areas due to military training exercises conducted at Camp Lejeune.

<u>Demolitions</u> - Explosive charges, simulated or real, designed to add realism to training, or to destroy material or unserviceable ammunition.

<u>Drop Zone</u> - A Tactical Landing Zone in which personnel or cargo paradrops are authorized.

<u>Dual Communications</u> - The establishing of two means of communications, usually radio backed up by telephone (either radio, MAG line or dial telephone), and required by the nature of the training exercise.

<u>Dud</u> - Ammunition of any caliber or weight which has been fired, placed, dropped or thrown, but which fails to function in the manner intended.

Exclusion Area - Areas in which training is not authorized.  $\overline{\text{BIdg. SH-8}}$  and Magazines SHE-12 and SHE-13 are designated as Exclusion Areas and the fenced in areas surrounding them are designated as Limited Areas.

Field Firing Position - See "Gun Position."

Field Training Facilities - Field training facilities are those areas designated for a specific type of training, normally not requiring the use of live ordnance. For example: Dry net training facilities and Combat Town are classified as field training facilities. Live firing will not be conducted in the immediate area of a field training facility without specific authorization.

Fire and Maneuver Range - Ranges on which troop movement and live firing may be conducted simultaneously. Simultaneous fire and movement may not be conducted except on ranges specifically designated.

Firing Area - See "Firing Point."

Firing Line - See "Firing Point."

Firing Notice - See "Weekly Firing Notice."

Firing Point - The location from which a weapon is fired at a target or impact area.

<u>Flanking Fire</u> - Live fire delivered against the flank of a target.

Flat Trajectory/High Velocity Weapons - Recoilless rifles, tank guns, artillery when firing line of sight and machine guns.

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Food Plots - Food plots are prominently marked, cultivated sites positioned within various maneuver areas, maintained through joint efforts with the State of North Carolina, and intended to assist in the preservation of natural wildlife. Accordingly, units engaged in field training exercise will remain clear of established plots.

Forest Fire Danger Conditions - A restriction placed on training exercises due to the possibility of forest fire caused by humidity, wind velocity and temperature.

Forward Air Controller (FAC) - The officer designated to serve in the same capacity as an officer in charge of firing, but specifically for air operations.

FAC (A) - Forward Air Controller, Airborne.

<u>Gun Position</u> - Pre-selected positions from which artillery and mortars engage in high ordinate firing exercises. Permanent gun positions have been pre-selected in the Camp Lejeune complex. Units may under certain circumstances, select non-designated areas for use as gun positions.

Hangfire - A delay in the functioning of the propelling charge's explosive train. The duration of such delay is unpredictable and may extend from a split second to several minutes.

Hazardous Area - Areas made dangerous to personnel by live firing, existence of duds, or placing of mines or dangerous contaminants, and in which specific authorization from competent authority must be obtained before entering.

<u>High Ordinate Firing</u> - Firing of projectiles above an altitude of 500 feet, and requiring publication of Notice to Airmen (NOTAM'S).

High Explosive Impact Area - Impact areas specifically designated for impacting of all types of ordnance, such as G-10, K-2 and N-1 high explosive impact areas. These areas must not be confused with the danger area forward of live firing activity as defined in Reference (a).

Impact Area - The area or areas into which the fire of weapons is direct. It usually extends from the rear boundary of the target line or area to the maximum range of the weapon and ammunition fired. It is bounded on the flanks by the right and left limits of fire extablished in the surface danger area diagram for each type weapon.

<u>Known Interference</u> - Conditions affecting the safe conduct of live firing or training exercises.

Land Line - A metallic line between two telephones or between telephones and a switchboard.

<u>Live Fire</u> - Firing of weapons, demolitions or flame by shooting, placing, dropping or throwing a dangerous projectile or substance. Firing of some types of practice ammunition is considered live fire, such as the Grenade, 40mm, practice.

<u>Limited Area</u> - Bldg. SH-8 and Magazines SHE-12 and SHE-13 are designated as Exclusion Areas and the fenced in areas surrounding them are designated as Limited Areas.

<u>Live Fire Range</u> - A range on which specific authorization must be obtained to conduct live fire exercises, including the use of some types of practice ammunition.

Magneto Line (MAG Line) - A line from which field telephone equipment is operated from the field to a main switchboard in order to obtain dial capability.

Maneuver Area - Areas designated alphabetically in which field training exercises using blank ammunition, certain pyrotechnics and limited demolitions may be conducted with authorization. Live fire ranges and tactical landing zones normally are located within maneuver areas.

 $\underline{\text{Misfire}}$  - A complete failure to fire which may be caused by a faulty firing mechanism or a defective element in the propelling charge.

Navigable Waters - Waters upon which navigation of vessels is possible, but not always permissible. Navigable waters in the Camp Lejeune complex are governed by regulations in Coast Pilot 4 which delineates areas in which vessels may or may not navigate and under what circumstances.

NBC - Nuclear, Biological, Chemical

NBC Agents - Devices, biological agents and chemicals which may cause damage, incapacity, injury, sickness and/or death.

NBC Simulants - Devices, chemicals or agents used as a training medium to reproduce the general effects of active NBC weapons without producing a toxic effect.

Notice to Airmen (NOTAM) - A message to aircraft pilots in a specific area warning of airspace restrictions caused by dangerous conditions such as high ordinate firing or scheduled air training exercises.

Notices to Mariners - A publication to mariners and vessels warning of conditions dangerous to navigation such as live firing or amphibious exercises.

Observation Post - A point from which impacting projectiles may be observed. The location of permanent observation posts at Camp Lejeune are contained in Appendix D.

Officer in Charge of Firing - The officers designated by the Commanding Officer of the training unit who assumes responsibility for all aspects of live fire, paradrop or air exercises. This term is used synonymously with forward air controller.

Overhead Fire - The firing of projectiles over the heads of personnel, or over areas in which the presence of personnel is suspected, either in training, bivouac or garrison.

<u>Paradrop</u> - The controlled aerial delivery by parachute of personnel or equipment.

Plant Account - A list of facilities, including training facilities, each of which has a monetary value and an inference of fiscal and maintenance responsibility.

Position Safety Officer - An officer assigned by the officer in charge to enforce all safety measures at a specific firing point, line or area.

<u>Practice Range</u> - A range upon which only specified types of practice ammunition may be fired.

Prohibited Area - An area in which training normally is not authorized.

<u>Pyrotechnic</u> - Non-injurious smoke or signals, either flares or grenades. White phosphorus is not considered a pyrotechnic for the purposes of this SOP.

Race Course - "M" Maneuver Areas.

Range - A training facility designated for live fire or practice firing of weapons, demolitions or flame, or fire and maneuver exercises.

Range Control - See "Base Range Control".

Range Control Duty Officer - See "Base Range Control Duty Officer."

Range Guard - An individual designated to maintain surveillance over an assigned locale to prohibit unauthorized entry into the surface danger area and to give the alarm in the event he detects such entry.

Range Operator - A member of Training Facilities Branch know-ledgeable in a specific range and its equipment, assigned to assist the officer in charge of firing.

Range Safety Officer - An officer assigned by the officer in charge of firing to assist in enforcing all safety measures within the air/surface danger area.

Restricted Area - An airspace established by the Federal Aviation Agency in which there is a hazard, usually invisible, to flight. Examples are aerial gunnery and bombardment, guided missile, artillery, or other type firing. Permission must be granted to a flight before it may traverse a restricted area during periods when the area is in use. Restricted areas are effective during various times between various altitudes. Details as to boundaries, altitudes, time of use and controlling agencies are published by the Federal Aviation Agency and may also be found on Radio Facility Charts and Aeronautical Charts. Changes in a restricted area are published in Notices to Airmen (NOTAM's) and in the "Airman's Guide."

Restricted Category - A training area in a restricted category is one in which controls are imposed over troop and vehicle movements due to the proximity of quarters, schools and recreational facilities.

Surface Danger Zone - The area encompassing the entire range, as designated by the commanding officer of the installation, into which only authorized persons are permitted entry during conduct of a firing exercise. It is generally composed of a firing line or area, an impact area, and a ricochet area on either side of and beyond the outer end of the impact area. In some cases a buffer zone is included. The surface danger zone will vary with each weapon.

Survey Control Point - A permanent or semi-permanent concrete or brass marker placed to denote a topographical reference point.

Tactical Landing Zone - A predesignated helicopter landing zone, usually named after a bird, which provides air and ground units a training facility for helicopter operations.

Temporary Interruption (of the Intracoastal Waterway) - The blocking of traffic on the Intracoastal Waterway due to training exercises for periods of a few minutes to not more than one hour.

<u>Toxic Agent</u> - Poisonous agents which are capable of causing physiological injury.

Training Devices - An item designed exclusively for training purposes to demonstrate or illustrate a concept, or to provide a synthetic situation in which human skills or techniques are developed or improved. Specifically excluded is operational equipment which from time to time may be used for training purposes.

<u>Training Facilities Branch</u> - See "Base Training Facilities Branch".

Training Facility - A structure, range or area specifically designed for military training.

<u>Unserviceable Ammunition</u> - Ammunition beyond its life expectancy or which fails to respond as its designer intended. May be a single round or a complete ammunition lot.

<u>Verona Loop</u> - A complex of training facilities located west of New River.

Warning Area - An airspace similar to a restricted area, (hazard to flight or navigation), except that a warning area is located outside the continental limits of the United States. Penetration of a warning area during periods of activity may be extremely hazardous to the pilot, aircraft, and passenger. Warning areas are established to permit military maneuvers and firing in certain offshore areas as a necessary feature of combat training. Changes in warning areas are made in the same manner as changes to restricted areas.

Wet Bulb Globe Temperature (WBGT) - A rating of temperature and humidity as it affects personnel. Intensity of human exertion must be reduced as the WBGT reaches specific levels.

# APPENDIX B INDIVIDUAL RANGE REGULATIONS

- 1. RANGE. A-1
- 2. <u>LOCATION</u>. GS 7844

# 3. DESCRIPTION

- a. Pistol range.
- b. Ten manually operated targets with firing lines at 15, 25 and 50 yards.
- c. Ten manually operated targets with firing lines at 50 yards.

# 4. AUTHORIZED FIRING

- a. Weapons Pistols and revolvers
- b. Ammunition Service

# 5. RANGE LIMITS

a. Right Flank Coordinates: 788441

Azimuth: 1650

b. Left Flank Coordinates: 790441

Azimuth: 1480

#### 6. COMMUNICATIONS

- a. Dial telephone (6254) available on range.
- b. See Section IV.
- 7.  $\underline{\text{KNOWN INTERFERENCE}}$ . Water traffic from Northeast Creek and New River.
- 8. SAFETY EQUIPMENT. Scarlet streamers.
- 9. RANGE PERSONNEL. Officer in Charge of firing and one range guard.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

#### 11. SPECIAL INSTRUCTIONS

a. Post range guard near firing line to give timely warning to the officer in charge of firing upon the approach of helicopters, watercraft or other hazards.

b. Prior to firing, the officer in charge of firing or his representative will request permission to commence fire by contacting Base Range Control Duty Officer (3064). The same number will be called upon securing of firing.

- 1. RANGE. B-12
- 2. LOCATION. GS 7444

- a. Rifle, shotgun and pistol range.
- b. Ten manually operated targets. Firing line at 15 and 25 yards.

#### 4. AUTHORIZED FIRING

- a. Weapons Cal. .22 rifle, pistols, shotguns.
- b. Ammunition Service

# 5. RANGE LIMITS

a. Right Flank Coordinates: 743449

Azimuth: 1750

b. Left Flank Coordinates: 744447

Azimuth: 170°

## 6. COMMUNICATIONS

- a. Dial telephone on range 0758.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. BC East of Grid Line 74
- 8. <u>SAFETY EQUIPMENT</u>. Scarlet streamers.
- 9. RANGE PERSONNEL. Officer in charge of firing/one range operator.
- 10.  $\underline{\text{MEDICAL PERSONNEL}}$ . Corpsman with first aid equipment and military safety vehicle with driver.

- a. Fly scarlet streamers at firing line and on top of butts.
- b. Prior to firing, the officer in charge of firing or his representative will request permission to commence fire by contacting Base Range Control Duty Officer (3064) The same number will be called upon securing of firing.

- c. Recreational firing is authorized if scheduled with Base Range Control Officer.
  - d. Range will not open until 0900 each morning.

- 1. RANGE. B-14
- 2. LOCATION. GS 7342

- a. Assault of a fortified position.
- b. Two earthen bunkers, 13 demolition pits.

## 4. AUTHORIZED FIRING

- a. Weapons Service rifle, M60 MG, M72 rocket launcher and M203.
- b. Ammunition Blanks, M73 rocket (subcaliber only), demolitions (1/4 lb blocks), and smoke grenades.

# 5. RANGE LIMITS

a. Right flank coordinates: 734423

Azimuth: 480 G

b. Left flank coordinates: 734424

## 6. COMMUNICATIONS

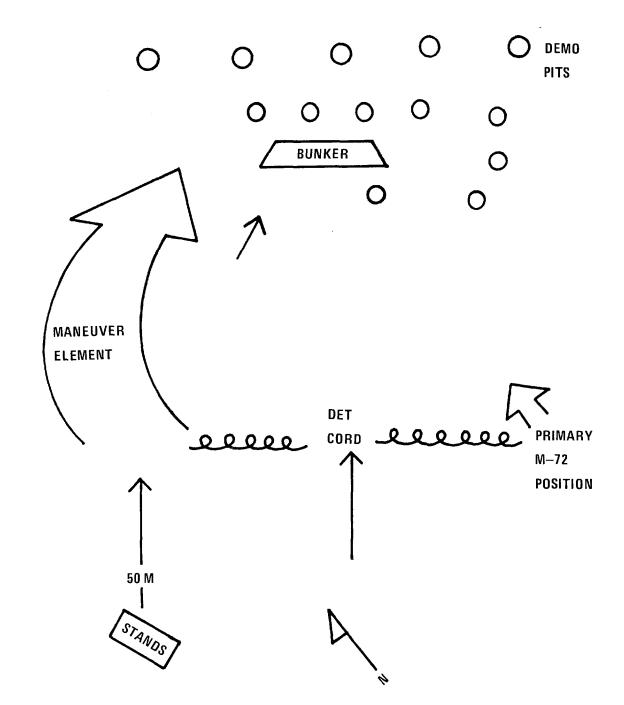
- a. No phone.
- b. See Section IV.
- c. Dual communications to Base Range Control Office required.
- 7. KNOWN INTERFERENCE. Movement along surface approaches leading into impact area.

# 8. SAFETY EQUIPMENT

- a. Scarlet streamer.
- b. Install barricades at the back blast danger area and on the vehicular approaches to the impact area.
  - c. Fire extinguishers (chemical only).
- d. Insure that "Danger-Impact Area" signs are posted at all normal surface approaches to the impact area.

- 9. RANGE PERSONNEL. Officer in Charge of firing plus one (1) Range Safety Officer.
- 10. <u>MEDICAL</u>. Corpsman with first aid equipment and medical safety vehicle with driver.

- a. Two (2) range safety officers required. One moves with the maneuver element. One is responsible for the overall safety of the range.
  - b. Scarlet range flag at tower.
- c. Barricades for back blast area and on vehicular approaches to impact area.
  - d. The range safety officers will ensure that:
- (1) The M72 Rocket Launcher will be fired only from the designated positions and only toward the earthen bunker and in accordance with existing regulations. Dangerous recochets can result if the practice rocket rounds hit the concrete bunkers.
- (2) Safety officers will ensure that all charges have detonated prior to personnel entering the immediate area.



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- 1. RANGE. D-6
- 2. LOCATION. Building 451, Hadnot Point

- a. Indoor small bore.
- b. Eight manually operated targets at 50 feet.

## 4. AUTHORIZED FIRING

- a. Weapons Cal. .22 rifles, pistols and revolvers.
- b. Ammunition .22 Cal. short, long and long rifle.
- 5. RANGE LIMITS. Not applicable

# 6. COMMUNICATIONS

- a. Dial telephone available in Building 451 (3738).
- b. See Section IV.
- 7. KNOWN INTERFERENCE. None
- 8. SAFETY EQUIPMENT. None
- 9. RANGE PERSONNEL. Officer in charge of firing.
- 10. <u>MEDICAL</u>. Officer in charge of firing insure medical assistance is immediately available from Base Dispensery, Building 15, phone 3211.

- a. Recreational firing is authorized when formally scheduled. See Section II.
- b. Officers in charge of firing may accomplish range check in/out by telephone to Range Control Duty Officer at 3064. Check in/out is required for recreational firing. In case of emergency or accident, notify Range Control or, if no answer, the Base Staff Duty Officer, phone 2528/2527.

- 1. RANGE. D-9
- 2. LOCATION. GS 8539

- a. Recreational skeet range.
- b. Four electrically operated skeet ranges and one electrically operated trap range.

## 4. AUTHORIZED FIRING

- a. Weapons Shotguns, gauges 12 through 410.
- b. Ammunition Shot, size 7 1/2, 8 or 9 standard or reduced loads.

WARNING: Magnum loads of any size and shot sizes heavier than 7 1/2 are prohibited.

5. RANGE LIMITS. Not applicable.

#### 6. COMMUNICATIONS

- a. Dial telephone (3889) available on range.
- b. See Section IV.

# 7. KNOWN INTERFERENCE

- a. Troops in maneuver area DB.
- b. TLZ Sparrow.
- 8. SAFETY EQUIPMENT. Scarlet streamer.
- 9. RANGE PERSONNEL. Officer in charge of firing.
- 10. MEDICAL. Officer in charge of firing may obtain medical assistance from Base Dispensary, Building 15, phone 3211.

- a. Range check out/in will be accomplished at Base Special Services.
- b. Troops engaged in training exercises in Maneuver area DB will remain outside the impact area of this range during scheduled range operation as published in the Weekly Firing Notice.

c. Scheduled helicopter operations at TLZ Sparrow have priority over recreational use of this range.

- 1. RANGE. D-27
- 2. LOCATION. GS 8736

- a. Assault of a fortified position.
- b. Concrete pill boxes, double apron barbed wire fence.

## 4. AUTHORIZED FIRING

- a. Weapons Service rifles, M-72 Rocket Launchers M60 Machine guns, M-72 Rocket Launchers and M-202 multi shot and M203.
- b. Ammunition Blanks, M73 (sub caliber only), demolitions (1/4 lb blocks), smoke hand grenades.

# 5. RANGE LIMITS

- a. Right flank coordinates: 879366
  - Azimuth: 270° G
- b. Left flank coordinates: 879359
  - Azimuth: 270° G

# 6. COMMUNICATIONS

- a. Dial telephone (1371) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. Troop movement in DC area.

# 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Fire extinguishers. (Chemical only)

#### 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range guard.
- b. Range Safety Officers as required.

10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

- a. Fly scarlet streamers at firing line and at Main Service Road entrance at all times while range is in operation.
- b. Maintain road guard at junction of entrance road and Main Service Road while firing.
- c. Firing of M72 rocket launcher (practice), M-202 Multishot may take place in any direction providing the surface danger area does not include the spectator stands, the Main Service Road, Sneads Ferry Road or the Magazine Area.

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- 1. RANGE. D-29
- 2. LOCATION. GS 8338

- a. Rifle, pistol and shotgun range.
- b. Fifty fixed rifle targets at 15 yards and sixteen manually operated pistol targets at 15 and 25 yards. Standard rifle and pistol targets will be provided by Training Facilities. Using units provide C Course targets.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, pistols, revolvers and shotguns.
  - b. Ammunition Service.

# 5. RANGE LIMITS

- a. Right Flank Coordinates: 839382
  - Azimuth: 261° G
- b. Left Flank Coordinates: 839381

Azimuth: 260° G

# 6. COMMUNICATIONS

- a. Dial telephone (2002) available on range.
- b. See Section IV.

## 7. KNOWN INTERFERENCE

- a. Waterborne traffic on New River.
- b. Helicopter traffic between MCAS (H) and Camp Lejeune.
- 8. SAFETY EQUIPMENT. Scarlet streamers.

#### 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. Training Facilities Branch provides on site range operator.

10.  $\underline{\text{MEDICAL}}$ . Corpsman with first aid equipment and military safety vehicle with driver.

- a. Base Range Control insures that scarlet streamers are flown from the easterly shore of New River at coordinates 821393 and 855356 from one hour prior to firing until termination. Officer in charge of firing will raise and lower scarlet streamers at the firing line prior to firing until termination.
- b. The officer in charge of firing will post a range guard in the range tower prior to firing to give warning when boats or aircraft approach the danger zone.

- 1. RANGE. D-30
- 2. LOCATION. GS 8536

- a. Rifle and pistol range.
- b. Forty-six rifle targets at 15 yards and fifteen manually operated pistol targets with firing lines at 15 and 25 yards. Standard rifle and pistol targets will be provided by Training Facilities. Using units provide C Course targets.

## 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, pistols and revolvers.
  - b. Ammunition Service

## 5. RANGE LIMITS

a. Right Flank Coordinates: 850367

Azimuth: 2150 G

b. Left Flank Coordinates: 851367

Azimuth: 215° G

#### 6. COMMUNICATIONS

- a. Dial telephone (2009) available on range.
- b. See Section IV.

#### 7. KNOWN INTERFERENCE

- a. Waterborne traffic in New River.
- b. Helicopter traffic between MCAS (H) and Camp Lejeune.
- 8. SAFETY EQUIPMENT. Scarlet streamers.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range guard.
- b. Training Facilities Branch provides on-site range operator.

10.  $\underline{\text{MEDICAL}}$ . Corpsman with first aid equipment, military safety vehicle with driver.

- a. The officer in charge will raise and lower scarlet streamers from the flagpole prior to firing until termination.
- b. The officer in charge of firing will post a range guard in the range tower prior to firing to give warning when boats or aircraft approach the danger area.

- 1. RANGE. E-1
- 2. LOCATION. GS 8824-8924
- 3. DESCRIPTION. Surface to Air Missile Range
- 4. AUTHORIZED FIRING. Surface to air missles

## 5. RANGE LIMITS

a. Right Flank Coordinates: 880246

Azimuth: G-1850

b. Left Flank Coordinates: 899260

Azimuth: G-85°

## 6. COMMUNICATIONS

- a. Dial telephone (telephone number 7425 located in Onslow South Tower).
- b. Radio communications with Range Control in addition to dial telephone.

# 7. KNOWN INTERFERENCE

- a. Waterborne traffic in the seaward approaches to Onslow Beach.
- b. Transient aircraft and military aircraft involved in support missions of training being conducted at Camp Lejeune.

# 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Binoculars.
- c. Surveillance aircraft.
- d. Surveillance radar.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing/range safety officer.
- b. Senior missile director.

- c. Assistant missile director.
- d. Visual observers.
- e. Range guards.
- 10. MEDICAL. An Aid Station manned by a medical officer and corpsman. Military safety vehicle with driver will be available for evacuation purposes.

- a. Firing will be conducted in accordance with published standing operating procedures for missile firing at Onslow Beach/Range E-1.
- b. Fly scarlet streamer during daylight firing prior to commencing fire until termination of firing at the following flag poles:
  - (1) South Tower, Range E-1
  - (2) Beach Road adjacent to Riseley Pier.
- (3) Flag pole located at U.S. Coast Guard Life Boat Station, Bogue Inlet, Swansboro, N.C.
- c. Visual observers posted on South Tower will be equipped with binoculars.
- d. Range guards posted at Beach Road and on beach adjacent to Riseley Pier will permit passage of authorized personnel only upon notification and approval of the officer in charge of firing.
- e. Firing will cease if aircraft or surface craft enters the Missile Hazard Area.

- 1. RANGE F-2
- 2. LOCATION GS 9042
- 3. DESCRIPTION Field firing range.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, shotguns and pistols.
  - b. Ammunition Service; and smoke hand grenades.

# 5. RANGE LIMITS

- a. Right Flank Coordinates: 906428
  - Azimuth: 2050 G
- b. Left Flank Coordinates: 907427

Azimuth: 1790 G

## 6. COMMUNICATIONS

- a. Dial telephone (2007) available on range.
- b. See Section IV
- 7. KNOWN INTERFERENCE. Range F-4 and F-5
- 8. SAFETY EQUIPMENT. Scarlet streamers.
- 9. RANGE PERSONNEL. Officer in charge of firing.
- 10.  $\underline{\text{MEDICAL}}$ . Corpsman with first aid equipment and military safety vehicle with driver.

- a. The down-range segment is within a surface danger zone. Do not advance further than 900 meters from the firing line when F-4 or F-5 are firing.
- b. No firing is permitted if troops are maneuvering on ranges F-4 or F-5.
- c. Fly scarlet streamers at entrance road from highway 24 and on left flank at exit road to Range F-5 at all times while range is in operation.

- d. Maintain range guards at entrance from Highway 24 and on left flank at road leading to Range F-5 while firing.
- e. This range is designated to teach basic individuals, fire team and squad control.
- f. Vehicle movement down-range is restricted to existing roads.

- 1. RANGE F-3
- 2. LOCATION GS 9337

- a. Field firing range.
- b. Stationary tank hulls and other targets provided by unit.

#### 4. AUTHORIZED FIRING

a. Weapons - Service rifles, M-60 machine guns, shotguns, pistols and M72 rocket launchers.

b. Ammunition - Service, M73 rocket (sub caliber only), and 1/8-1/4 lb TNT.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 939380

Azimuth: 2950 G

b. Left Flank Coordinates: 938378

Azimuth: 286° G

# 6. COMMUNICATIONS

- a. Dial telephone (2001) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. None
- 8. SAFETY EQUIPMENT. Scarlet Streamers.
- 9. <u>RANGE PERSONNEL</u>. Officer in charge of firing and two range guards.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

#### 11. SPECIAL INSTRUCTIONS

a. The down-range segment is within a common impact area. Do not advance further than 2400 meters from the firing line without clearance from the Range Control Duty Officer.

- b. Maintain range guard at each flank entrance to the range while firing.

- 1. RANGE. F-4
- 2. LOCATION. GS 9142

- a. Individual, fire team and squad fire control range.
- b. Ten electro-mechanical "pop-up" targets.

#### 4. AUTHORIZED FIRING

- a. Weapons Rifles automatic rifles, pistols and shotguns.
- b. Ammunition Service and smoke grenades.

# 5. RANGE LIMITS

a. Right Flank Coordinates: 919425

Azimuth: 191° G

b. Left Flank Coordinates: 920425

Azimuth: 191° G

## 6. COMMUNICATIONS

- a. Dial telephone (2007) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. Ranges F-2 and F-5.
- 8. SAFETY EQUIPMENT. Scarlet streamers.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range guard
- b. One range operator is provided by Training Facilities Branch.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

a. The down-range segment is within a surface danger zone. Do not advance further than 900 meters from the firing line of departure. Do not move forward of the firing line if F-2 or F-5 are firing.

- b. No firing is permitted if troops are maneuvering on Ranges F-2 or F-5.
- c. Fly scarlet streamer at entrance road from Highway 24 (921428) at all times while range is in operation.
- d. Maintain range guard at entrance road from Highway 24 (921428) while firing.
- e. Install road blocks on Smith Road at 923413 and 913421.
- $f.\$  Boundaries are marked by white posts in addition to standard down-range markers. Personnel will be cautious to remain within the boundaries at all times.

- 1. RANGE F-5
- 2. LOCATION GS 9042

- a. Field firing and battle sight training.
- b. Two earthen bunkers, one tank and other targets as supplied by using unit.
- c. Twenty SARTS target positions set up in grid pattern for machine gun use.
- 4. <u>AUTHORIZED FIRING</u> Weapons Rifles, automatic rifles, M60 machine guns, shotguns and pistols.

### 5. COMMUNICATIONS

- a. Dial telephone (2007) available on range.
- b. See Section IV.
- 6. KNOWN INTERFERENCE. Ranges F-2 and F-4
- 7. SAFETY EQUIPMENT Scarlet streamer.
- 8. RANGE PERSONNEL Officer in charge of firing and two range guards.
- 9.  $\underline{\text{MEDICAL}}$ . Corpsman with first aid equipment and military safety vehicle with driver.

- a. The down-range segment is within a surface danger zone. Do not advance further than 700 meters from the firing line. Remain on the firing line or no more than 25 meters in front of the mound when F-2 or F-4 are in use.
- b. Fly scarlet streamer at entrance from Highway 24 at all times when range is in operation.
- c. Display live firing signs on Highway 24 road shoulder at right and left range limits.

d. Maintain one range guard at entrance from highway 24 and one on east flank at road leading to Range F-2 while firing.

- 1. RANGE F-6
- 2. LOCATION GS 8738
- 3. DESCRIPTION Hand grenade range with five throwing pits.
- 4. <u>AUTHORIZED FIRING</u> HE hand grenades and practice hand grenades (in practice area only).

### 5. RANGE LIMITS

a. Right Flank Coordinates: 877381

Azimuth: 970 G

b. Left Flank Coordinates: 877382

Azimuth: 740 G

### 6. COMMUNICATIONS

- a. Dial telephone (2011) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE None
- 8. SAFETY EQUIPMENT Scarlet streamers
- 9. RANGE PERSONNEL. Officer in charge of firing and one range guard.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Fly scarlet streamer at entrance road from Sneads Ferry Road at all times while range is in operation.
- b. Maintain range guard at entrance road from Sneads Ferry Road while firing.
- c. Insure that personnel not required to be in throwing pits are under cover of the troop shelter prior to authorizing live fire.
- d. The Range Control Duty Officer will alert an Explosive Ordnance Disposal Team to be on standby while live fire exercises are in progress.

- e. When a grenade fails to function, the officer in charge of firing will:
  - (1) Cease all grenade throwing.

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- (2) Assure all personnel remain under cover until the dud has been cleared by EOD personnel.
  - (3) Notify Range Control Duty Officer of the dud.
- (4) After dud has been cleared, request permission from the Range Control Duty Officer to continue throwing grenades.
- f. Duds will not be marked, handled, moved, or destroyed except by EOD officers/technicians. A 30 minute wait period will be observed by EOD personnel prior to clearing a dud grenade, after the dud grenade has been thrown.
- g. That portion of the range forward of the throwing pits is a hazardous area. Entry is permitted only if accompanied by EOD personnel.
- h. Practice grenades will not be used on the live grenade range. A practice grenade area is located on the entrance road from Sneads Ferry Road. Authority to use Range F-6 includes the practice grenade area.
- i. Although there are five (5) throwing pits, the officer in charge of firing will insure that not more than one (1) grenade is thrown at a time.
- j. Hand grenades will not be thrown down range after one hour before sunset.

- 1. RANGE F-9
- 2. LOCATION GS 8740
- 3. DESCRIPTION Military Police Range

## 4. AUTHORIZED FIRING

- a. Pistol and Revolvers
- b. Ammunition Service

## 5. RANGE LIMITS

a. Right Flank Coordinates: 875406

Azimuth: 1180

b. Left Flank Coordinates: 875406

Azimuth: 920

### 6. COMMUNICATIONS

- a. Dial telephone (2006) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE Maneuvering troops on Range F-12, or firing exercises on F-10.
- 8. SAFETY EQUIPMENT Scarlet streamers
- 9. RANGE PERSONNEL Officer in charge of firing and one range guard One range operator is provided by Training Facilities.
- 10. MEDICAL Corpsman and first aid equipment. Military safety vehicle with driver.

- a. Fly scarlet streamer and maintain road guard at range entrance at all times while range is in operation.
- b. This range will not be used while fire and maneuver exercises are in progress on F-12 or during firing exercises on F-10.
- c. The down-range area is within a surface danger zone. Troops will remain clear of the berm and down range areas east of the berm.

- 1. RANGE F-10
- 2. LOCATION GS 8740

- a. Search and traverse machine gun and shotgun range.
- b. Sixteen fixed targets at 500", 1000" and 75 meters.

### 4. AUTHORIZED FIRING

- a. Weapons Machine guns, shotguns, service rifle and auto rifle.
- b. Ammunition Service

### 5. RANGE LIMITS

a. Right Flank Coordinates: 875407

Azimuth: 112° G

b. Left Flank Coordinates: 875409

Azimuth: 810 G

## 6. COMMUNICATIONS

- a. Dial telephone (2006) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. Maneuvering troops on Range F-12
- 8. SAFETY EQUIPMENT. Scarlet streamers

#### 9. RANGE PERSONNEL

- a. Officer in charge of firing and two range guards.
- b. One range operator is provided by Training Facilities Branch.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

## 11. SPECIAL INSTRUCTIONS

- a. Fly scarlet streamer at road junction GS 876412 at all times while range is in operation.
- b. Maintain range guards at coordinates 875405 and 876412 while firing.

c. This range will not be used while fire and maneuver exercises are in progress on F-12.

- 1. RANGE F-11
- 2. LOCATION GS 8639

- a. Rifle and pistol range.
- b. Fifteen manually operated pistol targets at 15,25 and 50 yards and twenty-two fixed fire targets at 15 yards. Standard targets will be furnished by Training Facilities. Using units provide C Course targets.

## 4. AUTHORIZED FIRING

- a. Weapons Rifles (.22 Cal., .30 Cal.,  $5.56\,\mathrm{mm}$  and  $7.62\,\mathrm{mm}$ ), pistols, shotguns and revolvers.
  - b. Ammunition Service.

## 5. RANGE LIMITS

- a. Right Flank Coordinates: 869393
  - Azimuth: 830 G
- b. Left Flank Coordinates: 869394

Azimuth: 830 G

## 6. COMMUNICATIONS

- a. Dial telephone (2005) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE F-18 artillery sub-caliber range.
- 8. SAFETY EQUIPMENT. Scarlet streamer.

## 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. Training Facilities Branch provides on-site range operator.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. On-site range operator flies scarlet streamer at right rear of firing line at all times while range is in operation.
- $\ensuremath{\text{b.}}$  Rifles will be fired on the left side of this range only.

- 1. RANGE F-12
- 2. LOCATION GS 8740

- a. Individual, fire team and squad assault range.
- b. Twenty-four electro-mechanical "pop-up" targets, 3 bunkers, 3 tank hulls.

### 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, M-60 machine guns.
- b. Ammunition Cal. 30, 5.56mm or 7.62mm, demolitions (1/4 lb. blocks).

## 5. RANGE LIMITS

a. Right Flank Coordinates: 874403

Azimuth: 1130 G

b. Left Flank Coordinates: 874404

Azimuth: 91° G

### 6. COMMUNICATIONS

- a. Dial telephone (2004) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE Range F-9, F-10 and artillery subcaliber range must be closed when this range is used.
- 8. SAFETY EQUIPMENT Scarlet streamer.

## 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range guard.
- b. One range operator is provided by Training Facilities Branch.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

### 11. SPECIAL INSTRUCTIONS

a. This range is designed to teach advanced assault. It should be fired before Range L-5 and after Ranges F-3 and F-4.

- b. Demolitions up to 1/4 pound TNT equivalent may be used to simulate artillery rounds upon approval of the Base Training Facilities Officer.
- c. The Officer in charge of firing will insure that Ranges F-9 and F-10 are closed prior to ordering an advance by maneuvering elements on F-12.
- d. Fly scarlet streamer on pole at 871405 while range is in operation.
- e. Maintain road guard at road entrance to range (871405) while firing.
- f. The down-range maneuver area is within a surface danger zone. Do not advance more than 900 meters in the fire and maneuver areas.

- 1. RANGE F-17
- 2. LOCATION GS 8838
- 3.  $\underline{\text{DESCRIPTION}}$ . Four towers with debarking stations, nets and  $\underline{\text{mike boat mock-ups}}$ .

### 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, all organic weapons.
- b. Ammunition Blanks only.
- 5. RANGE LIMITS. FD Maneuver Area.
- 6. COMMUNICATIONS. Dial telephone (2011) available on range.
- 7. KNOWN INTERFERENCE None.

## 8. SAFETY EQUIPMENT

- a. Scarlet streamer on flag pole at entrance.
- b. Guard at gate.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. No live fire is authorized on this range. Blanks may be used at the discretion of the officer in charge.
  - b. Enter range from the Sneads Ferry Road entrance.

- 1. RANGE F-18
- 2. LOCATION GS 8739

17

- a. Night Field firing range and artillery sub caliber range.
- b. Twelve electro-mechanical "pop-up" targets, each illuminated by flashing yellow light. Targets are positioned at 50 yards, 75 yards and at 100 yards.

## 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles.
- b. 14.5 Sub caliber
- c. Ammunition Service.

### 5. RANGE LIMITS

a. Right Flank Coordinates: 871391

Azimuth:  $75^{\circ}$  G

b. Left Flank Coordinates: 871392

Azimuth:  $68^{\circ}$  G

### 6. COMMUNICATIONS

- a. Dial telephone (2003) available on range.
- b. See Section IV.
- 7. <u>KNOWN INTERFERENCE</u> F-9, F-10, F-11 and F-12 for Subcaliber range.
- 8. <u>SAFETY EQUIPMENT</u>. Red flashing lights for night firing or scarlet streamers for daylight firing.

### 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range guard.
- b. One range operator is provided by Training Facilities Branch.
- 10. <u>MEDICAL</u> Corpsman with first aid equipment and military safety vehicle with driver.

- a. No down-range movement is permitted, except for artillery sub-caliber firing.
- b. Fly scarlet streamer from flagpole during daylight hours and display red flashing light after sunset from flag pole at center entrance from Sneads Ferry Road while range is in operation.
- c. After sunset, install road blocks and red flashing lights on Main Service Road at 871392 and 871393 (North and South Flanks).
- d. Maintain range guard at center entrances near flag pole while firing.
- e. Both the right and left down-range markers will be illuminated while night training exercises are in progress.
- f. This range is designed for night use in teaching firing techniques at varying distances.
- g. Artillery sub-caliber range is used to train all forward observers, and fire directional center personnel in correct call for fire and coordination fire data procedures.

- 1. RANGE G-2
- 2. LOCATION GS 9032
- 3. DESCRIPTION Infiltration Range

## 4. AUTHORIZED FIRING

- a. Weapons Machine guns as prescribed in reference (a).
- b. Ammunition As prescribed by reference (a) and demolitions.

### 5. RANGE LIMITS

a. Right Flank Coordinates: 905323

Azimuth: 15° G

b. Left Flank Coordinates: 904323

Azimuth: 100 G

## 6. COMMUNICATIONS

- a. Dial telephone (5179) available on range.
- b. Field phones from tower to machine gun positions.
- c. See Section IV.
- 7. KNOWN INTERFERENCE. Tank trail running generally southeast to northwest from GC 909327 to GC 902337.
- 8. SAFETY EQUIPMENT Scarlet streamers.

## 9. RANGE PERSONNEL

- a. Officer in charge of firing, machine gunners and tower guards.
- b. Training Facilities Branch will provide additional operators for the range.
- 10.  $\underline{\text{MEDICAL}}$  Corpsman with first aid equipment and military safety vehicle with driver.

- a. The using units will provide machine guns, ammunition and demolitions.
- b. Training Facilities Branch will provide machine gun noise simulators for units not desiring to use live ammunition.

- c. The prefiring inspection and calibration of fixed machine guns, use of weapons and explosives and the conduct of training will be in accordance with reference (a).
- d. This range is operated by Training Facilities Branch. The officer in charge of firing will be guided by reference (a), MCO 3570.1, and the following:
- (1) All troops of the using units will receive a lecture on the safety regulations governing the use of the range to include but not necessarily restricted to the following:
- (a) No personnel will be allowed near or around the machine guns except the qualified range operators and officer in charge of firing (identified by colored headgear).
- (b) All movement of troops will be supervised by and only on command of the officer in charge of firing or designated range safety officers.
- (c) During the operation of the course no personnel will be allowed down range except those safety guards designated by the officer in charge of firing.
- (2) Safety guards will be designated and posted in the flank towers provided. They will be guided but not necessarily restricted in the performance of their duties by the following:
- (a) Relay all commands issued by the senior instructor regarding movement of troops.
- (b) Observe the movement of all troops, paying particular attention to those troops approaching demolition pits from the rear.
- (c) Wave a red flag when or if they observe anyone attempting to enter a demolition pit.
- (d) Wave a red flag if they observe low rounds or other unsafe conditions.
- (3) Instructions regarding the actual infiltration of the troops will be given as follows:
- (a) Relays will take up position in front of numbers posted in the starting trench.
- (b) Crawl out of the trench only on command of the chief instructor.

- (c) Infiltrate up-range in accordance with proper crawl procedure.
- (d) Infiltrate through double apron fence in accordance with proper procedures.
- (e) Enter the last trench in accordance with prescribed methods.
- (f) All troops will evacuate trench in the following manner:
- $\underline{1}.$  Troops to the right of gun #2 will move out to the right.
- $\underline{2}.$  Troops to the left of gun #2 will move out to the left.
- (g) Upon completion of the course all troops will go immediately to the assembly point behind the tower.
  - (4) The officer in charge of firing will:
- (a) Inspect each gun and insure that the traversing and depressing clamps are properly secured prior to movement of troops down range.
- (b) Cause four or more bursts to be fired from each gun at the paper target provided, watching the impact of all rounds into the bullet trap. Impact should be well into the traps at all times. Inspect the pattern of rounds on the target and insure an acceptable cone (approximately 15") exists; date and sign target in ink.
- (c) Inspect each demolition pit prior to use to insure it is clear of any debris which may become a missile hazard.
- (d) Insure that all charges are fired only from demolition pits.
  - (e) Insure that charges are not tamped.
- (f) Personally inspect each pit from towers to insure that no one has inadvertently crawled into them.
- (g) Insure that all explosives detonated on this range will be detonated only by the primary instructor.
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- (i) Insure that all safety guards have been properly instructed and posted.
- (j) Insure that the firing panel for the demolitions is cleared after each platoon has completed the course.
- (k) Allow no personnel down range until the firing and control tower are cleared of all personnel and insure that all personnel have returned from down range prior to anyone returning to the tower.
- (1) That movement of troops is controlled by the chief instructor only, and that such movement is in accordance with paragraph 2.b above.
- (m) Prior to and during any class, notify the chief instructor of any condition he believes to be unsafe.
  - (5) The Chief Instructor will:
- (a) Be guided in the performance of his duties by these instructions, MCO 3570.1, BO P11102.1I and by the orders of the officer in charge of firing.
- (b) Insure that each machine gun delivered for use on this range has been inspected by a qualified armorer immediately prior to use and after each 1000 rounds of firing. Gun barrels worn beyond a breech bore diameter of 0.304 are considered to be unsafe.
- (c) Test fire in accordance with paragraph 6.b above in the morning, noon and again in the evening prior to dusk on all days the range is in operation.
- (d) Insure that a copy of these instructions is properly and conspicuously posted on the range at all times.

- 1. RANGE G-4
- 2. LOCATION GS 9232
- 3. DESCRIPTION Demolition Range
- 4. <u>AUTHORIZED FIRING</u> Demolitions, Linear Rocket, M68Al (Inert) charge and land mines not to exceed a charge of fifty pounds net TNT equivalent per shot.
- 5. RANGE LIMITS Grid square 9232

## 6. COMMUNICATIONS

- a. Dial telephone (3986) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. None.
- 8. SAFETY EQUIPMENT. Scarlet streamers.
- 9. RANGE PERSONNEL Officer in charge of firing and range guard.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Fly scarlet streamer on flag pole at entrance road east of road junction (912323).
- b. Maintain range guard on entrance road east of road junction GS 9132 while firing.
- c. Take appropriate precautions to guard against accidental detonation of electrical blasting caps by extraneous electricity.
- d. Requests for detonation of charges in excess of 50 pounds may be submitted through channels to this Headquarters for evaluation.
  - e. Schedule through 2d Combat Engineer Battalion.

- 1. RANGE G-4A
- 2. LOCATION GS 9333
- 3. DESCRIPTION EOD Disposal Site.
- 4. <u>AUTHORIZED FIRING</u>. Authorized for use by 2d FSSG EOD Platoon for disposal of dud/unserviceable ammunition.
- 5. RANGE LIMIT GS 9333
- 6. COMMUNICATIONS See Section IV, paragraph 416.
- 7. KNOWN INTERFERENCE. Low-flying aircraft.
- 8. SAFETY EQUIPMENT
  - a. Scarlet streamers.
  - b. Warning siren.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

- a. Fly red flag and maintain barricades on all roads leading to the disposal site, while site is in use.
- b. Sound ten second warning siren one minute prior to each shot.
- c. The maximum explosive weight authorized by reference (q), is subject to provisions of paragraph 402.4 on blast focus prediction.

- 1. RANGE. G-5
- 2. LOCATION GS 9432

- a. Mechanized tank range.
- b. Mechanical moving targets and improvised down-range targets.

### 4. AUTHORIZED FIRING

- a. Weapons Tank guns, MG's, M14's and M-16 rifles may also be fired incidental to the firing of but not to the exclusion of the above weapons.
- b. Ammunition. All types except high velocity projectiles exceeding 25,000 yards seaward.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 941321

Azimuth: 1390

b. Left Flank Coordinates: 942322

Azimuth: 116°

## 6. COMMUNICATIONS

- a. Dial telephones available on range: range building (7438); Bear Creek Tower (1740).
- b. Internal radio communications will be established and maintained between the officer in charge of firing, safety towers and the firing line prior to and during firing.
- c. The officer in charge of firing will maintain wire communications with Base Range Control during all firing.
  - d. See Section IV.
  - e. Dual communications required.
- f. Radio frequency 49.75 MHz for towers, and Guard Safety Boats. Radio frequency 38.60 MHz for Range Control (BLACKBURN).
  - g. Five radios required.

### 7. KNOWN INTERFERENCE

- a. Waterborne traffic in the Intracoastal. Waterway and seaward approaches to Brown's Island.
- b. Transient aircraft and military engaged in close air support missions on Brown's Island.

## 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Red flashing lights.
- c. Binoculars.

## 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. Range safety officer. This officer will be in addition to the officer in charge of firing and position safety officers.
  - c. Position safety officers when required.
  - d. Four range guards.
- e. Range operators are provided by Training Facilities Branch.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers.
  - (1) Bear Creek Tower.
  - (2) Onslow Beach North Tower.
  - (3) Main entrance to range G-5.
  - (4) Main entrance to range G-5A
- (5) Flag pole located at U.S. Coast Guard Life Boat Station, Bogue Inlet, Swansboro, N.C.
- b. Range guards posted on towers will be equipped with binoculars and radios. Sectors of observation are:

- (1) Bear Creek Tower Guard: 65° M to 190° M
- (2) Onslow Beach North Guard: 550 M to 2700 M
- c. Range guards will be instructed to give prompt notification to the officer in charge of firing before a vessel or aircraft penetrates the danger area as shown on the range fan overlay. Sentries will also be directed to raise and lower streamers/flashing lights at the required times.
- d. The using unit will insure that an aerial search is made of the impact area, Intracoastal Waterway, marshes, dunes, and ocean areas within the surface danger area one hour prior to firing to insure that the areas are safe for firing. Training Facilities Branch will schedule a helicopter for the using unit.
- e. Using units will post tower guards 1/2 hour prior to aerial search.
- f. The Training Facilities Branch will provide guard boats to be positioned in the waterway at Bear Creek and Freeman Creek to control boat traffic during periods of firing.
- g. Using units will register illumination rounds in the down-range sector of the waterway prior to commencing night firing. A supply of illumination rounds will be maintained at gun position for illumination of down-range sector if required while firing is in progress.
- h. Firing will cease if streamers/flashing lights are lowered or extinguished for any reason.
- i. Projectiles will not be fired to impact within 300 yards of the Intracoastal Waterway.
- j. Contact relief of tower guards. After the first range sweep for the day has been completed and tower guards have been posted, other units authorized to use range G-5 during later periods of the same day are urged to effect contact reliefs of tower guards. Otherwise, subsequent range sweeps will be required prior to the resumption of fire.
- k. Rounds containing explosive fillers will not be fired from the rear positions (closest to range tower) on the G-5 range. Explosive filler rounds will only be fired at Brown's Island.
- 1. Down-range movement is strictly prohibited unless accompanied by EOD personnel.

- 1. RANGE. G-5A
- 2. LOCATION. GS 9432

- a. Tank boresighting and zeroing range.
- b. Improvised stationary targets down range.

### 4. AUTHORIZED FIRING

- a. Weapons Tank guns 90-105mm; mortars for illumination only on G-5 and G-7.
- b. Ammunition TPT and APT only. All others prohibited except for mortar illumination rounds.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 947326

Azimuth: 173° G

b. Left Flank Coordinates: 948327

Azimuth: 161° G

## 6. COMMUNICATIONS

- a. Dial telephones available on range: Range building (7438); Bear Creek Tower (1740).
- b. Internal radio communications will be established and maintained between the officer in charge of firing, safety towers and the firing line prior to and during firing.
- c. The officer in charge of firing will maintain wire communications with Base Range Control during all firing.
  - d. See Section IV.
  - e. Dual communications required.
- f. Radio frequency 49.75MHz for towers and guard safety boats. Radio frequency 38.60MHz for Range Control (BLACKBURN).
  - g. Five radios required.

#### 7. KNOWN INTERFERENCE

a. Waterborne traffic in the Intracoastal Waterway and seaward approaches to Brown's Island.

b. Transient aircraft and military aircraft engaged in close air support missions on Brown's Island.

## 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Red flashing lights.
- c. Binoculars.

### 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. Range safety officer. This officer will be in addition to the officer in charge of firing and position safety officers.
  - c. Position safety officers when required.
  - d. Four range guards.
- e. Range operators and boat crew are provided by Training Facilities Branch.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers.
  - (1) Bear Creek Tower.
  - (2) Onslow Beach North Tower.
  - (3) Main entrance to range G-5.
  - (4) Main entrance to range G-5A.
- (5) Flag pole located at U.S. Coast Guard Life Boat Station, Bogue Inlet, Swansboro, N.C.
- b. Range guards posted on towers will be equipped with binoculars and radios. Sectors of observation are:
  - (1) Bear Creek Tower Guard: 65° M to 190° M
  - (2) Onslow Beach North Guard: 550 M to 2700 M
  - c. Range guards will be instructed to give prompt noti-

fication to the officer in charge of firing before a vessel or aircraft penetrates the danger area as shown on the range fan overlay. Sentries will also be directed to raise and lower streamers/flashing lights at the required times.

- d. The using unit will insure that an aerial search is made of the impact area, Intracoastal Waterway, marshes, dunes, and ocean areas within the surface danger area one hour prior to firing to insure that the areas are safe for firing. Training Facilities Branch will schedule a helicopter for the using unit.
- e. Using units will post tower guards 1/2 hour prior to aerial search.
- f. The Training Facilities Branch will provide guard boats to be positioned in the Intracoastal Waterway at Bear Creek and Freeman Creek to control boat traffic during periods of firing.
- g. Using units will register illumination rounds in the down-range sector of the waterway prior to commencing night firing. A supply of illumination rounds will be maintained at the gun position for illumination of down-range sector if required while firing is in progress.
- h. Firing will cease if streamers/flashing lights are lowered or extinguished for any reason.
- i. Projectiles will not be fired to impact within 300 yards of the Intracoastal Waterway.
- j. Contact relief of tower guards. After the first range sweep for the day has been completed and tower guards have been posted, other units authorized to use range G-5A during later periods of the same day are urged to effect contact reliefs of tower guards. Otherwise, subsequent range sweeps will be required prior to the resumption of fire.
- k. Range G-5 cannot be used while G-5A is being operated and vice versa.
- 1. When using the moving target device(s) only AP and APT rounds (shot rounds) will be used.
- m. Down-range movement is strictly prohibited unless accompanied by EOD personnel.

- 1. RANGE G-6
- 2. LOCATION Grid 9432
- 3. <u>DESCRIPTION</u> Mechanized Sub-Caliber Tank Gun range, to be used in conjunction with the Scaled Range Target System (SRTS) and improved down range targets.

## 4. AUTHORIZED FIRING

- a. Weapons Machine Guns Caliber .50 and 7.62.
- b. Ammunition Service

## 5. RANGE LIMITS

a. Right Flank Coordinates: 944327

Azimuth: 3470

b. Left Flank Coordinates: 944326

Azimuth: 3360

## 6. COMMUNICATIONS

- a. Dial telephones available on ranges G-5/G-5A (7438)
- b. See Section IV.

## 7. KNOWN INTERFERENCE

- a. GP-15
- b. Explosive Ordnance Disposal Site G-4A GS 9333

## 8. SAFETY EQUIPMENT

- a. Interrupter placed on .50 Cal. Machineguns
- b. Interrupter placed on 7.62mm Machineguns
- c. Scarlet range flares

## 9. RANGE PERSONNEL

- a. Officer In Charge of firing on range.
- b. Range guard will be placed at Grid 951335.

10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. All machineguns will be mechanically limited in elevation to 76 mils  $(3-4^{\circ})$  above the horizontal.
  - b. Do not advance down range into the buffer zone.
- c. Fly scarlet streamer on flag pole adjacent to Highway 172 at Grid 944326.
- d. Maintain Range Guards at entrance roads from Highway 172 (951335) while firing is in progress.
  - e. Culf 6 will be checked out when G-5 is checked out.
- f. EOD site G-4A must be available for emergency use on a continuous, 24 hour basis. In the event of such an emergency, EOD Operations will take precedence.

- 1. RANGE G-7
- 2. LOCATION GS 9534

- a. Mechanized tank gun range.
- b. Mechanical moving target. Improvised stationary targets down range and on Brown's Island.

## 4. AUTHORIZED FIRING

- a. Weapons Tank guns, field artillery, machine guns, and recoilless rifles.
- b. Ammunition All types except high velocity projectiles exceeding 25,000 yards seaward.
- c. Only AP and APT rounds may be used when firing at the moving target devices.

### 5. RANGE LIMITS

a. Right Flank Coordinates: 958342

Azimuth: 143°

b. Left Flank Coordinates: 959344

Azimuth: 140°

## 6. COMMUNICATIONS

- a. Base telephone (3258) located in the range tower.
- b. Internal land line communications and radio communications will be established and maintained between the officer in charge of firing, safety towers, road guards and the firing line prior to and during firing.
- c. Dual communications required with Base Range Control duty officer.
  - d. See Section IV.

7. KNOWN INTERFERENCE. Waterborne traffic in the Intracoastal Waterway and seaward approaches to Brown's Island; transient aircraft; military aircraft while engaged in CAS missions on Brown's Island.

## 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Red flashing lights.
- c. Binoculars.

### 9. RANGE PERSONNEL

- a. Officer in charge of firing and one range safety officer. An officer will be assigned duties as range safety officer. This officer will be in addition to the officer in charge of firing and position safety officers as required elsewhere.
  - b. Three range guards who are qualified radio operators.
- c. Range operators are provided by Training Facilities Branch.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers.
  - (1) Bear Creek: 975339.
  - (2) Onslow Beach, North: 929284.
- (3) Flag pole located at U.S. Coast Guard Life Boat Station, Bogue Inlet, Swansboro, N.C.
- b. Fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise from flagpoles at main entrance to range from highway 172.
- c. Maintain range guards at the following locations while firing:
  - (1) Bear Creek Tower.

- (2) Onslow Beach North Tower.
- (3) Main entrance to range G-7.
- d. Range guards posted on towers will be equipped with binoculars and radio. Sectors of observation are:
  - (1) Bear Creek Tower Guard:  $65^{\circ}$  M to  $190^{\circ}$  M
  - (2) Onslow Beach North Guard: 55° M to 270° M
- e. Range guards will be instructed to give prompt notification to the officer in charge of firing before a vessel or aircraft penetrates the danger area as shown on the range fan. Guards will also be directed to raise and lower streamers and flashing lights at the required time.
- f. The Training Facilities Branch will provide guard boats to be positioned in the waterway at Bear Creek and Freeman Creek to control boat traffic during periods of firing.
- g. Using units will register illumination rounds in the down-range sector of the waterway prior to commencing night firing. A supply of illumination rounds will be maintained at the gun position for illumination of down-range sector which is required while firing is in progress. Tank units may use searchlights both visible and IR mode.
- h. Firing will cease if streamers or flashing lights are lowered or extinguished for any reason.
- i. Projectiles will not be fired to impact within 300 yards of the Intracoastal Waterway.
- j. The using unit will insure that an aerial search is made of the impact area, Intracoastal Waterway, marshes, dunes and ocean areas within the surface danger area prior to firing to insure that the areas are safe for firing. Training Facilities Branch will schedule a helicopter for the using unit.
- k. Using units will post tower guard 1/2 hour prior to the aerial search being conducted.
- 1. Contact reliefs of tower guards. After the first range sweep for the day has been completed and tower guards have been posted, other units authorized to use range G-7 during later periods of the same day are urged to effect contact reliefs of tower guards. Otherwise, subsequent range sweeps will be required prior to the resumption of fire.
- m. Down-range movement is strictly prohibited unless accompanied by EOD personnel.

- 1. RANGE G-8
- 2. LOCATION GS 9037

- a. M203 Grenade Launcher Range.
- b. Vertical and point targets (used oil drums), bunkers, varying level window frames.

## 4. AUTHORIZED FIRING

- a. Weapons M203 Grenade Launcher.
- b. Ammunition 40mm, Service.

### 5. RANGE LIMITS

- a. Right Flank Coordinates: 901374.
  - Azimuth: 164° G
- b. Left Flank Coordinates: 902374
  - Azimuth: 153° G

### 6. COMMUNICATIONS

- a. Dial telephone (2013) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. None
- 8. SAFETY EQUIPMENT Scarlet streamer/flashing red light.
- 9. RANGE PERSONNEL Officer in charge of firing and one range guard.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. This is a fixed firing range. No down range movement is authorized.
- b. No attempt will be made to mark duds. Upon completion of firing the officer in charge of firing will report the number and approximate location of all duds to Range

- Control. A dud which is considered to be a hazard to further training by the officer in charge of firing will be reported immediately to Base Range Control Unexploded practice rounds will be reported as duds.
  - c. Only EOD personnel will be allowed down-range of firing.
- d. Personnel other than the officer in charge of firing and designated safety personnel not actively engaged in actual firing will remain to the rear of the firing line.
- e. All unused ammunition will be returned to the issue point upon conclusion of the exercise.
- f.  $\underbrace{\text{Misfire}}_{\text{which may}}$ : A misfire is defined as a complete failure to fire  $\widehat{\text{which}}$  may be caused by a faulty firing mechanism or a defective element in the propelling charge.

- 1. RANGE. G-9
- 2. LOCATION GS 9037

- a. M72, M202, LAAW and rifle projected hand grenade range.
- b. Tank Hull targets.

### 4. AUTHORIZED FIRING

- a. Weapons M72, M202 rocket launchers, and service rifles.
- b. Ammunition LAAW, service and practice, rifle projected hand grenades and M202 Multi-shot flame round.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 903374

Azimuth: 1710 G

b. Left Flank Coordinates: 904375

Azimuth: 1550 G

## 6. COMMUNICATIONS

- a. Dial telephone (2013) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. None.
- 8. SAFETY EQUIPMENT Scarlet streamer
- 9. RANGE PERSONNEL Officer in charge of firing and two range guards.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Personnel not actually engaged in firing, other than the officer in charge of firing and designated safety personnel, will remain to rear of firing line.
- b. This is a fixed point firing range. No down-range movement is authorized.

- c. Maintain range guards on entrance road on both flanks of firing line while firing.
- $\mbox{\rm d.}$  Fly scarlet streamer on entrance road while range is in operation.
- e. All unused ammunition will be returned to the issue point upon conclusion of the exercise.
- f. <u>Misfire</u>: A misfire is defined as a complete failure to fire which may be caused by a faulty firing mechanism or a defective element in the propelling charge.

- 1. RANGE Bombing and Target Range G-10
- 2. LOCATION GS 8936 through 9535

- a. This range is commonly referred to as the G-10 Impact Area.
- b. Bombing and Target Range (G-10) for aircraft and artillery utilizing improvised targets, generally vehicle hulls.

## 4. AUTHORIZED FIRING

- a. Aircraft: All aircraft armament not exceeding net explosive weight of 250 pounds TNT equivalent subject to provisions of paragraph 402.4 on blast focus prediction.
  - b. See Section IV, paragraph 412 for CAS operations
  - c. Artillery: All types of ammunition.
- d. Mortars may be used to mark targets ( ${\rm HE}$ , illumination and  ${\rm WP}$ ).
  - e. TOW missile: Heat and practice.
- 5. RANGE LIMITS. That area bounded by GC 943361 to 941336 to 920341 to 907336 to 896361 to 943361. The range is bordered by a 1000 yard buffer zone.

#### 6. COMMUNICATIONS

- a. The officer in charge of firing or the forward air controller (ground) of air operations will maintain dual communications (radio and dial phone) with Base Range Control during all firing.
- b. Maintain dual communications (dial phone and radio) between OP-2 and OP-5 and the forward aircraft control party or the artillery forward observer.
  - c. See Section IV, paragraph 416.
- d. Dial telephones located at OP-2 (5296) and OP-5 (1431 emergency phone located on Sneads Ferry Road).
- 7. KNOWN INTERFERENCE. Track vehicles using the tank trails in the G-10 Buffer Zone.
- 8. <u>SAFETY EQUIPMENT</u> Scarlet streamers or red flashing lights and binoculars.

## 9. RANGE PERSONNEL

20

- a. For air operations a forward air controller, who serves as officer in charge of firing, and a forward air control party (TACP).
- b. For artillery, officer in charge of firing, range safety officer, position safety officers and forward observers as required.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver at all gun positions when firing artillery, mortars, or TOWS.

# 11. SPECIAL INSTRUCTIONS

#### a. General

- (1) Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers. OP-2 (GC 914373), OP-5 (GC 895344) or OP-3 (GC 927368).
- (2) Firing will cease if streamers or flashing lights are lowered or extinguished for any reason.
- (3) The blast focus forecast for the firing date will determine whether firing will or will not be permitted and the maximum amount of explosive permitted. See Section IV of this order for blast focus discussion.
  - b. Air Operations, See Section IV para 402.4 of this order.
- (1) A line from GC 943361 to 941336 to 920341 to 907336 to 896361 to 943361 is designated as a permanent bombline beyond which aircraft ordnance may not be impacted.
- (2) Close air support operations will be under the positive control of a forward air control party (FACP).
- (3) Night Close Air Support missions may be conducted with or without illumination but visual contact will be maintained between FAC ground and aircraft delivering ordnance.
- (4) Off-set radar bombing utilizing the RABFAC system only may be conducted in the G-10 Area. This must be conducted when the pilot has VFR capabilities and the FAC operating from OP-2 or OP-5.
- (5) The forward air controller will be positioned in the vicinity of OP-2, OP-3 or OP-5.

## (6) Forward Air Controller

- (a) Any air operation involving aircraft live firing or bombing, close air support, paradrops or combined airground exercises requires positive control of aircraft by a forward air controller. The term forward air controller is used synonymously with officer in charge of firing regarding these safety regulations.
- (b) Forward air controllers are required to report to the Range Control Duty Officer for the range check-out briefing normally given to officers in charge of firing.
- (c) Positive communications are required from the forward air controller to Base Range Control. Dual communications are required if live firing or bombing is conducted. See paragraph 416 and individual range regulations listed in Appendix B.
- c. Artillery: Field artillery units authorized to impact into the G-10 Impact Area must coordinate well in advance of the firing exercise with Base Range Control.
- d. TOWS are authorized to fire from OP-5. Prior to firing the TOW missile the officer in charge of firing will insure the following safety precautions have been taken:
- (1) Post a sentry to stop traffic at the junction of highway 172 and Lyman Road (grid coordinate 955368).
- (2) Post a sentry to stop traffic at the junction of Lyman Road and Sneads Ferry Road (grid coordinate 872386).

- 1. RANGE. I-1
- 2. LOCATION. GS 8427

- a. Rifle and pistol range.
- b. Sixteen fixed targets with firing points at 15 and 25 yards.

## 4. AUTHORIZED FIRING

- a. Weapons Cal .22 rifles, pistols, revolvers and shotguns.
- b. Ammunition Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 842275

Azimuth: 108° G

b. Left Flank Coordinates: 843277

Azimuth: 1110 G

6. COMMUNICATIONS. Dial telephone (7328) located nearby at Combat Engineer School.

## 7. KNOWN INTERFERENCE

- a. Water and airborne traffic in Traps Bay Sector of New River.
  - b. Helicopter operations in TLZ Bluebird.
  - c. Troops maneuvering in IC Area.

# 8. <u>SAFETY EQUIPMENT</u>

- a. Scarlet streamer.
- b. Binoculars.
- 9. RANGE PERSONNEL. Officer in charge of firing and one range guard.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

- a. Firing will be conducted only when visibility exists between the firing line and Cedar Point (852258).
- b. Fly scarlet streamer prior to firing until termination.
- c. Maintain range guard on tower while firing to warn officer in charge of firing of the approach of water or airborne traffic.
- d. Range guard will be equipped with binoculars to observe the area from  $45^{\rm o}$  clockwise to  $220^{\rm o}\,.$
- e. Recreational firing is authorized only if formally scheduled. See Section II.
- f. Officers in charge of firing may accomplish range check in/out by telephone to Range Control Duty Officer, phone 3064.

- 1. RANGE I-2
- 2. LOCATION. GC 845282

- a. Demolitions and land mines instruction range.
- b. Improvised targets and mine areas.
- 4. <u>AUTHORIZED FIRING</u> Demolitions, linear rocket M68Al (inert) and land mines not exceeding 50 pounds net TNT equivalent per shot.
- 5. RANGE LIMITS From GC 845282 with a firing Azimuth of  $141^{\circ}$  to a range of 2,000 yards and 1,000 yards each side of Azimuth.

#### 6. COMMUNICATIONS

- a. Dial telephone (7328) located nearby at Combat Engineer School.
  - b. See Section IV.

# 7. KNOWN INTERFERENCE

- a. Low flying aircraft.
- b. Water traffic.

# 8. <u>SAFETY EQUIPMENT</u>

- a. Scarlet streamers.
- b. Student safety equipment as prescribed by the Commanding Officer, Marine Corps Engineer School.
- 9. RANGE PERSONNEL An officer in charge of firing and one range guard, and such other range safety personnel as prescribed by the Commanding Officer, Marine Corps Engineer School.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

- a. Fly scarlet streamer at entrance road to range while firing.
- b. Officer in charge must be able to visually verify that Traps Bay is clear prior to firing the Inert line charge, also take appropriate precautions to guard against accidental detonation of electric blasting caps by extraneous electricity.

- c. This range is assigned to the Commanding Officer, Marine Corps Engineer School on a priority of use basis. Other units, after scheduling this range with Training Facilities Branch, contact the Commanding Officer, MCES for additional instructions.
- d. Range check out/in may be accomplished by telephone to Range Control Duty Officer at 3064.

- 1. RANGE J-2
- 2. LOCATION GS 8230

- a. Battle sight.
- b. Fixed target frames at 15 yards.

# 4. <u>AUTHORIZED</u> FIRING

- a. Weapons Service rifles, shotguns and pistols.
- b. Ammunition Service

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 827306

Azimuth: 3230 G

b. Left Flank Coordinates: 826305

Azimuth: 3090 G

## 6. COMMUNICATIONS

- a. Dial telephone (7236) available on range.
- b. See Section IV.
- 7. KNOWN INTERFERENCE. Water or airborne traffic in Grey Point Sector of New River.
- 8. SAFETY EQUIPMENT Scarlet streamers.
- 9. RANGE PERSONNEL Officer in charge of firing and one range guard.
- 10. MEDICAL. Corpsman with first aid equipment and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

- a. Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers.
- b. Maintain range guard with radio or land line in defilade at the waters edge, (824314) while firing in order to warn the

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Officer in Charge of Firing of the approach of water or aircraft traffic into the Surface Danger Zone. CAUTION: The range guard's position is within the surface danger zone. Sentries will be instructed to remain in defilade below the banks of New River until ordered out by the officer in charge of firing.

c. Targets will be provided by the using unit.

- 1. RANGE K-211
- 2. LOCATION GS 7835

21

- a. M203 Grenade Launcher Range
- b. Vehicle hulls.

# 4. AUTHORIZED FIRING

- a. Weapons M203 Grenade Launcher.
- b. Ammunition 40mm Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 784354

Azimuth: 149° G

b. Left Flank Coordinates: 784353

Azimuth: 149° G

## 6. COMMUNICATIONS

- a. Dial telephone (0752) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE Range 212
- 8. SAFETY EQUIPMENT. Scarlet streamers/flashing red lights.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.

- a. No down-range movement is permitted unless accompanied by  $\ensuremath{\mathsf{EOD}}$  personnel.
- b. Report the number and location of all duds, including unexploded practice rounds to the Range Duty Officer (3064) upon completion of firing.

- 1. RANGE K-212
- 2. LOCATION GS 7835

- a. Infiltration and individual movement range.
- b. 32 electrically operated demolitions pits controlled from tower.

## 4. AUTHORIZED FIRING

- a. Weapons Machine guns simulated.
- b. Ammunition 1/4 lbs demolitions.

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 780351

Azimuth: 133° G

b. Left Flank Coordinates: 781353

Azimuth: 140° G

#### 6. COMMUNICATIONS

- a. Dial telephone (0752) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. Range K-211 and Range K-402.
- 8. <u>SAFETY EQUIPMENT</u>. Scarlet streamers.

## 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One range operator is provided by Training Facilities Branch.
- $10.\ \underline{\text{MEDICAL}}$  Medical corpsman and military safety vehicle with driver.

- a. Range must be checked out 24 hours prior to exercise.
- b. Using unit is responsible for requesting engineer support for emplacement of demolitions.

- 1. RANGE. K-301
- 2. LOCATION GS 7836

- a. M72, M202, LAAW firing range.
- b. Tank and amtrac hulls.

#### 4. AUTHORIZED FIRING

- a. Weapons M72, M202 rocket launchers and 60/81mm mortars.
- b. Ammunition LAAW, multi-shot, service and practice 60/81mm mortars (illumination only).

#### 5. RANGE LIMITS

- a. Right Flank Coordinates: 787360
  - Azimuth: 153° G
- b. Left Flank Coordinates: 788361

Azimuth: 141° G

## 6. COMMUNICATIONS

- a. Dial telephone (0852) available on range.
- b. See Section IV.
- c. Dual communications are required.
- 7. KNOWN INTERFERENCE None
- 8. SAFETY EQUIPMENT Scarlet streamer, red flashing light.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.

- a. Personnel not engaged in firing shall remain in or to the rear of the bleachers.
  - Direct firing down range only.
  - c. Down-range movement is prohibited.

- 1. RANGE K-302
- 2. LOCATION GS 7935

- a. Battlesight and field firing range.
- b. Point and area type targets. Targets at 1000 inches for battlesight zeroing.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, auto-rifles.
- b. Ammunition Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 792359

Azimuth: 1870 G

b. Left Flank Coordinates: 793359

Azimuth: 170° G

## 6. COMMUNICATIONS

- a. Dial telephone (0561) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. <u>KNOWN INTERFERENCE</u> None
- 8. SAFETY EQUIPMENT Scarlet streamer.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.
- 11. SPECIAL INSTRUCTIONS. Direct firing down range only is permitted.

- 1. RANGE K-303
- 2. LOCATION GS 7935

- a. Basic technique of fire and mortar field firing range.
- b. Point and area targets.

#### 4. AUTHORIZED FIRING

- a. Weapons Service rifles, auto-rifles, 60/81mm mortars.
- b. Ammunition Cal. .30,  $7.62 \, \mathrm{mm}$  and  $5.56 \, \mathrm{mm}$  service ammunition,  $60/81 \, \mathrm{mm}$ , HE, WP and illumination and demolitions (1/4 lb. blocks).

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 796359

Azimuth: 1810 G

b. Left Flank Coordinates: 797359

Azimuth: 1780 G

#### 6. COMMUNICATIONS

- a. Dial telephone (0561) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE None
- 8. SAFETY EQUIPMENT Scarlet streamers or flashing red lights will be located on both ends of the firing line whenever firing is being conducted.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. <u>MEDICAL</u> Medical corpsman and military safety vehicle with driver.

- a. Direct firing down range only.
- b. Using unit is responsible for requesting engineer support for emplacement of demolitions.
  - c. No down range movement unless accompanied by EOD personnel

- 1. RANGE K-305
- 2. LOCATION GS 7935

- a. Infantry Weapons Demonstration Range.
- b. Tank and amtrac hulls at varying ranges from 300 to 1000 yards.

## 4. AUTHORIZED FIRING

- a. Weapons All infantry weapons except Cal. .50 machine gun, 106mm recoilless rifle, and hand grenade.
  - b. Ammunition Service

## 5. RANGE LIMITS

a. Right Flank Coordinates: 799359

Azimuth: 179° G

b. Left Flank Coordinates: 801359

Azimuth: 1770 G

## 6. COMMUNICATIONS

- a. Dial telephone (0661) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. None
- 8. SAFETY EQUIPMENT Scarlet streamers will be flown from range pole during daylight firing and red flashing lights from pole during night firing.
- 9. RANGE PERSONNEL Officer in charge of firing
- 10. MEDICAL. Medical corpsman and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

a. When special demonstrations are conducted and firing azimuths increased, Mill Creek Road and Range K-309, K-315, K-319, K-321, K-322, K-323, K-325 and all 200 and 400 series ranges will be evacuated.

- b. There will be no cross-range firing except when the FPF is conducted and only then on an azimuth which will provide a beaten zone within the authorized fan.
- c. Insure that all personnel do not fire 5.56mm Cal. or 7.62mm at the tank located 300 meters down range centered.
- d. Insure that the sights on 81mm/60mm mortars are checked with a gunner's quadrant.
- e. Insure that the minimum ranges for weapons comply with the following:
  - (1) 60mm mortars 300 meters.
  - (2) 81mm mortar 500 meters.
- f. Insure that the maximum range employed for any weapon does not exceed the limits of observation.
- g. Inspect demo pits ensuring charges do not exceed specified size and that there is no debris or solid objects which could create a missile hazard.
- h. Charges in the demo pits will not exceed 1/4 pound TNT.
- i. Spectators not wearing steel helmets will be seated far back in the stands beneath the overhead cover.
- j. When the Infantry Weapons Demonstration or the night FPF are to be conducted, the safety officer will report to the range one hour prior to scheduled starting time of the class in order that the weapons can be emplaced and test fired.
- k. No down-range movement is permitted unless accompained by EOD personnel.
- 1. Report all duds to the Range Control Duty Officer. (3064)
- m. If the duds present a hazard to personnel on the firing line, cease fire and request EOD assistance.

1. RANGE K-309

2. LOCATION GS 8035

## 3. DESCRIPTION

- a. Machine gun range.
- b. "E" Type silhouette targets.

## 4. AUTHORIZED FIRING

- a. Weapons Service rifles, M60 MG, shotguns and M72 rocket launcher.
- b. Ammunition Service M73 rocket (sub caliber only), 60/81mm mortars (illumination only).

## 5. RANGE LIMITS

a. Right Flank Coordinates: 805360

Azimuth: 2070 G

b. Left Flank Coordinates: 806359

Azimuth: 180° G

## 6. COMMUNICATIONS

- a. Dial telephone (0661) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE Range K-305 during special demonstrations.
- 8. <u>SAFETY EQUIPMENT</u> Scarlet streamers will be flown from range pole during daylight firing and red flashing lights from pole during night firing.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10.  $\underline{\text{MEDICAL}}$  Medical corpsman and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

a. The safety officer will accompany each squad down range during fire/movement exercises.

- b. The safety officer will be equipped with an appropriate signalling device to effect CEASE FIRE in the event of danger or emergency.
- c. During fire and movement exercises, each fire team will be accompanied by a qualified SNCO.
- d. Lanes and limits of fire for each firing point will be pointed out and supervised during the entire course of fire.
  - e. Direct fire down-range only.
- f. Steel helmets will be worn by all personnel going down range.

- 1. RANGE K-315
- 2. LOCATION. GS 8075

- a. Combat Field Firing.
- b. Twelve electro-mechanical "pop-up" targets.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, auto-rifles, shotguns and ristols.
- b. Ammunition Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 808359

Azimuth: 1880 G

b. Left Flank Coordinates: 809358

Azimuth: 168° G

#### 6. COMMUNICATIONS

- a. Dial telephone (0775) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE Range K-305 and K-309 when special demonstrations are being conducted.
- 8. SAFETY EQUIPMENT Scarlet streamers

# 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One operator is provided by Training Facilities Branch.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.

## 11. SPECIAL INSTRUCTIONS

- a. No person will be allowed down range.
- b. Range must be checked out 24 hours prior to exercise.

- 1. <u>RANGE</u> K-317
- 2. LOCATION GS 8135

- a. Close Combat Range.
- Twelve electro-mechanical "pop-up" targets.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, auto-rifles, shotguns, and pistols.
- b. Ammunition Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 810358

Azimuth: 210° G

b. Left Flank Coordinates: 811358

Azimuth: 1970 G

#### 6. COMMUNICATIONS

- a. Dial telephone (0775) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. Range K-305 when special demonstrations are being conducted.
- 8. SAFETY EQUIPMENT. Scarlet streamer.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One range operator is provided by Training Facilities Branch.

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10. MEDICAL. Medical corpsman and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

a. No down-range movement is authorized.

- $\ensuremath{\text{b.}}$  A prescribed distance of five meters will be maintained on firing line.
  - c. Range must be checked out 24 hours prior to exercise.

- 1. RANGE K-319
- 2. LOCATION GS 8135

- a. Field Firing Range.
- b. Type "E" and "F" and improvised targets.

#### 4. AUTHORIZED FIRING

- a. Weapons M-60 machine guns, rifles, automatic rifles, shotguns and pistols.
  - b. Ammunition 7.62mm and 5.56mm.

## 5. RANGE LIMITS

- a. Right Flank Coordinates: 813359
  - Azimuth: 177° G
- b. Left Flank Coordinates: 814358
  - Azimuth: 1730 G

#### 6. COMMUNICATIONS

- a. Dial telephone (0875) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE Range K-305 when special demonstrations are being conducted.
- 8. SAFETY EQUIPMENT Scarlet streamers.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.
- 11. SPECIAL INSTRUCTIONS None

- 1. RANGE K-321
- 2. LOCATION GS 8135

- a. Transition range.
- b. Eight electro-mechanical targets located at varied distances from a fixed firing line.

# 4. AUTHORIZED FIRING

- a. Weapons Service rifles, automatic rifles, 60mm and 81mm mortars (illumination only), shotguns and pistols.
- b. Ammunition 7.62mm and 5.56mm service ammunition, 60/81mm illumination only.

# 5. RANGE LIMITS

a. Right Flank Coordinates: 818359

Azimuth: 226° G

b. Left Flank Coordinates: 819358

Azimuth: 222° G

## 6. COMMUNICATIONS

- a. Dial telephone (0875) available on range.
- b. See Section IV.
- Dual communications required.
- 7. KNOWN INTERFERENCE. Range K-305 when special demonstrations are being conducted.
- 8. SAFETY EQUIPMENT Scarlet streamers will be flown from range pole during daylight firing and red flashing lights from pole during night firing.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One range operator is provided by Training Facilities Branch.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

- a. No down-range movement is authorized.
- b. Range must be checked out 24 hours prior to exercise.

- 1. RANGE K-322
- 2. LOCATION GS 8135

- a. Moving Realistic Target Range.
- b. One moving target on fixed monorail.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, pistols and shotguns.
- b. Ammunition Service.

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 819356

Azimuth: 245° G

b. Left Flank Coordinates: 820355

Azimuth: 215° G

## 6. COMMUNICATIONS

- a. Dial telephone (0656) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE None
- 8. <u>SAFETY EQUIPMENT</u>. Scarlet streamers.

#### 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One range operator is provided by Training Facilities Branch.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

a. The electrical power switch for this range will be locked in the "OFF" position at all times except when the range is in actual use.

- b. Automatic fire is not permitted.
- c. No down-range movement is authorized
- d. Range must be checked out 24 hours prior to exercise.

- 1. RANGE K-323
- 2. LOCATION GS 8235

- a. M203 Grenade Firing Range.
- Improvised targets located at 100 yards.

#### 4. AUTHORIZED FIRING

- a. Weapons M203 grenade launcher.
- b. Ammunition 40mm Service.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 821356

Azimuth: 2230 G

b. Left Flank Coordinates: 821355

Azimuth: 2180 G

# 6. COMMUNICATIONS

- a. Dial telephone (0656) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE K-305 and K-325 when special demonstrations are being conducted.
- 8. SAFETY EQUIPMENT. Scarlet streamer.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman and military safety vehicle with driver.

- a. No down-range movement is permitted unless accompanied by EOD personnel.
- b. Report the number and location of all duds, including unexploded practice rounds, to the Base Range Duty Officer (phone 3064) upon completion of firing.

- 1. RANGE K-325
- 2. LOCATION GS 8235
- 3. DESCRIPTION

M202 and M72 (LAAW) Field Firing Range.

## 4. AUTHORIZED FIRING

- a. Weapons M72, M202 rocket launcher.
- b. Ammunition Service and practice.

## 5. RANGE LIMITS

a. Right Flank Coordinates: 822355

Azimuth: 235° G

b. Left Flank Coordinates: 823354

Azimuth: 235° G

#### 6. COMMUNICATIONS

- a. Dial telephone (0556) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. Range K-305 and K-323 during special demonstrations.
- 8. SAFETY EQUIPMENT Scarlet streamer.
- 9. RANGE PERSONNEL. Officer in charge of firing.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

- a. Minimum range is 200 meters.
- b. Place barriers across road to insure that traffic does not enter the range danger area.
- c. Insure all persons not engaged in firing are in the bleacher safety area.
- d. No down-range movement is permitted unless accompanied by  $\ensuremath{\mathsf{EOD}}$  personnel.

- 1. RANGE. K-326
- 2. LOCATION. GS 8136
- 3. <u>DESCRIPTION</u> EOD disposal site.
- 4. <u>AUTHORIZED FIRING</u> Authorized for use by Base EOD and MAG 29 EOD Teams for the disposal of unserviceable ammunition, dismantaling and inerting or ordnance.
- 5. RANGE LIMITS GS 8136
- 6. COMMUNICATIONS See Section IV, paragraph 416.
- 7. KNOWN INTERFERENCE Low-flying aircraft and small crafts in Farnell Bay Sector.

## 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Warning siren.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

- a. Fly red flag and maintain barricade at entrance to site from Rhodes Point Road (815360) while site is in use.
- b. Sound ten second warning on siren one minute prior to shot.
- c. The maximum explosive weight authorized by reference (q) is subject to provisions of paragraph 402.4 on blast focus prediction.

- 1. RANGE K-402
- 2. LOCATION GS 7734

- a. Fire and movement range.
- b. Improvised targets

# 4. AUTHORIZED FIRING

- a. Weapons Rifle, auto-rifle, M72 rocket launchers, M-60 machine guns.
- b. Ammunition Service, M73 (sub caliber only), demolitions 1/4 lb blocks).

## 5. RANGE LIMITS

a. Right Flank Coordinates: 777348

Azimuth: 123° G

b. Left Flank Coordinates: 777349

Azimuth: 124° G

#### 6. COMMUNICATIONS

- a. Dial telephone (0855) available on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE Range K-305 and K-407 during special demonstrations.
- 8. SAFETY EQUIPMENT Scarlet streamers will be flown from range pole during daylight firing and red flashing lights from pole during night firing.
- 9. RANGE PERSONNEL Officer in charge of firing and range safety officer as required for fire and maneuver ranges.
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

## 11. SPECIAL INSTRUCTIONS

a. Demolitions for simulated supporting fires are limited to 1/4 lb TNT/equivalent per charge.

- b. No maneuver permitted when Range K-407 is in use.
- c. The safety officer will be equipped with an appropriate signalling device to effect an immediate CEASE FIRE in the event of danger or emergency.
- d. Lanes and limits of fire for each firing point will be pointed out and supervised during the entire course of fire.
  - e. Direct fire down-range only.

- 1. RANGE K-405
- 2. LOCATION GS 7734
- 3. DESCRIPTION Hand grenade range with six throwing pits.
- 4. <u>AUTHORIZED FIRING</u>. WP, HE Hand grenades and practice hand grenades (in practice area only).

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 775349

Azimuth: 246° G

b. Left Flank Coordinates: 775347

Azimuth: 240° G

#### 6. COMMUNICATIONS

- a. Dial phone (0666) on range.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE None
- 8. SAFETY EQUIPMENT Scarlet streamers
- 9. RANGE PERSONNEL Officer in charge of firing and one range guard.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

- a. Insure that personnel not required to be in throwing pits are under cover of the troop shelter prior to authorizing live fire.
- b. The Range Control Duty Officer will alert an EOD team to be on stand-by while live fire exercises are in progress.
- c. When a grenade fails to function the officer in charge of firing will:
  - (1) Cease all grenade throwing.

(2) Assure all personnel remain under cover until the dud has been cleared by EOD personnel.

24 .

- (3) Notify Range Control Duty Officer of the dud.
- (4) After dud has been cleared, request permission from the Range Control Duty Officer to continue throwing grenades.
- d. Duds will not be marked, handled, moved or destroyed except by EOD officers/technicians. A 30 minute wait period will be observed by EOD personnel prior to clearing a dud grenade, after the dud grenade has been thrown.
- e. Practice grenades will not be used on the live grenade range. A practice grenade area is located on the entrance road from Sneads Ferry Road. Authority to use Range F-6 includes the practice grenade area.
- f. Although there are six (6) throwing pits, the officer in charge of firing will insure that not more than one (1) grenade is thrown at a time.
- g. Hand grenades will not be thrown down-range after one hour prior to sunset.

- 1. RANGE K-406A
- 2. LOCATION GS 7734
- 3. DESCRIPTION 1000 inch immovable targets.

#### 4. AUTHORIZED FIRING

- a. Weapons Rifles, auto-rifles, shotguns and pistols.
- b. Ammunition Service

#### 5. RANGE LIMITS

a. Left Flank Coordinates: 777346

Azimuth: 95° G

b. Right Flank Coordinates: 777343

Azimuth: 137 G

## 6. COMMUNICATIONS

- a. Dial telephone (0755) available on range.
- b. See Section IV.
- c. Dual communications required.

## 7. KNOWN INTERFERENCE

- a. Range K-305 when special demonstrations are being conducted.
- b. This range cannot be used when Range K-406B or K-407 is in use.
- 8. <u>SAFETY EQUIPMENT</u> Scarlet streamer.
- 9. RANGE PERSONNEL Officer in charge of firing
- 10. MEDICAL Medical corpsman with military safety vehicle with driver.

- 1. RANGE. K-406B
- 2. LOCATION GS 7734

- a. Demolition range.
- b. Ten crimping booths.
- 4. <u>AUTHORIZED FIRING</u> Demolition charges not exceeding 1/4 lb. of TNT equivalent per shot. "Claymore mine."

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 777343

Azimuth: 137° G

b. Left Flank Coordinates: 777346

Azimuth: 950 G

#### 6. COMMUNICATIONS

- a. Dial telephone (0755) available on range.
- b. See Section IV.
- c. Dual communications required.

#### 7. KNOWN INTERFERENCE

- a. Range K-305 when special demonstrations are being held.
- b. This range cannot be used when Range K-407 or K-406A is in use.
- 8. SAFETY EQUIPMENT Scarlet streamers.
- 9. RANGE PERSONNEL Officer in charge of firing.
- 10.  $\underline{\text{MEDICAL}}$  Medical corpsman with military safety vehicle with driver.

## 11. SPECIAL INSTRUCTIONS

- a. A demolition instructor will accompany each detail of students into the demolition pit during the placing of the demolitions.
- b. No more than 16 students will be in demolition pit at any one time.

- c. All misfires will be cleared and disposed of by the Primary Demolition Instructor.
- d. Pits will be physically inspected by a safety officer who will ensure that they are clear of misfires prior to bringing troops into pits.
- e. During the application phase all students will be under the direct control of an instructor or platoon commander at all times.
- f. The M-18 claymore mine will be fired in strict accordance with the provisions of FM 5-34 and current TM.

- 1. RANGE K-407
- 2. LOCATION GS 7734

#### 3. DESCRIPTION

- a. Individual Quick Reaction Range.
- b. SARTS targets, machine gun, artillery and demolitions simulators, moving targets individually controlled electronically.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles and pistols. No automatic fire.
- b. Ammunition Service.

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 778341

Azimuth: 1110 G

b. Left Flank Coordinates: 777346, 778343

Azimuth: 94° G

#### 6. COMMUNICATIONS

- a. Dial telephone (0855) available on range.
- b. Dual communications required.
- c. See Section IV.

#### 7. KNOWN INTERFERENCE

- a. Ranges K-212, K-402, K-406 and K-408 must not be in operation when range is being used.
- b. Each phase must be completed before moving to another phase.

#### 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Warning siren.

# 9. RANGE PERSONNEL

a. Officer in charge of firing.

- b. Two road guards.
- c. Three (3) operators.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

- a. Range K-407 differs from other ranges because it has no fixed firing line. Individuals fire from varied positions at electronically activated (surprise) targets while following a prescribed course through the range. Range safety is complicated by a lack of visibility over the entire range and the inability of one person to supervise all phases of the range. Altering the configuration of the range to provide control and observation by one person would negate training effectiveness. Therefore, special safety instructions for this range have been established.
- b. Personnel required for the operation of range K-407 are:
- (1) Range operators assigned by Marine Corps Base Training Facilities who performs the following duties:
- (a) Ensures that a copy of these instructions is conspicuously posted on the range at all times.
- (b) Delivers a copy of these instructions to the designated range safety officer prior to briefing using unit.
- (c) Briefs using unit on safety regulations, range layout and type equipment installed on the range.
  - (d) Activates targets and simulators.
- (e) Prior to live firing ensure that two-way communications provided by using unit exists between the range control point and Marine Corps Base Range Control. An immediate cease fire shall be initiated in the event of a communications failure.
- (2) Range safety officer and assistant range safety officer assigned by the using unit will carry out all normally assigned range safety officer duties and ensure that special safety instructions for range K-407 are complied with at all times.
- (3) A minimum of two instructors/safety NCO's assigned by the using unit, perform the following duties:

- (a) Control movement of each element through course, ensuring that the element remains intact and there is no rearward movement except by the designated return trail upon completion of the course.
- (b) Ensure the element complies with range procedures and does not create a hazard.
- (c) Order immediate cease fire if the safety siren is sounded or by sounding whistle in the event a dangerous situation arises or injury to personnel occurs.
- (d) Notify range safety officer/range control point of any potentially dangerous situation not covered by instructions.

#### c. Safety instructions:

- (1) The range safety officer, assistant range safety officer and instructors/safety NCO's will be equipped with a whistle.
- (2) A firing element will consist of no more than four individuals.
- (3) Firing elements will proceed through the course singly. No element will be cleared onto the range until the preceding element has cleared the range.
- (4) Each element will be accompanied by at least one safety officer and one instructor/safety NCO.
- (5) Only the point man of each element will load his weapon. All other members will carry ammunition in loaded magazines secured in pouches attached to their belts.
- (6) The point man will take the target under fire upon contact. The other members of the element will not fire until they have come on line with the targets and have been given a fire command by the element leader.
- (7) All movement will be forward (clockwise) through the course.
- (8) The instructor/safety NCO will control pace, route and firing direction for the element.
- (9) The control point radio will be monitored at all times.

- (10) In case of emergency requiring an immediate cease fire, the using unit will be responsible for sounding the siren. The siren is located on a telephone pole adjacent to the range flag pole.
  - d. Refer to Section V for SARTS employment.

- 1. RANGE K-408
- 2. LOCATION GS 7734

#### 3. DESCRIPTION

- a. Close Combat Range.
- b. Electro-mechanical "pop-up" targets.

# 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, shotguns and pistols.
- b. Ammunition Service.

# 5. RANGE LIMITS

a. Right Flank Coordinates: 775339

Azimuth: 1110 G

b. Left Flank Coordinates: 776341

Azimuth: 1140 G

## 6. COMMUNICATIONS

- a. Dial telephone (0855) available on range.
- b. See Section IV.
- Dual communications required.

# 7. KNOWN INTERFERENCE

- a. Range K-305 when special demonstrations are being conducted.
  - b. This range cannot be used when Range K-407 is in use.
- 8. <u>SAFETY EQUIPMENT</u>. Scarlet streamers.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. One operator is provided by Training Facilities Branch.

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- 10. MEDICAL. Medical corpsman with military safety vehicle with driver.
- 11. SPECIAL INSTRUCTIONS None

- 1. RANGE L-5
- 2. LOCATION GS 7330

#### 3. DESCRIPTION

- a. Combat Rifleman Range.
- b. Electro-mechanical "pop-up" targets.

#### 4. AUTHORIZED FIRING

- a. Weapons Rifles, automatic rifles, shotguns,
   and pistols.
- b. Ammunition Service (BALL); smoke grenades. CAUTION: Armor piercing ammunition will not be used on this range.

#### 5. RANGE LIMITS

a. Right Flank Coordinates: 736309

Azimuth: 28° G

b. Left Flank Coordinates: 731311

Azimuth: 22° G

#### 6. COMMUNICATIONS

- a. Dial telephone (3518) available on range.
- b. Internal land line communications between towers 1 and 2.
- c. Dual communications required.
- d. See Section IV.
- 7. KNOWN INTERFERENCE. Troop movement in maneuver sub-areas ME, MD, MF, LA, LB.

# 8. SAFETY EQUIPMENT

- a. Scarlet streamers.
- b. Siren.

# 9. RANGE PERSONNEL

- a. Officer in charge of firing.
- b. Position safety officers will be designated by the officer in charge of firing.

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- c. Range operators are provided by Training Facilities Branch.
- 10. MEDICAL Corpsman with first aid equipment and military safety vehicle with driver.

# 11. SPECIAL INSTRUCTIONS

- a. Fly scarlet streamer from flagpole at range entrance from Dixon Road prior to firing until termination.
- b. Insure that range gates at the following positions are secured, GC 727353, 752363, 765349, 729323.
- c. Position range guards at entrance from Dixon Road and at trail entrance from Highway 17 (GS 723329) 250 yards north of Dixon Fire Tower prior to firing. The sentry at Dixon Tower trail will be instructed to block all traffic attempting to enter the trail.
- d. Position road block on range road at entrance to Tower #1 to channel all incoming traffic directly to the line of departure.
- e. Prior to commencement of live fire training, conduct a down range reconnaissance to the fire limit line to insure that the area is free of participating troops or trespassers.
- f. Five minutes prior to firing sound two five-second warnings on the range siren to alert tower personnel and participants. Thereafter, the siren will be used only for the purpose of signalling a cease fire command.
- g. <u>CAUTION</u>. Tower #2 is inside the range fan. Operating and control personnel will be positioned prior to live firing, and instructed to remain inside the armored control booth until authorized to leave.
- h. A "fire-limit" line is placed across the direction of attack 300 meters down range from Tower #2. Live fire will be terminated prior to crossing the fire limit line.
- i. This range is designed for use in teaching advanced tactics at the squad, platoon, and company level. It consists of three objectives within a fire and maneuver area approximately 850 meters in depth. Added realism is obtained through the use of ten machine gun simulators and fifteen artillery/mortar simulators.

- j. Base Training Facilities Branch will install; service and maintain all training devices, controls, tower and range warning signs. In addition, Base Training Facilities Branch will position operators at Control Towers #1 and #2 for the purpose of operating training devices in such sequence as the officer in charge of firing may direct.
- k. Training devices will not be used as targets for smoke grenades or practice rifles grenades.
  - 1. Firing by an envelopment force is not permitted.

- 1. RANGE. Bombing and Target Range (BT-3)
- 2. LOCATION GS 9429 through 9734. Brown's Island, 34°38'N, 72°12'W; which is seven miles SW of Swansboro, N.C.

#### 3. DESCRIPTION

- a. This range is commonly referred to as the N-1 Impact Area and the Brown's Island Target complex.
- b. Bombing and Target Range (BT-3) for aircraft and artillery utilizing improvised targets, generally vehicle hulls.
- c. BT-3 is a ground weapons impact area for ranges G-5 and G-7.
  - d. Adjacent to the Intracoastal Waterway.

#### 4. AUTHORIZED FIRING

- a. Aircraft All aircraft armament not exceeding net explosive weight of 250 pounds TNT equivalent.
  - b. See Section IV paragraph 412 for CAS operations.
- c. Ground Weapons All weapons and ammunition authorized for ranges G-5, G-5A and G-7.
- d. Mortars may be used to mark targets. (HE, illumination and WP).
  - e. Artillery All types of ammunition.
  - f. TLZ GOOSE is authorized aircraft rearming landing zone.
- 5. RANGE LIMITS. This range extends northeast from the junction of north/south gridline 94 at Onslow Beach, along the beach line to Bear Creek Inlet; north-northwest along Bear Creek to a point 400 yards northwest of the Intracoastal Waterway; west-southwest on a line 400 yards north of the parallel to Intracoastal Waterway to Freeman's Creek; then south to the point of origin. The range is bordered by a 1000 yard buffer zone on the north and west side. A 1000 yard no-fire zone extends inboard from Bear Creek.

#### 6. COMMUNICATIONS

a. The following dial phones are available:

Brown's Tower (7252); Onslow North Tower (7441); Bear Creek Tower (1742).

- b. The officer in charge of firing or the forward air controller (ground or air operations will maintain dual communications (radio and wire) with Base Range Control during all firing.
- c. Maintain dual communications (MAG line and radio) between Bear Creek and Onslow Beach North Towers and the forward air control party or the artillery forward observer.
  - d. See Section IV, paragraph 416.
- 7. KNOWN INTERFERENCE. Waterborne traffic in the Intracoastal Waterway or seaward from Brown's Island to a maximum range of 25,000 yards and high angle and flat trajectory weapons firing from G-5 and G-7.

# 8. SAFETY EQUIPMENT

- a. Scarlet streamers or red flashing lights.
- b. Binoculars.

#### 9. RANGE PERSONNEL

- a. For air operations a forward air controller, who serves as officer in charge of firing, and a forward air control party (FACP).
  - b. Two range guards to man lookout towers.
- c. For artillery, officer in charge of firing, range safety officer, position safety officers and forward observers as required.
- 10. <u>MEDICAL</u>. Corpsman with first aid equipment and military safety vehicle if firing artillery or mortars at the firing position.

#### 11. SPECIAL INSTRUCTIONS

#### a. General

- (1) Prior to commencing fire until termination fly scarlet streamer during daylight hours, display red flashing light from sunset until sunrise at flagpoles and on top of the range towers.
- (2) Position range guards with radio and binoculars at least one half hour prior to the aerial search to serve as air/water sentries in Bear Creek and Onslow Beach North Towers, instructed to promptly notify the officer in charge of firing (or forward air controller) before a vessel or

aircraft not engaged in the exercise penetrates the surface danger zone. Sectors of observation are: Bear Creek Tower 65 mils to 190 mils and Onslow Beach North Tower 55 mils to 270 mils.

- (3) Firing will cease if streamers or flashing lights are lowered or extinguished for any reason.
- (4) Projectiles will not be fired to impact within 300 yards of the Intracoastal Waterway.
- (5) The using unit will insure that an aerial search has been made of the target complex, Intracoastal Waterway, marshes, dunes and ocean areas within the surface danger zone one hour prior to firing to insure that the area is safe. The forward air controller may utilize aircraft as appropriate in conducting the aerial search immediately prior to aircraft firing exercises.
- (6) Mortars and tanks may be fired from Brown's Tower mortar pit to mark targets. A range safety officer is required, as well as communications to tower guards, the officer in charge of firing and Base Range Control Duty Officer.
- (7) The blast focus forecast for the firing date will determine whether firing will or will not be permitted and the maximum amount of explosive permitted. See Section IV for blast focus discussion, para 402.4.
  - b. AIR OPERATIONS See Section IV paragraph 412.
- (1) A line 800 yards from the seaward shore of the Intracoastal Waterway is designated as a permanent bombline, beyond which aircraft ordnance may not be impacted.
- (2) Close air support operations will be under the positive control of a forward air control party (FACP).
- (3) The forward air controller (ground), if employed will be positioned in the vicinity of or in Brown's Tower. If FAC (Airborne) is employed there is no requirement to have FAC at Brown's Tower.
- (4) During night close air support operations, when weather conditions are less than 5000 feet ceiling and five miles visibility, or when ground level visibilities do not permit the range guards to visually observe waterborne traffic in the Intracoastal Waterway or seaward for 1000 yards, aircraft firing or bombing exercises will not be permitted without continuous lighting by flares or positioning of guard boats to ensure no vessels enter the surface danger zone.

- (5) Off-set radar bombing utilizing the RABFAC system only may be conducted in the N-l area. This must be conducted when the pilot has VFR capabilities and the FAC operated from Brown's Tower.
- (6) The forward air controller will be positioned in the vicinity of or in Brown's Tower.

#### (7) Forward Air Controller:

- (a) Any air operation involving aircraft live firing or bombing, close air support, paradrops or combined airground exercises requires positive control of aircraft by a forward air controller. The term forward air controller is used synonymously with officer in charge of firing regarding these safety regulations.
- (b) Forward air controllers are required to report to the Range Control Duty Officer for the range check-out briefing normally given to officers in charge of firing.
- (c) Positive communications are required from the forward air controller to Base Range Control Dual communications are required if live firing or bombing is conducted.
- (d) FAC, will notify the Base Range Control Duty Officer immediately after the last aircraft has cleared the area so that temporary fire suspension may be lifted for ground units if in effect.

#### c. ARTILLERY

- (1) Field artillery units authorized to impact into the BT-3 complex must coordinate well in advance of the firing exercise with Base Range Control.
- (2) Field artillery units may be authorized to deliver high angle ordnance into BT-3 while flat trajectory weapons are firing at either fixed or moving targets on G-5 or G-7.
- (3) Normally, a Range Safety Officer will be positioned with the forward observers in the vicinity of Brown's Tower. If flat trajectory weapons are firing concurrently from G-5, G-5A or G-7, he and the forward observers will be in either Bear Creek Tower or Onslow Beach North Tower.

- 1. RANGE Base CS Chamber and NBC Training Trail.
- 2. LOCATION Buildings 934 and 935.
- 3. <u>DESCRIPTION</u>. The chamber consists of two buildings, Bldg. 934, administration; Bldg. 935, CS chamber; CBT training area behind Bldg. 935 plus storage area.
- 4. <u>COMMUNICATIONS</u>. Telephone 451-3518.
- 5. SAFETY REGULATIONS The following safety regulations will prevail at all times for personnel participating in CS chamber and NBC training trail operations.
- a. Safety Officer. A warrant/commissioned officer, familiar with the contents of reference (p) and this order, will be responsible for the safe conduct of CS chamber and NBC training trail operations. The officer shall be designated as the safety officer. He will be responsible for accomplishment of the following functions prior to the exercise:
- (1) Insure that all personnel have been medically screened prior to their participation in the CS chamber exercise.
- (2) Insure that all first aid supplies and equipment are available prior to the commencement of training.
- (3) Insure that a medical corpsman is available for casualty treatment and evacuation.
- (4) Insure that a military vehicle is available for casualty evacuation.
- (5) No privately owned vehicles except those of the range safety officer (RSO) and the CS chamber personnel will be allowed on the range. No classes will begin until this regulation has been complied with.
- (6) Insure that the CS chamber is fired and recharged as required, by Base personnel; and operated as prescribed herein.
- (7) Insure that each detail receives a safety lecture by Base personnel covering the general safety procedures for personnel.
- (8) Insure that <u>no individual</u> who has entered the CS chamber rides in a <u>motor vehicle cab with the driver</u> after such exposure. Further insure that motor vehicle operators do not enter the CS chamber.

- b. General Safety Procedures for Personnel The following safety regulations apply to all personnel participating in the exercise:
- (1) Each individual will have his mask inspected for serviceability and proper fit as prescribed in TM 3-4240-258-14.
- (2) Personnel will not be permitted within the confines of the CS chamber at any time prior to the chamber being fired.
- (3) Running within the confines, or after exit of the CS chamber will not be permitted.
- (4) Personnel will not congregate in groups, nor rub or flush their eyes with water after exiting the CS chamber.
- (5) Upon return to quarters, personnel should delay showering for approximately four hours. Contaminated clothing should be rolled up and secured in a paper bag or plastic bag pending laundering. No personnel should operate a motor vehicle until they have showered and changed clothing.
- (6) No one will remove any object or material of any type from the CS chamber and NBC Training Trail.
- (7) CS agent in solid form will not be permitted to contact exposed skin, clothing or equipment of any individual.
- 6. RANGE PERSONNEL NCOIC of chamber and appropriate assistants for operation of the chamber and firing the gas will be furnished by Base Training Facilities Branch and using unit.
- 7. <u>WEATHER</u>. Inclement weather will necessitate the cancellation of the CS chamber exercise. A WBGT reading of 90° or higher will also necessitate termination of the CS chamber exercise.
- 8. <u>SCHEDULING</u>. Scheduling will be accomplished by the units contacting their respective G-3 who will contact the Base CS Chamber. Marine Corps Base units will schedule by calling the CS chamber and submitting a training request to the Training Facilities Officer, Training Facilities Branch, at least a minimum of ten working days in advance of date desired.

# 9. REQUIREMENTS

- a. All personnel must be instructed relative to CS chamber procedures prior to arrival at the Base CS chamber.
- b. Each individual will have a gas mask. There will be no exchanging of gas masks between individuals for sanitary reasons.

- c. Groups utilizing the CS chamber and NBC Training Trails should have between a minimum of 40 personnel and a maximum of 250 personnel in the group. Advance approval from the NCOIC, CS chamber to conduct the exercise is required when these requirements cannot be met.
- d. The unit safety officer will read, sign, and deliver the signed copy of Tab (A) to the NCOIC, Base CS Chamber on the day the exercise is conducted.
- e. All units will call the CS Chamber (3518) and inform the NCOIC of the exact number of personnel utilizing the facility of scheduled date and time a minimum of one working day prior to use.

# BASE NBC SECTION Marine Corps Base Camp Lejeune, North Carolina 28542

(Da	ite)	

Subj: Safety Officer, assigned duties

#### 1. PRIOR TO CHAMBER EXERCISE

- a. The safety officer will ensure that all personnel from his unit, that are present, are participating in the chamber exercise. Anyone not participating will leave the chamber area.
- b. Safety officer will check with the NCOIC of the chamber to insure that water, a safety vehicle, a resuscitator and a corpsman are available.
- c. The safety officer will attend  $\underline{all}$  lectures given to his troops.
- d. The safety officer will ensure that the senior NCO checks in with the NCOIC of the chamber for specific instructions on forming troops for the chamber exercise.

# 2. INSIDE THE CHAMBER

- a. No grenades will be used inside the chamber.
- b. Exits will be kept clear at all times.
- c. No more than forty-five (45) troops will be inside the chamber at any one time.
- d. The safety officer will not attempt to give instructions inside the chamber or interfere with the instructors in any way, UNLESS SAFETY REGULATIONS ARE VIOLATED.
- e. Inclement weather (rain) forces cancellation of all classes.

(Safety	Officer	- Rank/	Signature)
	Organizat	tion)	

- 1. RANGE Rifle Range
- 2. LOCATION GS 7530 (Stone Creek Sector)
- 3. DESCRIPTION. Three rifle ranges with 200, 300 and 500 yard lines; 600 yard line on one of the ranges. Two outdoor pistol ranges, one indoor pistol range; an outdoor 1000 inch range.
- 4. AUTHORIZED FIRING Service rifles and pistols.
- 5. <u>COMMUNICATIONS</u>. Dial telephones on each range and throughout area.
- 6. KNOWN INTERFERENCE Small boat traffic in western end of Stone Bay.
- 7. SAFETY EQUIPMENT Scarlet streamer southeast corner of range area (764313); large danger sign northeast corner of range area (767330) and danger sign at mouth of Stone Creek (752320).
- 8. RANGE PERSONNEL Safety officer on each range and appropriate numbers of SNCO and enlisted personnel to conduct the Qualification/Requalification program.
- 9. MEDICAL Dispensary located at Rifle Range Detachment.

#### 10. SPECIAL INSTRUCTIONS

- a. The rifle/pistol ranges are cleared to fire any day without prior announcement to the civilian/military populace.
- b. The ranges are cleared to fire only after the western portion of Stone Bay has been cleared of boats and the scarlet streamer raised.
- c. Rifle/pistol matches are conducted by the Camp Lejeune Rifle and Pistol Club about nine times per year.
- d. Recreational firing of the pistol is permitted on weekends and holidays. Military, active and retired are required to check in with the Area Officer of the Day prior to going to the range.

- 1. RANGE Area #5 Swimming Pool
- 2. LOCATION Building 540
- 3. <u>DESCRIPTION</u> The area #5 swimming pool consists of one building housing an enclosed swimming pool for training purposes.
- 4. <u>AUTHORIZED</u>. All units which desire to use area #5 pool for training.
- 5. COMMUNICATIONS. Telephone 451-2027
- 6. <u>SAFETY REGULATIONS</u> The following safety regulations will prevail at all times for personnel participating in swimming pool operations.
- a. <u>Safety Officer</u>. A warrant/commissioned officer, or SNCO, familiar with the contents of reference (h) and this order, will be responsible for the safe conduct of swimming pool operations. The officer shall be designated as the safety officer. He will be responsible for accomplishment of the following functions prior to the exercise:
- (1) Furnish a minimum of two lifeguards, one on the stand and one walking, in addition to the necessary swimming instructors. Lifeguards will be holders of the American Red Cross Senior Life Saving Card and will be governed by the American Red Cross Life Saving and Water Safety Manual in the performance of their duties. Pool operators are not water safety qualified and will not be utilized as lifeguards. There will be one water safety instructor for every ten people.
- (2) Ensure that a corpsman, one oral resuscitation device and normal first aid equipment are available. In any emergency call the Branch Clinic, Building # 15, phone ext. 3211.
- (3) Ensure all personnel take a soap shower in the locker room before putting on swimming attire.
- (4) Allow no more than 80 people in the pool at one time.
- (5) Allow no one to dive from the high board when the pool is crowded. The pool attendant will determine when this condition exists.
- (6) Ensure non-swimmers stay in the shallow end of the pool and they remain in the pool no longer than one hour.
- (7) Allow no one to remain in or adjacent to the pool during an electrical storm.

- (8) No street shoes will be worn on the swimming pool deck.
- (9) Prior to entering the pool area and/or after using the toilet facilities, all bathers will be required to take a cleansing shower in the nude, using soap liberally paying particular attention to the cleansing of body orifices.
- (10) Bathers who have been outside the bathhouse or pool enclosure will not reenter the pool without taking another shower.
- (11) No person known to have a fever, cough, cold, inflamed eyes, nasal or ear discharges, or other communicable disease will be allowed to use the pool.
- (12) No person with open lesions or other evidence of skin disease, or who is wearing a bandage of any kind, will be allowed to use the pool.
- (13) All bathers should make use of the toilet facilities before taking a shower or entering the pool.
- (14) Expectorating or utinating in the pool, expectorating on floors, runways and aisles, or contaminating the pool or its facilities in any other way is strictly prohibited.
- (15) Food and drink sold on the premises will be consumed in the lounging area adjacent to the pool enclosure and shall not be carried onto pool runways, facilities or into the pool proper.
- (16) Smoking will only be allowed in a specially designated area near the pool runway. This area will be distinctly marked and appropriate signs will be placed in the immediate area.
- (17) Bringing to the pool or trowing into it any objects that may in any way carry contamination, endanger safety of bathers, or produce unsightly conditions is prohibited.
- (18) The presence of dogs, cats or other pets within the enclosure, the pool proper, or the bathhouse facilities is prohibited.
- (19) No boisterous or rough play, except supervised water sports or training, will be permitted in the pool, the dressing rooms, or the shower rooms. Particular attention should be given to swimmers using diving boards and platforms.
- b. Range Personnel and Area 5 Pool Operators. NCOIC of swimming pool and appropriate assistants for operation of the swimming pool will be furnished by Base Training Facilities Branch.

(1) Open the pool during the following hours:

0800-1630 Monday through Friday 1630-2200 When scheduled

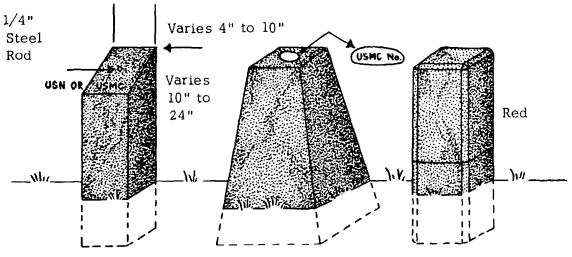
- (2) Two operators will be on duty at the pool from 0800-1630. When the swimming pool is scheduled for night training, one operator will be on duty until closing.
  - (3) Permit only those units scheduled to use the pool.
- (4) Maintain the Swimming Pool Operating Record (NAVDOCKS 2563) with information not provided by Base Maintenance Utilities Division (columns 3,4,5,6,9,10,12). This report will be forwarded to the Training Facilities Officer for submission to the Commanding Officer, Naval Regional Medical Center, Camp Lejeune, N.C. 28542, on the last working day of each month.
- (5) Report any accident immediately to the Base Training Facilities Officer, Ext. 3920/5803/3064.
- (6) Admit children under 12 years of age only when accompanied by a parent or other responsible adult.
- (7) Maintain proper security, police and maintenance of the swimming pool, submitting timely work requests to the Range Maintenance Officer for necessary maintenance. Regular cleaning hours will be established and followed.
- (8) Prepare the pool for inspection the second and fourth Friday of each month and then notify the Operations Chief at Training Facilities of the results of the inspection.
- (9) Ensure that the provisions of paragraph 6 above are strictly adhered to.
- (10) In any situations in which the operator needs additional instructions, especially concerning the safety of personnel using the pool, he will at once contact the Operations Chief, Scheduling NCO or Range Control Duty Officer at ext. 3920/5803/3064.
- (11) Ensure that the regulations set forth in reference (h) pertaining to swimming pool sanitation are strictly adhered to.
- 7. WEATHER. No one will be allowed to remain in or adjacent to the swimming pool during an electrical storm.

- 8. <u>SCHEDULING</u>. Units will schedule by submitting a request to their respective G-3 sections who will call the pool (451-2027) for availability. Marine Corps Base units will submit their requests to arrive at the Base Training Facilities Office a minimum of ten working days prior to the day of use.
- 9. SPECIAL REQUEST FOR RECREATIONAL SWIMMING.
- a. Request for recreational swimming in the Area 5 Pool will be forwarded via the chain of command to CG, MCB, CLNC (Assistant Chief of Staff, Training) at least two weeks prior to the date of request. The request will include the following information:
  - (1) Unit requesting pool
  - (2) Number of personnel to utilize pool
  - (3) Date and times of use
  - (4) Officer in Charge and number of safety personnel
  - b. All safety regulations will be strictly adhered to.

#### APPENDIX C



The above standard brass markers will be found set in concrete in various types and shapes of monuments.



The above concrete markers will be found in various types and shapes.

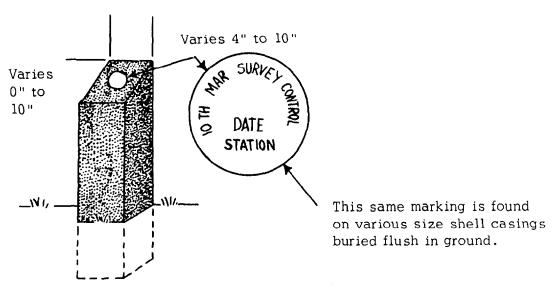


Figure 1. RANGE AND SURVEY CONTROL MARKER DESCRIPTION

# APPENDIX D TRAINING FACILITIES

1. LIVE FIRE RANGES. Live fire ranges and locations are described in Appendix B.

# 2. OBSERVATION POSTS

DESIGNATION	LOCATION	IMPACT AREA
OP-1	GC 904375	G-10
OP-2	GC 914373	G-10
OP-3	GC 927368	G-10
OP-5	GC 895344	G-10
OP-303	GC 797359	K-2
BROWN'S TOWER	GC 958322	N-1

# 3. **GUN POSITIONS**

DESIGNATION	LOCATION		ORDNANCE	IMPACT AREA
GP # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	GC 911418 GC 877414 GC 923416 GC 928407 GC 881383 GC 903378 GC 915373 GC 937381 GC 939372 GC 952368 GC 897345 GC 955350 GC 962353 GC 970348 GC 948331 GC 901322	TLZ PENGUIN	105/155/8 in 105/155/8 in 105/155/8 in 105 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2 105/4.2	G-10 G-10 G-10 G-10 G-10 G-10 G-10 G-10
17	GC 912324	TLZ CROW	105/4.2/155	G-10
18	GC 923315		105/4.2	G-10
19	GC 945323		105/155	G-10
20	GC 952325		105/155	G-10
21	GC 885307	TLZ DODO	105/155/8 in	G-10 K-2
22	GC 908308		105/155	G-10
23 24 25 26 27	GC 916309 GC 851284 GC 868295 GC 899302 GC 904283	TLZ GOOSE TLZ CANARY	105/155/8 in 105/155/8 in 105/155/8 in 105/155/8 in 105/155/8 in	G-10 G-10 K-2 G-10 K-2 G-10 G-10
28	GC 913284	TLZ FALCON TLZ BLUEBIRD TLZ ALBATROSS	105/155/8 in	G-10
29	GC 873258		105/155/8 in	G-10
30	GC 895274		105/155/8 in	G-10
31	GC 892268		105/155/8 in	G-10
32	GC 928299		105/155/8 in	G-10

DESIGNATION	LOCATION	ORDNANCE	IMPACT AREA
GP #33 34 51 TLZ EAGLE 52 53 TLZ CARDINAL 54 TLZ CONDOR 55 56	GC 899264	105/155/8 in	G-10 K-2
	GC 904266	105/155	G-10
	GC 785413	105/155	K-2
	GC 781381	105/155	K-2
	GC 783367	105/155	K-2
	GC 758352	105/155	K-2
	GC 762346	105/155	K-2
	GC 775277	105/155	K-2

4. MANEUVER AREAS. See Reference (i) for geographic locations and boundaries of maneuver areas.

#### 5. LANDING ZONES

# a. <u>ADMINISTRATIVE LANDING ZONES</u>.

ALZ #	LOCATION	COORDINATES
1	Camp Johnson, MCSSS	792447
1A	Camp Johnson, MCSSS	795426
2	Naval Hospital NRMC	828394
3	Area One	836392
4	W.P.T. HILL Parade Field	851382
2 3 4 5 6 7 8	2d MarDiv CP	841377
6	10th Marines Area	848369
7	OP #2 (G-10 Area)	915374
8	Courthouse Bay Area	835295
10	Tennis Court, Paradise Pt.	823424
11	2d FSSG (REIN) CP	852389
12	Golf Course (Remain Clear of Qtrs)	808438
13	Golf Course (Rd Intersection)	824437
14	Rifle Range Qtrs (Avoid Ranges)	753300
15	Camp Geiger	744464
15A	Camp Geiger (Parade Field)	749454
16	6th Marines Area	847374
17	Radio Island, Morehead City	0/7000
18	2d Marines Area	841382
19	LC Maneuver Area	751282
20	K-Area (Rear of K-305)	007060
0.1	Daylight Operation only	801360
21	French Creek Area, Athletic	069961
22	Facility	863361
	Adjacent to Risely Pier	903266
23	Squad Leaders Course Tent Camp	944373

- (1) Administrative Landing Zones are not available for the conduct of Training.
- (2) Unless it is an emergency situation, ALZ-2 (Naval Hospital) and ALZ-4 (W.P.T. HILL Parade Field) are authorized night landing zones only.
- (3) Prior to landing at ALZ-2 (Naval Hospital) notify front desk duty watch (phone 4300/4475/4417).

#### b. TACTICAL LANDING ZONES

Designation		Location	NAC TACAN Position	Coordinates	Remarks	
Albatross	GP-30	Sallier's Bay	141/11	895273		
Bluebird	GP-29	Mile Hammock Bay	151/11	874257		
Cardinal	GP-53	Verona Loop	164/04	784367		
Canary	GP-24	Trap Bay	154/9월	852284		
Condor	GP-54	MF Area	181/4	772358		
Crow	GP-17	G-4 Range	130/9월	913324		
Dodo	GP-21	HB Area	137/9	888308		
Dove		HB Area	145/8월	864305	Emerg. Or	ıly
Eagle	GP-51	Ragged Point	139/1½	783411		
Falcon	GP-28	Hurst Beach Road	137/11			
Gander		GG Area	134/10월			
Goose	GP-23	Airstrip	$132/10\frac{1}{2}$			_
Hawk		Combat Town Area	133/9월	895321	Emerg. Or	nly
Jaybird		HD Area	131/8	877343		
Lark		Triangle Outpost	108/10월			
Ow1		LC Area	180/7.9			
Parrot		MB Area	180/3 3/4			
Penguin	GP-6	FD Area	110/8			
Robin		Hubert Area	096/10			
Sparrow		DB Area	114/5월	855396		

 $\star \text{NOTE}\colon$  Due to loose sand, Hawk and Dove are not recommended for CH-46 operations.

# c. AUTHORIZED PARADROP ZONES

Albatross Bluebird Canary Condor	GP-30 GP-29 GP-24	Sallier's Bay Mile Hammock Bay Trap Bay MF Area	141/11 151/11 154/9½ 181/4 130/9岁	895273 874257 852284 772358 913324
Crow	GP-21	G-4 Range HB Area	130/9%	888308
Dodo Eagle	GP-21 GP-51	Ragged Point	139/13	783411
Falcon	GP-28	Hurst Beach Road	137/11	912286
Goose	GP-23	Airstrip	132/10뉳	919308
Penguin		FD Area	110/8	899376

# 6. MAJOR FIELD TRAINING FACILITIES

Designation	<u>Location</u>	Scheduling Activity
W. P. T. HILL Parade Field	GS 8538	Base TFO
Camp Geiger Parade Field	GS 7445	CO, 8th Marines
Camp Johnson Parade Field	GS 7946	CO, MCSSS

<u>Designation</u>	Location	Scheduling Activity
Molly Pitcher Athletic Field Combat Town Gas Chamber Mock-up, Dry-net (F-17) Training Pool Training Pool	GS 8931 GS 8738 GS 8738 Area #2 Area #5	CG, 2d FSSG (Rein) Base TFO Base TFO Base TFO ACS-G3 2d Mar.Div. Base TFO
Training Pool	Camp Johnso	on, CO MCSSS

APPENDIX E

BCL 3574/2 (R	NING FACILITY REQUEST/ASSIGNMENTS L 3574/2 (REV 11-69)			DAY AND DATE
1 RANGE	2 HOURS	3 MAXIMUM ORDINATE	4 ORDNANCE TO BE FIRED	5 USING UNIT
A-1				
D-6				
D-9				
D-11A				
D - 27			, , , , , , , , , , , , , , , , , , ,	
D - 29				
D - 30			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
F-2	-			
F-3			, , , , , , , , , , , , , , , , , , ,	
F-4				
F-5				
F-6				
F-13				
F-9				
F-10				
F-11				
F - 12				
F - 18				
G - 2				
G-4				
G-5				
G-5A				
G-7				
G-8				
G-9				
1-1				
1 - 2				
J - 2				
K - 326				
K - 407				
L - 5				
				·

NOTE: REQUESTING UNIT COMPLETE COLUMNS 2, 4 AND 5

1	2	3	ļ	4 MAXIMUM	5	1	6
RANGE	HOURS	SEA SF	ACE	ORDINATE	ORDNA	NCE	USING UNIT
BT-3			-				
BT-3							
BT-3							
ВТ-3	· · · · · · · · · · · · · · · · · · ·						
BT-3	Ze-mod-love-bonnes						and the least th
			STING U	NIT COMPLETE	COLUMNS	2, 5 AND	
GC OF GUN POSITIONS		3 HOURS	IMPAC AREA		ORD	6 NANCE	7 USING UNIT
			_				· · · · · · · · · · · · · · · · · · ·
		: REQUEST		T COMPLETE C	ULUMNS 1,	2, 3, 6 AN	
RANGE	2 HOURS		3 (IMUM INATE	4 ORDNANCE TO	BE FIRED		5 USING UNIT
K - 301	***						
K - 303							
K - 305							
K - 321							
	NOT	E: REQUES	STING UN	IT COMPLETE	COLUMNS	, 2, 4 AND	5
l TLZ	но	2 DURS	3 MAXIMUA ORDINAT	4	4 RAINING		5 USING UNIT
	,						
			1.8				
				IT COMPLETE			
				DOP LIFT, CARGO ICOPTER EXERCIS		NNEL PAKAI	JROP
ANEUVER	AREA OF FIELD	TRAINING F	ACILITY:				
						· · · · · ·	

# APPENDIX F REGULATIONS FOR COMBAT TOWN

#### 1. General

- a. Combat Town is a simulated village consisting of 13 separate buildings. The ground-level apartments of units numbered one through sixteen are of cement block construction. Second and third floors, where noted, are of wooden construction. Other buildings are of sheetrock/plywood construction with hardwood floors.
- b. Recesses have been placed in selected door jambs and stair treads to facilitate the emplacement of booby-trap simulators. Field emplacements that require alteration of existing facilities are prohibited.
- c. Combat Town includes maneuver areas extending 300 yards in all directions from the center of the facility.

# 2. Authorized Firing

- a. See paragraph 7 below for authorized ammunition.
- b. Live fire, the use of explosives, white phosphorous and incendiaries are prohibited.
- 3. <u>Safety</u>. Fly scarlet streamers during daylight hours; display red flashing lights from sunset until sunrise from flagpoles located 200 yards east, west, and south of Combat Town at all times the facility is in use.

# 4. Communications\_

- a. A telephone (7451) is located in the steeple of the church, bldg. 1.
- b. The officer in charge of training, his designated representative, or Base Training Facilities Branch personnel only are authorized access to the church steeple.

# 5. Restrictions

- a. Tracked vehicle traffic is prohibited on those portions of Ash, Elm and Maple Streets, as depicted on Tab (A).
- b. Entry into or use of portions of buildings as shown on Tab  $(\mathbf{A})$  is prohibited.
  - c. Bivouacking is not permitted in Combat Town.
- d. No fires will be intentionally set in Combat Town except as authorized by the Base Range Control Officer.

e. Tracked vehicles used in support of infantry will be operated at a minimum distance of 50 feet from all buildings or structures.

# 6. Miscellaneous

- a. The officer in charge of training will receipt for Combat Town from the Range Control Duty Officer, Bldg. 1, prior to movement to the facility. Upon arrival at Combat Town, he will check in with the Base Training Facilities onsite inspector.
- b. Prior to leaving Combat Town and after area police is completed, the officer in charge of training will request an inspection by the on-site inspector.
- c. Upon completion of all training, the officer in charge of training will report to the Base Range Control Duty Officer to return property and check in the facility.
- d. Every effort must be made to preclude damage to or misuse of Combat Town structures. In the past, willful damage and the use of doors and timbers for warming fires has resulted in increased maintenance and lost training time.

# 7. Authorized Ammunition

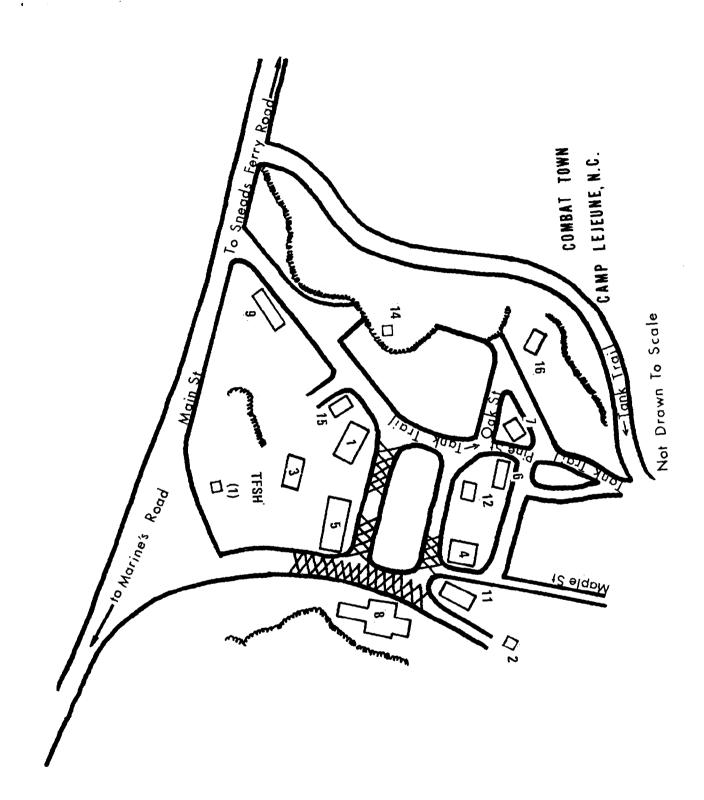
- a. Small Arms and Machine Gun Ammunition:
  - (1) A-111 Cartridge, Cal. 7.62mm M82 Blank A-112
  - (2) A-224 Cartridge, Cal. 30 M 1909 Blank A-225
- b. Hand Grenades:
- (1) All practice and colored smoke hand grenades are authorized except during fire danger condition 4 or 5.
- (2) Grenade, hand, training G-965 No restrictions on use during fire condition 1 through 5.

#### c. Land Mines:

- (1) K-105 Mine, A/P, M-8 Practice
- (2) K-230 Mine, A/T, M-12 Practice
- (3) K-321 Mine, A/T, M-20 Practice
- d. Pyrotechnics: Not authorized during fire condition 4 or 5.

- (1) L-225 Signal, Illum, A/C RR
- (2) L-226 Signal, Illum, A/C YY
- (3) L-227 Signal, Illum, A/C GG
- (4) L-228 Signal, Illum, A/C RY
- (5) L-229 Signal, Illum, A/C RG
- (6) L-230 Signal, Illum, A/C GY
- (7) L-234 Signal, Illum, A/C YRY
- (8) L-237 Signal, Illum, A/C RR Star
- (9) L-239 Signal, Illum, A/C RGR
- (10) L-309 Signal, Illum, Ground, ASP
- (11) L-310 Signal, Illum, Ground, GSP
- (12) L-311 Signal, Illum, Ground, RSP
- (13) L-312 Signal, Illum, Ground, WSP
- (14) L-313 Signal, Illum, Ground, ASC
- (15) L-314 Signal, Illum, Ground, GSC
- (16) L-315 Signal, Illum, Ground, RSC
- (17) L-316 Signal, Illum, Ground, WSC
- (18) L-323 Signal, Smoke, Ground, Red Parachute
- (19) L-324 Signal, Smoke, Ground, Green Parachute
- (20) L-325 Signal, Illum, Ground, GSC
- (21) L-326 Signal, Illum, Ground, RSP
- (22) L-378 Firecracker, M80
- (23) L-598 Simulator, Booby Trap Flash
- (24) L-599 Simulator, Booby Trap Illuminating

- e. Demolitions Material
  - (1) M-626 Firing Device, Demolition, Pressure Type
  - (2) M-627 Firing Device, Demolition, Pressure Release
  - (3) M-630 Firing Device, Demolition, Pull Type



Tab A to APPENDIX F

mit ma /Do ha	Traces
Time/Date	Inspected
3 2 1 1 2 C C C	

MEMORAN	MUDI					
From: To:	Base T	raining Facilities Offi	cer			
Subj:		ng Facilities Safety Re enance Discrepancies Rep		or Po	olice ar	nd
Ref:	(a) B	O P11102.1_				
		dance with instructions ining facility noted be				
Facili	ty: _		_			
Type I	nspecti	ion:	_(Safety,	Poli	ce, Mai	nt.)
Using T	Unit:		_(If appl	icabl	e)	
2. Rewere a	sults o	of the inspection in the	e appropr	iate	categor	ies
a.	Safe	ty Procedures		SAT	UNSAT	N/A
	(1) (2) (3) (4) (5) (6) (7) (8)	Facility properly signature of Safety Personnel knowled regulations Use of safety equipment Authorized Weapons and Ammunition Adherence to firing retions Communications Other (Explain in Remains Section)	l edge of t stric-			
ъ.	Poli	<u>ce</u>				
	(1) (2) (3) (4)	Roads/Bivouac Areas Firing lines, points, Down range, Maneuver a Brass, unserviceable a tion	reas			
	(5) (6) (7)	Comm Wire, Trash Buildings, structures Other (Explain in Rema Section)	rks			•

c. Range Operation and Maintenance SAT UNSAT N/A  (1) Range Operator present (If required) (2) Gates, fences, signs, flagpoles (3) Buildings, structures, towers (4) Firing line, positions, pits, berms (5) Roads, underbrush, grass (6) Erosion and drainage (7) Targets, carriers, railways (8) Trash barrels, fire buckets (9) Communications System (10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments							
required) (2) Gates, fences, signs, flagpoles (3) Buildings, structures, towers (4) Firing line, positions, pits, berms (5) Roads, underbrush, grass (6) Erosion and drainage (7) Targets, carriers, railways (8) Trash barrels, fire buckets (9) Communications System (10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Recommendations and Comments	c.	Range	Operation and Ma	intenance	SAT	UNSAT	N/A
(2) Gates, fences, signs, flagpoles (3) Buildings, structures, towers (4) Firing line, positions, pits, berms (5) Roads, underbrush, grass (6) Erosion and drainage (7) Targets, carriers, railways (8) Trash barrels, fire buckets (9) Communications System (10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Recommendations and Comments		(1)		resent (If			
(5) Roads, underbrush, grass (6) Erosion and drainage (7) Targets, carriers, railways (8) Trash barrels, fire buckets (9) Communications System (10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Signature		(2) (3) (4)	Gates, fences, si Buildings, struct	tures, towers			
(10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Signature		(5)	Roads, underbrush				
(10) Electrical (11) Other (Explain in Remarks Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Signature		(6) 72	Targets, carriers	s, railways			
Section)  d. Remarks (Explain unsatisfactory results)  Recommendations and Comments  Signature			Communications Sy Electrical	rstem			
Recommendations and Comments  Signature		(11)		n Remarks			
Signature	đ.	Remar	ks (Explain unsa	itisfactory resu	ılts)		
Signature							
Signature							
Signature	•						
	Rec	ommend	ations and Commen	nts			
Doubt Opposit to the op				Signature		101111111111111111111111111111111111111	reconstructive even of the community
Mank Auroan Laat, ton				Rank/Organizat	ion		

3.

# APPENDIX H HEADQUARTERS, MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

						Date
From: To:				of Firi		raining
Subj:	Assum	ption	of Res	ponsibil	ity for	(Facility,Range,OP)
Ref:		BO P11 Army F		5-63 of	June 19	68
plicabl derstar Safety Facilit	le por nd tha Regul ties,	tions t I mu ations extrac	of ref st hav gover sted fr	erences e in my ning Mar	(a) and possess ine Cor ence (a	amiliar with all ap- (b). I further un- ion a copy of the ps Base Training ), at all times cted.
the saf	fe con	duct o	of all	training	on, an	responsibility for d the proper use, ty during the period
<del></del>		D-+- /1	73	to	<u> </u>	- Date/Time)
(Commer	nce -	Date/1	ine)		(cease	- Date/Ilme)
during	which	Wes	pons)		(Amm	unition)
will be	- <i>E</i> !		.po		(22	
3. I t	unders	tand t				this facility and re- upletion of training:
Sa: Rar		treame antern				
				(PLEAS	E PRINT	2)
Name, I	Rank,	Title			3	Organization
Phone 1	No.			С	all Sig	n
	- · <u></u> -					
					Si	gnature

RANGE CONTROL CHECK SHEET MCBCL 8200/1

	POLICE: (If answer is NO to any item, $expl$ ph e.)	ain in	para-
		YES	NO
	<ul> <li>a. Roads/Bivouac Areas</li> <li>b. Firing line, Bldgs, Structures</li> <li>c. Down Range Areas</li> <li>d. Trash/Brass Removed</li> <li>e. Remarks:</li> </ul>		
5.	Range Maintenance Required:		
6.	Recommendations/Comments:		
7.	Number of rounds/type expended		
	(Signature)	Rank)	-
All wit	property listed in paragraph 3 was returned the following exceptions:	l this o	late
	(RCDO Signat	ure)	

# HEADQUARTERS, MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

		Date:
From: To:	Officer in Charge of Base Training Facili	Training ties Officer
Subj:	Assumption of Respon Maneuver Area(s)	sibility for
Ref:	(a) BO P11102.1	
applic that I Regula	must have in my possitions governing Marintimes my unit is occ	ead and am familiar with all rence (a). I further understand ession a copy of the Safety e Corps Base Training Facilities upying the maneuver areas listed
the sa:	ie conduct of all tra-	assume full responsibility for ining on, and the proper use, ining facility during the period:
		to
(Dat	te/Time)	(Date/Time)
complet	understand that I must te the range report of tion of training.	t check-in this facility and n the reverse of this form upon
Name, 1	Rank, Title	Organization
Phone 1	No	Signature

# RANGE REPORT

1.	Police						
	а.	State of police on arrival () () '() Unsat Sat Exc					
	Rema	arks:					
sat all	isfac	If state of police on arrival was less than ctory explain action taken by you or your unit to te that condition:					
	с.	State of police on departure () () () Unsat Sat Exc					
If	less	than satisfactory explain:					
2. nee	The d at	following maintenance discrepancies were noted and tention:					
3.	Reco	ommendation/comments:					
		,					
		Signature/Rank					