



UNITED STATES MARINE CORPS  
MARINE CORPS INSTALLATIONS EAST-MARINE CORPS BASE  
PSC BOX 20005  
CAMP LEJEUNE NC 28542-0005

MCIEAST-MCB CAMLEJO 8020.2

G-4

28 FEB 2013

MARINE CORPS INSTALLATIONS EAST-MARINE CORPS BASE CAMP LEJEUNE ORDER 8020.2

From: Commanding General  
To: Distribution List

Subj: HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE (HERO) EMISSION CONTROL (EMCON) BILL

Ref: (a) Hazards of Electromagnetic Radiation to Ordnance Assessment of Marine Corps Base Camp Lejeune, North Carolina, January 2011  
(b) NAVFAC 11010/31 Parts I and II, Request for Project Site Approval/Explosive Safety Certification  
(c) Electromagnetic Radiation Hazards (Hazards to Ordnance), NAVSEA OP 3565/ 1 April 2011 NAVAIR 16-1-529 Volume 2, Eighteenth Revision,  
(d) NAVSEA OP 3565

Encl: (1) General HERO Requirements  
(2) Nomenclature  
(3) MCB Camp Lejeune Drawings and Photographs  
(4) HERO Summary  
(5) HERO EMCON Procedures  
(6) Antenna and Transmitter Systems  
(7) HERO Warning Label and Warning Symbol  
(8) MCB CAMP LEJEUNE Call List for HERO EMCON

1. Situation. This Order provides for safe handling, assembly, transportation, and stowage of ordnance with regard to the Hazards of Electromagnetic Radiation to Ordnance (HERO) exclusively for Marine Corps Base Camp Lejeune (MCB CAMLEJ), its subordinate and tenant commands.

Enclosure (1) lists the general HERO requirements. The information contained in enclosures (2) through (5) is provided in reference (a). Reference (b) requires all bases and stations within Marine Corps Installations East-Marine Corps Base Camp Lejeune (MCIEAST-MCB CAMLEJ) that maintain electronically initiated explosive devices establish their own Emission Control (EMCON) Bill.

2. Cancellation. MCB CAMLEJ EMCON Bill of 8 Dec 09.

3. Mission. To promulgate policies and procedures for the safe handling, assembly, transportation, and stowage of ordnance with regard to HERO aboard Camp Lejeune.

4. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. To provide specific guidance applicable anytime ordnance operations are conducted aboard this installation. All commands shall ensure strict compliance with the instructions contained in the references and this Order.

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(2) Concept of Operations

(a) As described in reference (c), electromagnetic radiation hazards stem from the functional characteristics of electrically initiated ordnance and are a result of absorption of electromagnetic energy by the firing circuitry of Electrically Initiated Devices (EIDs). The induced energy can cause heating of the bridgewire and primary explosive which can result in premature, unintended actuation of the EID. Such an event can pose either a safety or reliability problem. In general, ordnance is most susceptible to Radio-Frequency (RF) Electromagnetic Environments (EME) during assembly, disassembly, handling, loading, and unloading.

(b) There are four classifications pertinent to HERO: HERO SAFE; HERO SUSCEPTIBLE, HERO UNSAFE; and HERO UNRELIABLE. Therefore, HERO EMCON, ordnance handling restrictions and procedures form a compromise which allows for the safe handling of ordnance within the existing EME. EMCON is derived from an analysis of the EMEs produced by the existing antenna/transmitter systems and the ordnance susceptibilities described in reference (c), or through a HERO survey.

b. Subordinate Element Missions

(1) Commanding Officers (COs)/Officers-in-Charge (OICs) and Department Heads/Special Staff Assistants shall:

(a) Ensure that all operators of antenna/transmitter systems comply with this Order.

(b) Ensure that personnel operating antenna/transmitter systems are properly instructed in their use during HERO EMCON conditions.

(c) Notify the Explosives Safety Officer (ESO), the Frequency Manager, and the HERO Officer prior to installing and using new radiating electronic equipment.

(d) Promulgate supplementary instructions pertaining to their own equipment, personnel, and operating procedures, as required for compliance with this Order.

(e) Ensure all mobile and portable radios under the cognizance of their command are affixed with HERO warning labels to identify safe separation distances prior to issue.

(2) HERO Officer. The Ammunition Supply Point (ASP) OIC will assume the duties of HERO Officer by virtue of the billet. The ASP OIC is a central point of contact (POC) for determination of compliance with the appropriate references as it relates to all forms of ordnance handled aboard Camp Lejeune. The HERO Officer is responsible for a continuing program to ensure HERO safety aboard Camp Lejeune and shall:

(a) Coordinate with organization ordnance and radiation hazard (RADHAZ) representatives to develop recommended changes to these instructions as required.

(b) Notify appropriate personnel in enclosure (8) for the setting of a HERO Condition. After normal working hours, the MCIEAST-MCB CAMLEJ Command Duty Officer (CDO) will contact the HERO Officer.

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(c) Monitor the supply of HERO warning labels and signs and order as necessary.

(d) Review RADHAZ requirements and request HERO surveys as required.

(e) Provide the ESO and Frequency Manager with all ordnance facility and handling location changes.

(f) Ensure all ammunition personnel are familiar with HERO restrictions applicable to ordnance operations.

(g) Advise users upon issue of any ordnance of its HERO status during all aspects of its life cycle (i.e., transportation, storage, assembly, handling, and loading operations).

(h) Inform the Frequency Manager and ESO upon receipt of ordnance items that are categorized as HERO SUSCEPTIBLE, HERO UNSAFE or HERO UNRELIABLE so the HERO issues can be mitigated to ensure both safety and reliability.

(i) Ensure that HERO SUSCEPTIBLE, HERO UNSAFE or HERO UNRELIABLE ordnance items are enclosed in sealed, all-metal containers during transport. (When transported in sealed, all-metal containers, such ordnance is considered HERO SAFE.) In the event that HERO SUSCEPTIBLE ordnance needs to be transported outside a sealed, all-metal container, observe the HERO separation distances listed in enclosure (6) for stationary, portable and mobile antenna/transmitter systems. In the event of an ordnance accident, set the appropriate HERO Condition for HERO UNSAFE/UNRELIABLE ordnance.

(j) Place HERO warning signs prohibiting RF transmissions at the entrance of magazine areas and all ordnance handling or storage activities. Enclosure (7) illustrates a recommended HERO warning symbol.

(3) Explosives Safety Officer (ESO). The ESO is a central POC for determination of compliance with the appropriate references as it relates to all forms of ordnance safety aboard Camp Lejeune. As such, the ESO will assist the ASP OIC in tracking and monitoring all future ordnance facility or handling location changes and shall:

(a) Act as a HERO liaison with the HERO Officer and Frequency Manager to track and monitor all future antenna/transmitter system and ordnance changes.

(b) Inform the ASP OIC, HERO Officer, Safety Department, and U.S. Marine Corps Forces, Special Operations Command Ammunition Supply Area when notified by the Frequency Manager that stationary transmitters/antenna systems are relocated or new equipment is obtained. These changes should be submitted for HERO review, per reference (b).

(c) Coordinate the HERO program for Camp Lejeune.

(d) Account for all command and tenant information, as presented in enclosures (2) and (6), concerning ordnance operations and antenna/transmitter systems present.

(e) Assist the HERO Officer and Frequency Manager in ensuring future antenna/transmitter system changes aboard Camp Lejeune are submitted for

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HERO review. This includes, but is not limited to, the following:  
Approve/disapprove recommendations for all new or modified antenna/transmitter system installations and frequency coordination aboard Camp Lejeune from the Frequency Manager.

(f) Contact the CO, Naval Ordnance Safety and Security Activity (NOSSA), N84 for all questions concerning HERO.

(g) Act as a review authority to ensure compliance with applicable ordnance safety directives and HERO procedures as outlined herein.

(4) Frequency Manager shall:

(a) Review the analysis of planned modifications to the existing antenna/transmitter system configurations and shall advise the CO on the HERO EMCON impact before executing the plan.

(b) Inform the ESO when stationary transmitter/antenna systems are relocated or new equipment is obtained. These changes should be submitted for HERO review, per reference (b).

(c) Establish registration procedures for owners of citizens band (CB) amateur radios and General Mobile Radio Service to familiarize operators with HERO.

(d) Provide recommendations to Assistant Chief of Staff (AC/S), G-3/5 for approval/disapproval to operate amateur radio equipment aboard Camp Lejeune.

(5) AC/S, G-3/5 shall:

(a) When requested, set and secure HERO EMCON Conditions as requested.

(b) Ensure all aircraft are notified of applicable HERO conditions.

(c) Maintain liaison with tenant commands to resolve any conflicts in setting HERO EMCON Conditions.

(d) Designate a member of the AC/S, G-3/5 department as the Command RADHAZ Control Officer.

(e) Approve/disapprove request(s) to operate amateur radio equipment aboard Camp Lejeune.

(6) AC/S, Security and Emergency Services: Notify Camp Lejeune personnel and visitors of mobile transmitters aboard the installation. Visitors with transmitters will be permitted only with the written permission of the Commanding General (CG).

(7) On-scene Commander shall: In the event of an ordnance accident or incident the on-scene commander would be the Provost Marshal or the Fire Department, until Explosive Ordnance Disposal (EOD) responds and the item is rendered safe, or is determined safe to transport.

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(8) Tenant Commands and Activities shall:

(a) Notify the Frequency Manager, ESO, and HERO Officer of any operation involving HERO SUSCEPTIBLE ordnance or HERO UNSAFE/UNRELIABLE ordnance that would require the setting of a HERO Condition.

(b) Ensure HERO UNSAFE/UNRELIABLE ordnance is completely enclosed in a sealed, all-metal container during storage and during transfer between designated safe areas.

c. Coordinating Instructions

(1) The Naval Ordnance Safety and Security (NOSSA) website <https://nossa.nmcii.navy.mil/nrws3> contains electronic copies of various ammunition safety references, including the current revision of reference (c). Users can view, search, and print these Adobe Acrobat PDF-formatted references.

(2) The following paragraphs describe the categories of ordnance:

(a) HERO SAFE ORDNANCE. Items that require no EME restrictions beyond the general HERO requirements described in chapter 7, paragraph 7-3 of reference (b).

(b) HERO SUSCEPTIBLE ORDNANCE. Items that are susceptible and require moderate EME restrictions.

(c) HERO UNSAFE ORDNANCE. Items that are extremely susceptible and require severe EME restrictions.

(d) HERO UNRELIABLE ORDNANCE. Any ordnance item, including those having a HERO SAFE ORDNANCE or HERO SUSCEPTIBLE ORDNANCE classification, whose performance is degraded due to exposure to the RF environment, is defined as being HERO UNRELIABLE ORDNANCE when its internal wiring is physically exposed; when tests are being conducted on the item that result in additional electrical connections to the item; when EIDs having exposed wire leads are present, handled, or loaded in any, but the tested condition; when the item is being assembled or disassembled; or when such ordnance items are damaged causing exposure of internal wiring or components or destroying engineered HERO protective devices. Ordnance items containing EIDs whose performance is degraded due to exposure to the RF environment and which have not been classified as HERO SAFE or SUSCEPTIBLE by either test or design analysis are HERO UNRELIABLE ORDNANCE and are subject to the restrictions of reference (c). Items that fall into this classification may be exempted from being classified as HERO UNRELIABLE ORDNANCE as the result of HERO tests conducted to determine specific susceptibility.

(3) HERO Instruction. Provides specific guidance germane to the antenna/transmitter systems aboard Camp Lejeune in order to mitigate the concern for HERO. Reference (a) contains the HERO EMCON procedures tailored specifically Camp Lejeune. The general HERO precautions are listed in enclosure (1). Enclosure (2) addresses the facility's ordnance. The ordnance items listed in this enclosure are sorted by Navy Ammunition Logistic Code and/or Department of Defense Identification Code. Each item's respective HERO status is also documented (e.g., "No HERO Requirement," "SAFE," "SUSCEPTIBLE," "UNSAFE" or "UNRELIABLE"). Enclosure (3) contains the drawings and photographs for MCB Camp Lejeune. These drawings show ordnance

storage and operational areas, transportation routes, current transmitter and antenna locations, and HERO zones. Enclosure (4) contains the applications for setting HERO Conditions. Enclosure (5) contains the HERO EMCON procedures. Enclosure (6) provides HERO separation distances for the antenna/transmitter systems. Enclosure (7) illustrates a recommended HERO warning label and symbol. Through the use of enclosure (8), the CDO, upon notification, will set the appropriate HERO EMCON Condition to ensure EME do not exceed acceptable levels.

(4) Requirements. To ensure ordnance safety, precautions must be taken to limit EME in and around ordnance handling areas. Enclosure (1) contains standard HERO precautions and chapter 7 of reference (b) provides HERO requirements during ordnance operations.

(a) When ordnance is being assembled, handled, stored, or transported within the confines of Camp Lejeune, emissions from various mobile and portable antenna/transmitter systems should be discontinued or the HERO UNSAFE/UNRELIABLE and HERO SUSCEPTIBLE ordnance safe separation distances provided in enclosure (6) should be maintained.

(b) HERO UNSAFE/UNRELIABLE or HERO SUSCEPTIBLE ordnance cannot be moved, transported, or loaded except as specified by the ASP OIC (HERO Officer) and the ESO. Enclosures (4) and (5) provide specific HERO EMCON guidance.

(c) Other conditions necessitating deviations from the requirements outlined in reference (c) shall be reported to NOSSA, N84, per reference (c).

(d) The CDO will be responsible for notifying the appropriate personnel provided in enclosure (8) of the setting of a HERO Condition after normal working hours. In addition, the CDO will receive reports that the ordered HERO Condition is set and report to the HERO Officer.

(e) Officers and supervisors shall be responsible for notifying each operator of a Government vehicle containing a mobile transmitter that the transmitter is not to be energized within the safe separation distances provided in enclosure (6).

(f) Each civilian employee or service member having a radio transmitter installed in his/her personal vehicle is responsible for its registration with the Safety Department, per reference (c). (Note: Registration does not authorize use). One copy of the registration form shall be kept in the vehicle with the radio at all times while aboard Camp Lejeune; the second copy will remain on file at the Pass and Identification Office (Building 60). Privately owned radios shall not be operated in any restricted area or in other parts of Camp Lejeune while in sight of a vehicle, train or truck that exhibits an explosives placard.

(g) Each mobile and portable transmitter shall be conspicuously marked (at the operator's location) with the appropriate distance taken from enclosure (6) and marked by a RADHAZ cautionary decal. Cautionary decals will be provided by the HERO Officer/Frequency Manager.

(h) Commands, contractors, and their representatives will coordinate frequency assignment matters through the appropriate Department of the Navy Area Frequency Coordinator and the Camp Lejeune Frequency Manager.

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(5) HERO EMCON Procedures

(a) Implement the following procedures to determine the appropriate HERO EMCON to set:

1. Identify the HERO status of ordnance item(s) involved in the operation. (see enclosure (2)).

2. For ordnance item(s) listed as HERO UNSAFE/UNRELIABLE or HERO SUSCEPTIBLE:

a. Identify the HERO zone where the ordnance operation will occur. (see enclosure (3)).

b. Select the proper HERO Condition associated with the HERO zone and HERO classification. (see enclosure (4)).

c. Apply the appropriate HERO EMCON procedures. (see enclosure (5)).

3. For ordnance items(s) listed as HERO SAFE, set HERO CONDITION (0). (see enclosure (4)).

4. Item(s) listed as "No HERO Requirement" require no HERO EMCON.

5. For ordnance item(s) not listed in enclosure (2), refer to reference (c).

(b) HERO EMCON. The following general procedures apply for implementation:

1. The HERO Officer, ESO, or CDO will be notified 24 hours prior to routine implementation of a HERO Condition by the facility's ammunition and explosives (A&E) personnel. The commencement time and automatic expiration time will require a minimum of 30 minutes notice by the using activity.

2. The HERO Officer will contact all activities impacted by HERO (e.g., stationary antenna/transmitter systems) unless specifically exempt in enclosure (6).

3. In the event of an ordnance accident involving an ordnance carrier along the ordnance transportation route, the appropriate HERO UNSAFE/UNRELIABLE ORDNANCE Condition defined in enclosures (4) and (5) will be set by the ESO, HERO Officer, or CDO and will remain in effect until EOD personnel have completed a Render Safe Procedure or determined the EMCON is no longer required.

4. The ESO, HERO Officer, or CDO will notify all ordnance accident response units to maintain a minimum separation distance of 150 feet from the accident site when three very high frequency mobile radios are in use, and 50 feet when three portable radios are in use.

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(6) Emergency Condition

(a) An Emergency Condition exists when ordnance that contains EIDs with unknown HERO characteristics, or ordnance known to be HERO UNSAFE/UNRELIABLE, HERO SUSCEPTIBLE, or HERO SAFE has been involved in a mishap that causes the condition of the ordnance to be in question.

(b) In the event of an EMERGENCY CONDITION, suspect ordnance will be classified as HERO UNSAFE/UNRELIABLE ORDNANCE and the appropriate HERO Condition for the affected zone will be set, per enclosures (4) and (5).

(c) The HERO Officer or CDO will notify the appropriate personnel of the prescribed HERO Condition.

(d) The ESO, in conjunction with EOD personnel, will determine when the suspect ordnance is HERO SAFE and control the power-up of antenna/transmitter systems.

5. Administration and Logistics. Recommendations concerning the contents of this Order are invited. Such recommendations shall be forwarded to the CG, MCIEAST-MCB CAMLEJ (Attn: AC/S G-4, Operations, ESO), via the appropriate chain of command.

6. Command and Signal

a. Command. This Order is applicable to all activities which handle, store, transport, or conduct the emergency destruction of A&E aboard Camp Lejeune and to all units and organizations utilizing the Camp Lejeune ASP.

b. Signal. This Order is effective the date signed.



D. L. THACKER, JR.  
Deputy Commander

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General HERO Requirements

1. The following requirements apply to all ordnance operations involving the presence, handling, and loading/unloading of ordnance unless otherwise specified in reference (d).

a. Ordnance evolutions must be planned so there is a minimum of ordnance exposure to the EMEs.

b. Avoid touching any exposed firing contact, wiring, or other exposed circuitry with any part of the body or with any metallic object.

c. Ensure all open electrical connectors on the ordnance are covered with non-shorting caps.

d. Ordnance will not be assembled/disassembled in an EME.

e. Ignitors, primers, detonators, and other items containing EIDs will not be stowed in magazines that have flexible waveguides routed through them.

2. Transport and store HERO UNSAFE/UNRELIABLE ORDNANCE in sealed all-metal containers.

3. When transporting HERO SUSCEPTIBLE ORDNANCE, comply with the ordnance handling requirements listed in chapter 7 of reference (c), and reference (a).

4. Establish a HERO liaison at each tenant activity to document and monitor future emitter and ordnance operation changes within the activity. This point of contact should relate all such changes to the MCB CAMLEJ ASP OIC.

5. The ASP OIC should coordinate the HERO program and account for all MCB CAMLEJ and tenant command information concerning ordnance inventory/operations and antenna/transmitter systems present. Additionally, the ASP OIC should ensure future transmitter and antenna changes at this facility are submitted for HERO review, in accordance with reference (b).

6. Post and maintain HERO warning signs at all entrance gates to ordnance areas.

7. Observe the HERO separation distances listed in enclosure (6) for cellular telephones and mobile and portable radios, and affix HERO warning labels stating separation distances for HERO UNSAFE/UNRELIABLE and HERO SUSCEPTIBLE ORDNANCE to device.

8. The MCIEAST-MCB CAMLEJ Frequency Manager will maintain control over the number, type, and placement of temporary emitter systems installed aboard MCB CAMLEJ. Ensure the calculated HERO safe separation distances are maintained between the antennas and ordnance operations. [See chapter 2, paragraph 2-2.1 of reference (c).]

9. The MCIEAST-MCB CAMLEJ Frequency Manager will ensure that operators of privately owned amateur and CB radios and cellular telephones are familiar with HERO and safe separation distance requirements for their particular radio or telephone.

10. Ensure that radio systems installed in ordnance handling vehicles maintain the minimum 10-foot antenna-to-ordnance separation distance required for HERO SAFE ORDNANCE. [See chapter 7, paragraph 7-3.2 of reference (c).]

11. Ensure that operators, handlers, and riggers transferring ordnance maintain a minimum safe separation distance of 33 feet (10 meters) from HERO UNSAFE/UNRELIABLE ORDNANCE when using single portable radios operating in the 136-174 MHz frequency range and at a maximum output power of two watts. For the use of other single portable radios, refer to enclosure (6) or chapter 2, paragraph 2-2.1 of reference (b), for applicable safe separation distances.

12. Prior to conducting geophysical surveys for unexploded ordnance (UXO) using equipment with electromagnetic transmitting detection/location (ground-penetrating radar, ground conductivity meters, etc.) systems, the MCIEAST-MCB CAMLEJ AC/S, G-6 will contact NOSSA, N84, for HERO safety guidance.

13. Any changes to bases antenna/transmitter system or ordnance configurations are subject to the requirements cited in reference (c). This applies even if an activity moves from one site to another within the confines of the facility.

14. For transmitters and ordnance not specifically addressed in this report, see reference (b) for HERO guidance.

15. Cellular telephones and personal pagers should not be operated within ordnance facilities. It is recommended that passive pagers be used to contact personnel in ordnance facilities.

16. Keyless entry systems should not be radiated within ordnance facilities. It is recommended that these systems not be allowed into ordnance facility work areas.

17. If HERO UNSAFE/UNRELIABLE or HERO SUSCEPTIBLE ORDNANCE is exposed on the flight line or in the hangars, silence or apply the HERO separation distances listed in enclosure (6) for transmitters on all aircraft. Exceptions are very high frequency (VHF) and ultra high frequency (UHF) transmitters operating at less than 20 watts output power if HERO UNSAFE/UNRELIABLE ORDNANCE is exposed or transmitters operating at less than 40 watts output power if HERO SUSCEPTIBLE ORDNANCE is exposed. All transmitters may operate into dummy loads.

18. In the event of an ordnance accident, ensure that response units maintain a minimum separation distance of 150 feet from the accident site when three or more VHF/UHF mobile radios are in use, and 50 feet when three or more portable VHF radios are in use. For single VHF radio use, see the applicable separation distances listed in enclosure (6).

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NOMENCLATURE

A	Bombs, Components, and Countermeasures
AAC	Antiaircraft, common
A/C, ACFT	Aircraft
AC	Aircraft, common
AD, ADF	Auxiliary Detonating Fuze
AGM	Air-surface Attack Missile
AIM	Air Intercept-aerial Missile
AN/ALE	Army/Navy - air-launched, expendable
ANTI-PERS, APERS	Antipersonnel
APDS	Armor Piercing, Discarding
APERS	Antipersonnel
API	Armor-Piercing Incendiary
APT	Armor-Piercing Tracer
ASSY, AY	Assembly
ATM	Air Training Missile
AUR	All-Up Round
AV	Attack fighter aircraft
B	Military Pyrotechnics
BBU	Explosive Item unit
BCU	Battery Cooling Unit
BDU	Simulated bomb
BLP	Blind-Loaded and Plugged
BSU	Munitions stabilizing and retarding device unit
C	Military Chemicals
CAL	Caliber
CBU	Cluster Bomb Unit
CCG	Computer Control Group
CCU	Actuator Cartridge
CH	Channel
CHG	Charge
CLASS	Classification
CNTR	Container
CNU	Shipping and Storage Container
C/O	Consist(s) of
CO	Company
COMB	Combination
COMP	Composition
CP	Case-percussion
CS	Tear gas
CS-1	Tear gas (super)
CTG	Cartridge
CVT	Controlled variable time Fuze
D	Underwater Sound Signals, Sonobuoys, and Components
DBL	Double
DEA	Drug Enforcement Agency
DEMO	Demolition
DET	Detonator
DICASS	Direction Command Active Sonobuoy System
DoDIC	Department of Defense Identification Code
DP	Dual-Purpose
DWG	Drawing
E	Demolition Explosives and Materials

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NOMENCLATURE (Contd)

EA	Each
EOD	Explosive Ordnance Disposal
ERDL	Extended Range Data Link
F/	For
FCDC	Flexible, Confined Detonating Cord
FL	Flashless
FLU	Flotation Unit
FMLY	Formerly
FMU	Fuze Munition Unit
FRAG	Fragmentation
FREQ	Frequency
FT	Feet
FWD	Forward
FZ	Fuze
G	Underwater Mines and Components
GA	Gauge
GAU	Gun Aircraft Unit
GN, GR	Grain
GP	General-Purpose
GRAN	Granular
GW	Guided Weapon
H	Cartridges and Cartridge-Actuated Devices
HARM	High-Speed Anti-Radiation Missile
HC	High Capacity
HE	High Explosive
HEDP	High Explosive Detonating Point
HEI	High Explosive, Incendiary
HERO	Hazards of Electromagnetic Radiation to Ordnance
HOW	Howitzer
HR	Hour
I, INC	Incendiary
IGN, INGR	Ignition, Igniter
ILLUM	Illuminating
IN	Inch
IR	Infrared
J	Aircraft Rockets and Components
JAU	Initiator, Cartridge-Actuated
L	Marine Corps Ammunition
LAU	Aircraft-Installed Launcher
LB	Pound
LDD	Loaded
M	TOMAHAWK Cruise Missile and Components
MAU	Miscellaneous Armament Unit
MBEU	Multiple Bomb Ejection Unit
MDP	Miniature Double Plug
MECH	Mechanical
MG	Machine Gun
MIN	Minute
MK	Mark
MM	Millimeter

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NOMENCLATURE (Contd)

MOD	Model/Modification
MSL	Missile
MTL	Metal
MTR	Motor
MXU	Miscellaneous Units
NALC	Navy Ammunition Logistic Code
NATO	North Atlantic Treaty Organization
NAVAIR	Naval Air Systems Command
NAVSEA	Naval Sea Systems Command
NO	Number
NON-ELECT	Non-Electric
NON FRAG	Non-Fragmentation
O	Miscellaneous Ammunition Components and Containers
OA	Operational Assembly
OP	Ordnance Publication
OZ	Ounce
P	Small Arms and Landing-Force Ammunition
PD, PDF	Point-Detonating Fuze
PGU	Programmer Unit
PIBD	Point-Initiating, Base Detonating
P/N	Part Number
PRAC	Practice
PROJ	Projectile
PROP	Propellant
Q	Gun Ammunition, 20 to 4-inch
R	Gun Ammunition, over 4-inch
RBOC	Rapid Blooming Offboard Chaff
RD	Round
REF	Reference
REQ.	Requirement
RF	Rapid-Fire
RKT	Rocket
RR	Radar Reflector
S	Torpedoes and Components
SEC	Second
SF	Slow-Fire
SMAW	Shoulder-Mounted Antitank Weapon
SMDC	Shielded, Mild Detonating Cord
SMK	Smoke
SQ	Super-Quick
STL	Steel
SUS	Signal Underwater Sound
SUSP	Suspension
SUU	Suspension and Release Unit
SWU	Switch Unit
T	Surface-Launched Guided Missiles and Components
T, TR	Tracer
TACT	Tactical
TNT	Trinitrotoluene
TOW	Tube-Launched, Optically Tracked, Wire-Guided
TP	Target Practice

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NOMENCLATURE (Contd)

TRNR	Trainer
UK	United Kingdom
V	Air-Launched Guided Missiles and Components
VT	Variable Time Fuze
W/	With
WAFFAR	Wrap-Around, Folding-Fin Aircraft Rocket
W/O	Without
WP	White Phosphorus
WTU	Warhead Training Unit
WX	Weather
WX PROOF	Weatherproof
Y	Countermeasures and Decoys

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DODIC	Nomenclature	Platform	HERO Class
A011	CTG., 12 GA SHOTGUN, NO.00 BUCKSHOT (USMC)		NO REQUIREMENT
A011	CTG., 12 GA SHOTGUN, NO.00 BUCKSHOT XM162 (USMC)		NO REQUIREMENT
A011	CTG., 12 GA SHOTGUN, NO.00 BUCKSHOT M162 (USMC)		NO REQUIREMENT
A011	CARTRIDGE, 12 GA SHOTGUN, NO. 00 BUCKSHOT XM162	MAN	NO REQUIREMENT
A023	CTG., 12 GA SHOTGUN, 1 OZ SLUG LOADED, W/PLASTIC CASE NSN 1305-01-282-1256 P/N X12RS15 (2T COG CLASS X) NSN 1305-01-386-5604 P/N 6552019		NO REQUIREMENT
A024	CTG., MK 246 MOD 0, 12 GA SHOTGUN LOCKBUSTER, MOD LBC .05 LBS POWDERED METAL FILLER, IN MTL BOX NSN 1305-01-431-5624 P/N 7232080 NSN 1305-01-282-1257 P/N LB-C		NO REQUIREMENT
A059	CTG., 5.56MM, BALL, M855, CLIPPED, (ALL M855 CARTRIDGES IDENTIFIED BY GREEN BULLET TIP) NSN 1305-01-155-5459 P/N 9354626 OR 9342868 OR 9342867 NSN 1305-01-155-5462 P/N 9357724		NO REQUIREMENT
A060	DUMMY CTG., 5.56MM, M199, SINGLE RD		NO REQUIREMENT
A062	CTG., 5.56MM, M855, LINKED W/M27 LINKS F/SAWS		NO REQUIREMENT
A062	CTG., 5.56MM, M855, LINKED 200 ROUND BELT IN M8 METAL CONTAINER, 2 CONTAINERS PER WIREBOUND BOX		NO REQUIREMENT
A063	CTG., 5.56MM, TRACER, M856, (ALL M856 CARTRIDGES ARE IDENTIFIED BY AN ORANGE TIP)		NO REQUIREMENT
A064	CTG., 5.56MM, LINKED W/M27 LINKS, 4-BALL M855 TO 1 TRACER M856 NSN 1305-01-131-5246 P/N 9349300 NSN 1305-01-156-7584 P/N 9354587 NSN 1305-01-252-0153 P/N 9342863 OR 9342862 OR 12597656		NO REQUIREMENT
A071	CTG., 5.56MM, BALL, M193, 10 RD CLIP		NO REQUIREMENT
A075	CTG., 5.56MM, BLANK, LINKED, W/M27 LINKS		NO REQUIREMENT
A080	CTG., 5.56MM, BLANK, XM200 OR M200 SERIES, SINGLE ROUND		NO REQUIREMENT
A080	CTG., 5.56MM, BLANK, XM200, SINGLE RD		NO REQUIREMENT
A085	CTG., CAL .22 SHORT, BLANK NSN 1305-00-093-2958 P/N 10542442 OT COG NSN 1305-01-137-1677 P/N DL3139729 OT COG, (2T COG DELETED 8/21/00)		NO REQUIREMENT
A086	CTG., CAL .22, BALL, LONG RIFLE NSN 1305-00-819-6017 P/N 11820430		NO REQUIREMENT

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A093	CTG., CAL .22, BALL, LONG RIFLE, MATCH GRADE, PISTOL, REVOLVER (USMC)		NO REQUIREMENT
A093	CTG., CAL .22, BALL, LONG RIFLE, PISTOL, MATCH GRADE (USMC)		NO REQUIREMENT
A102	CTG., 7.62MM BALL INTERMEDIATE DESIGNED F/AK47 RIFLE NSN 1305-00-182-3096 P/N 11731648		NO REQUIREMENT
A103	CTG., 7.62MM BLANK F/AK-47 SNGL RD		NO REQUIREMENT
A110	CTG., 7.62MM BLANK M82 PKG 5/CLIP, 12 CLIP/BAND T5, 7 BAND/MTL BX M2A1, 2 BX, 840 CTG/ WRBND BX.		NO REQUIREMENT
A111	CTG., 7.62MM, BLANK M82, NATO, LINKED FOR M60 MG 1305-01-181-1750 P/N 9381581		NO REQUIREMENT
A111	CTG., 7.62MM, BLANK M82, NATO, LINKED FOR M60 MG. PACKAGED 100 ROUNDS PER BELT M13, 1 BELT PER CARTON, 1 CARTON PER BAND T4, 2 BANDS PER M19A1 METAL BOX, 4 M19A1 BOXES PER WIREBOUND BOX		NO REQUIREMENT
A112	CTG., 7.62MM, BLANK, M82, SINGLE RD NSN 1305-00-008-8894 P/N 8597283 DELETED 4/01 NSN 1305-00-882-5677 P/N 8597283 NSN 1305-00-990-5594 P/N 10523082 OR 8597283		NO REQUIREMENT
A124	CTG., 7.62MM, TRACER, CTN, F/M14 RIFLE, M60 MG		NO REQUIREMENT
A130	CTG., 7.62MM, BALL M59 OR M80, F/RIFLE M14, 5 RD CLIP		NO REQUIREMENT
A131	CTG., 7.62MM, BALL M59 OR M80 AND TRACER M62 LINKED W/M13 LINK, 4 TO 1 RATIO, F/M60 AND M73 MG NSN 1305-00-005-8007 P/N 8595543 OR 7553705		NO REQUIREMENT
A135	DUMMY CTG., 7.62MM, M63, SINGLE RD		NO REQUIREMENT
A143	CTG., 7.62MM, BALL M80 LINKED F/M60 AND M73 MG		NO REQUIREMENT
A146	CTG., 7.62MM TRACER, LINKED, M62, F/M60/M219 MGS, PKG100/BELT M13, 1BELT/CNTR, 1CTN/BAND, 2 BAND/MTL BX M19 SERIES, 4 BX 800 CTG/WDN BX		NO REQUIREMENT
A159	DUMMY CTG., 7.62MM, M172, LINKED W/M13 LINK, F/MG M60		NO REQUIREMENT
A191	CTG., CAL .30 WIN MAG, MATCH 54000 PSI MAX, 2950-3050 FPS BALLISTIC COEFFICIENT .560 TO .590 180-200 GRAIN HOLLOW POINT BOAT TAIL TYPE OF OGIVE TANGENT OR SECANT 1 MINUTE OF ANGLE TO 1000 YARDS HAND LOADED AND SERIALIZED TO EACH RIFLE FOR LONG RANGE MATCH		NO REQUIREMENT
A260	CTG., 9MM, SUBSONIC, JACKETED HOLLOW POINT		NO REQUIREMENT

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A358	CTG., 9MM, PRACTICE M939, W/TRACER, F/AT4		NO REQUIREMENT
A359	DUMMY CTG., 9MM, M917		NO REQUIREMENT
A363	CTG., 9 MM BALL, M882 NSN 1305-01-467-5408 P/N 9345211		NO REQUIREMENT
A363	CTG., 9MM BALL, M882. PACKAGED 50 PER CARDBOARD BOX, 20 BOXES PER M2A1 METAL BOX, 2 M2A1 BOXES PER WIREBOUND BOX		NO REQUIREMENT
A400	CTG., CAL .38, SPECIAL BALL, M41		NO REQUIREMENT
A400	CTG., CAL .38, SPECIAL, BALL M41 NSN 1305-00-007-5557 P/N 7553580		NO REQUIREMENT
A475	CTG., CAL .45, BALL, M1911, GRADE 1 NSN 1305-00-555-1225 P/N 6000503		NO REQUIREMENT
A475	CTG., CAL .45, BALL, M1911, GRADE 1		NO REQUIREMENT
A482	CTG., CAL .45, AUTOMATIC, BALL, 185 GRAIN, WAD CUTTER, MATCH GRADE NSN 1305-00-540-7862 P/N MIL-C-3030-1		NO REQUIREMENT
A483	CTG., CAL .45, BALL, M1911, MATCH GRADE		NO REQUIREMENT
A501	DUMMY CTG., CAL .45, M1921 NSN 1305-00-028-6639 P/N 6006253 2T COG NSN 1305-00-028-6641 P/N 7691565 OT/2T COG		NO REQUIREMENT
A531	CTG., CAL .50, API, M8, (NSN 1305-00-028-6457; 1305-00-555-7053; 1305-00-093-3030)		NO REQUIREMENT
A541	CTG., CAL .50 API-T M20 NSN 1305-00-028-6492 P/N 7672003 NSN 1305-00-028-6494 P/N 7672003		NO REQUIREMENT
A552	CTG., CAL .50, BALL, GRADE AC, SINGLE RD		NO REQUIREMENT
A555	CTG., CAL .50 BALL M33, LINKED W/M9 LINKS (USMC)		NO REQUIREMENT
A560	CTG., CAL .50, DUMMY, SINGLE RD		NO REQUIREMENT
A560	DUMMY CTG., CAL .50, SINGLE RD USMC		NO REQUIREMENT
A576	CTG., CAL .50, LINKED, LINK M2, API M8/API-T M20, GRADE AC IN M2A1 METAL BOX		NO REQUIREMENT
A576	CTG., CAL .50, LINKED, LINK M2, 4-API M8/1-API-T M20, 105 IN M2A1 METAL BOX, 2 M2A1 BOXES PER WIREBOUND BOX		NO REQUIREMENT
A598	CTG., CAL .50 BLANK, M1A1, LINKED W/M9 LINKS NSN 1305-01-078-4879 P/N 9329735		NO REQUIREMENT
A606	CTG., CAL .50 MK 211 MOD 0, API, SINGLE ROUNDS FOR SNIPER RIFLE		NO REQUIREMENT
A940	CTG., 25MM TPDS-T, M910, LINKED FOR THE M242 MACHINE GUN NSN 1305-01-426-4359		NO REQUIREMENT
A940	CTG., 25MM TPDS-T, M910 FOR M242 MACHINE GUN. 1 30 ROUND BELT PER PA125 METAL CONTAINER. NSN 1305-01-286-5185, NSN OT 1305-01-426-4359		NO REQUIREMENT
A967	DUMMY CTG., 25MM, M794, LINKED W/M28 LINKS		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
AA11	CTG., 7.62MM, M118 LONG RANGE, SPECIAL BALL		NO REQUIREMENT
AA12	CTG., 9MM, FX MARKING, RED (0T AND 2T COG)		NO REQUIREMENT
AA21	CTG., 9MM, FX MARKING, BLUE		NO REQUIREMENT
AA29	CTG., 12 GA, BEAN BAG, NON-LETHAL		NO REQUIREMENT
AA30	CTG., 12 GA LAUNCHER, F/GRENADE NON-LETHAL NSN 1305-01-454-0187 P/N HS/4083/C97/1136 NSN 1305-01-464-8389 P/N 100617		NO REQUIREMENT
AA31	CTG., 12 GA RUBBER FIN-STABILIZED, NON-LETHAL		NO REQUIREMENT
AA38	CTG., .50 CALIBER SLAP, TRACER, M962 NSN 1305-01-462-0651		NO REQUIREMENT
AA40	CTG., 5.56MM, JACKETED FRANGIBLE ROUND		NO REQUIREMENT
AA40	CTG., 5.56MM NON-JACKETED FRANGIBLE		NO REQUIREMENT
AA53	CTG., 5.56MM SPECIAL BALL, LONG RANGE MK 262 MOD 0, MILITARY PACK. PACKAGED 20 CTG/CARTON 41 CARTONS/M2A1 AMMO BOX, 2 M2A1 AMMO BOXES/WIREBOUND BOX		NO REQUIREMENT
AA53	CTG., 5.56MM SPECIAL BALL, LONG RANGE, MK 262 MOD 1 CANNELURED PROJECTILE, MILITARY PACK. PKGD 20 CTGS/CARTON, 41 CARTONS/M2A1 AMMO BOX, 2 M2A1 AMMO BOXES/WIREBOUND BOX		NO REQUIREMENT
AA53	CTG., 5.56MM SPECIAL MATCH. PKGD 50 RDS PER PLASTIC TRAY		NO REQUIREMENT
AA54	CTG., 12 GA		NO REQUIREMENT
AA55	CTG., 12 GA, MK 242 MOD 0, INERT		NO REQUIREMENT
AA60	CTG., 12 GA, 3 INCH NO. 00 BUCK. PKGD 5 ROUNDS PER FIBERBOARD BOX, 24 FIBERBOARD BOXES (120 ROUNDS PER M2A1 METAL BOX, 2 METAL BOXES (240 ROUNDS) PER WIREBOUND BOX.		NO REQUIREMENT
AA62	CTG., EOD, 12 GA, MK 274 MOD 0, ULTRA VELOCITY SLUG, CONSISTING OF LEAD BASED PROJECTILE IN BRASS AND PLASTIC CTG CASE W/CENTERFIRE PRIMER AND 140 GRAINS OF PROPELLANT. USED IN IMPROVISED EXPLOSIVE DEVICE (IED) STANDOFF DISRUPTER. PACKAGED 75 CTG PER M2A1 AMMUNITION CONTAINER		NO REQUIREMENT
AA63	CTG., EOD, 12 GA, MK 275 MOD 0. DISINTEGRATING PROJ. (AVON), CONSISTING OF FRANGIBLE PLASTER & STEEL SHOT PROJ. LOADED IN A BRASS & PLASTIC CTG CASE W/CENTERFIRE PERCUSSION PRIMER & 65 GRAINS OF PROPELLANT USED IN IM PROVISED EXP. DEVICE (IED) STANDOFF DISRUPTER. PKG 75 CTG PER M2A1 AMMO CNTR		NO REQUIREMENT

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DODTC	Nomenclature	Platform	HERO Class
AA64	CTG., 12 GA MK 276 MOD 0. LOW VELOCITY BLANK, CONSISTING OF A BRASS AND PLASTIC CTG CASE W/CENTERFIRE PERCUSSION PRIMER AND 20 GRAINS OF PROPELLANT. USED IN IMPROVISED EXPLOSIVE DEVICE (IED) STANDOFF DISRUPTER PKG 160 CTG PER M2A1 AMMUNITION CONTAINER.		NO REQUIREMENT
AA66	CTG., 12 GA, MK 278 MOD 0 (BLACK POWDER BLANK). USED IN IMPROVISED EXPLOSIVE DEVICE (IED) STANDOFF DISRUPTOR. 160 CARTRIDGES PER M2A1 AMMO CONTAINER.		NO REQUIREMENT
AA67	CTG., 5.56MM SPECIAL MATCH, MOBYBDENUM COATED. PACKAGED 50 ROUNDS PER PLASTIC TRAY. 1 TRAY (50) RDS PER FIBERBOARD CARTON, 10 FIBERBOARD CARTONS (500) RDS PER FIBERBOARD BOX. (COMMERCIAL PACK) THIS IS THE SAME AS AA53 014743856 EXCEPT FOR MOBYDENUM COATING.		NO REQUIREMENT
AA68	CTG., 5.56MM		NO REQUIREMENT
AB39	CTG., 7.62MM SP BALL		NO REQUIREMENT
AB50	CTG., 7.62MM BALL, RIFLE, BARRIER		NO REQUIREMENT
AX10	DUMMY CTG., SMAW , 9MM, SPOTTING RIFLE, INTERIM MK218 PKG 10-RDS W/1 EMPTY MAGAZINE PER M19A1 MTL BX, 4-BXS 40-RDS PER WRBND WDN BX		NO REQUIREMENT
AX11	CTG., SMAW , FOR SPOTTING RIFLE, 9MM, MK 217 MOD 0		NO REQUIREMENT
AX14	PRIMER, PERCUSSION, 12 GA, SHOTGUN, BATTERY CUP TYPE W209 NSN 1390-01-466-9197 P/N NONE LISTED		NO REQUIREMENT
B472	DUMMY CTG., 40MM, M385, W/M169 CTG CASE		NO REQUIREMENT
B504	CTG., 40MM, GREEN STAR PARACHUTE, M661 F/LAUNCHER M79/M203		NO REQUIREMENT
B505	CTG., 40MM, RED STAR PARACHUTE, M662, F/LAUNCHER M79/M203		NO REQUIREMENT
B506	CTG., 40MM, RED SMOKE GROUND MARKER W/M733 IMPACT FUZE, F/LAUNCHER M79 AND M203		NO REQUIREMENT
B508	CTG., 40MM, GREEN SMOKE GROUND MARKER W/M733 IMPACT FUZE, F/LAUNCHER M79 AND M203		NO REQUIREMENT
B509	CTG., 40MM, YELLOW SMOKE GROUND MARKER W/M733 IMPACT FUZE, F/LAUNCHER M79 AND M203		NO REQUIREMENT
B519	CTG., 40MM, PRACTICE, M781, SINGLE RD, PLASTIC CTG CASE, YELLOW DYE FILLER, W/O TRACER, F/M79 AND M203 LAUNCHER		NO REQUIREMENT
B535	CTG., 40MM, FIXED WHITE STAR PARACHUTE, XM583		NO REQUIREMENT

DODIC	Nomenclature	Platform	HERO Class
B542	CTG., 40MM, M430, HEDP, COMP A5, LINKED W/M16A2 LINKS, F/MK 19 MOD 3 MACHINE GUN, W/B549 PERCUSSION FUZE		NO REQUIREMENT
B542	CTG., 40MM, M430, HE DP COMP A5 LDD, LINKED W/M16A2 LINKS, F/MK 19 MOD 3 MACHINE GUN	MAN	NO REQUIREMENT
B542	CTG., 40MM, M430, HE DP COMP A5 LDD, LINKED W/M16AL LINKS	MAN	NO REQUIREMENT
B542	CTG., 40 MM, M430A1, HEDP, LINKED W/M16A2 LINKS	MAN	NO REQUIREMENT
B542	CTG., 40MM, HEDP, COMP A5, M430, LINKED W/M16A2 LINKS	MAN	NO REQUIREMENT
B542	CTG., 40MM, HEDP, COMP A5, M430A1, LINKED W/M16A2 LINKS	MAN	NO REQUIREMENT
B542	CTG., 40MM, HEDP, COMP A5, M430A1, LINKED W/M16A2 LINKS	PERSONNEL-BORNE	NO REQUIREMENT
B546	CTG., 40MM, FIXED, HEDP, XM433E1, W/FUZE PIBD XM550E1, F/GRENADE LAUNCHER M79/M203		NO REQUIREMENT
B584	CTG., 40MM, TARGET PRACTICE M918, LINKED W/M16A2 LINK		NO REQUIREMENT
B643	CTG., 60MM, HE, M888 W/FZPD, M935		NO REQUIREMENT
B647	CTG., 60MM, ILLUMINATING, W/FZ MTSQ M776, FIN ASSY, F/MORTAR M224		NO REQUIREMENT
B650	CTG., 40MM, BLANK SALUTING, 200 GRAM BLACK POWDER CHARGE NSN 0T 1310-01-240-5741 P/N 1863095 NSN 2T 1310-01-240-5741 BRASS OR STEEL CASE P/N 1863095		NO REQUIREMENT
BA07	CTG., 40MM, NON-LETHAL FOAM RUBBER BATON NSN 1310-01-453-9168 P/N HS/4083/C97/1128 NSN 1310-01-500-7532		NO REQUIREMENT
BA07	CTG., 40MM, FOAM RUBBER BATON NON-LETHAL		NO REQUIREMENT
BA08	CTG., 40MM RUBBER BALL NON-LETHAL		NO REQUIREMENT
BA08	CTG., 40MM, NON-LETHAL, RUBBER BALL		NO REQUIREMENT
BA12	CTG., 40MM PRACTICE, XM1023 LINKED 32 RDS PER PA120 METAL CONT.		NO REQUIREMENT
BA12	CTG., 40MM PRACTICE, MK 281 MOD 2 LINKED		NO REQUIREMENT
C025	CTG., 75MM BLANK, 1 LB CHARGE W/M337A1 BRASS CTG CASE.PKD 1 RD/FBR CNTR/15 CNTRS PER WOODEN BOX		NO REQUIREMENT
C379	CTG., MORTAR, 120MM HE, M934, W/M734 MULTI-OPTION FUZE	MAN	SAFE
C440	CTG., 105MM BLANK M395, F/HWTZR M2A1, M2A2, M4, M4A1, M49 PKG 1/FBR CNTR M34, 10 CNTR, 10 CTG/WDN BX.		NO REQUIREMENT
C484	CTG., 81MM INFRARED ILLUMINATING XM816	MAN	NO REQUIREMENT
C625	CTG., 120MM, ILLUMINATING M930 W/FUZE M776 PACKAGED 1 CTG PER PA167 OR PA153 FIBER TUBE		NO REQUIREMENT

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C785	CTG., 120MM TPCSDS-T M865	M1A1/2	SAFE
C868	CTG., 81MM, HE COMPOSITION B, M821 W/FUZE MULTI-OPTION M734	LAV-M	SAFE
C868	CTG., 81MM M821A2 W/M734A1 MULTI-OPTION FUZE	LAV-M	SAFE
C868	CTG., 81MM M821A1 W/M734 MULTI-OPTION FUZE	PERSONNEL-BORNE	SAFE
C868	CTG., 81MM M821A2 W/M734A1 MULTI-OPTION FUZE	PERSONNEL-BORNE	SAFE
C868	CTG., 81MM, HE COMPOSITION B, M821 W/FUZE MULTI-OPTION M734	PERSONNEL-BORNE	SAFE
C870	CTG., 81MM, SMOKE, RP, M819, W/FZ MTSQ M772		NO REQUIREMENT
C870	CTG., 81MM, SMOKE, RP, M819, W/FZ MTSQ M772		NO REQUIREMENT
C870	CTG., 81MM, SMOKE, RP, M819, W/FZ MTSQ M772	PERSONNEL-BORNE	NO REQUIREMENT
C871	CTG., 81MM, ILLUMINATING, M853, W/FZ TIME M768		NO REQUIREMENT
C875	CTG., 81MM, PRACTICE M879, W/FUZE PD M751, WHD INERT PROP CHG M220		NO REQUIREMENT
C875	CTG., 81MM, PRACTICE M879, W/FUZE PD M751, WHD INERT PROP CHG M220	PERSONNEL-BORNE	NO REQUIREMENT
C995	LAUNCHER AND CTG., 84MM, M136 (AT4) (USMC)	MAN	SAFE
CA31	CTG., 120MM, ANTI-PERSONNEL TPMP-T, M1002	M1 TANK	SAFE
CA38	CTG., 120MM, CANISTER, M1028	M1A1/2	SAFE
CA45	CTG., 120MM MORTAR, HE, XM1101 WITH M762A1 FUZE	120 MM MORTAR ROUND	SAFE
CA47	CTG., 120MM MORTAR, PRACTICE, XM1107 W/M762A1 FUZE	120 MM MORTAR ROUND	SAFE
CA49	CTG., 120MM MORTAR SMOKE (WP) XM1103	MAN	SAFE
D505	PROJECTILE, 155MM ILLUM M485A2 (M485E2), W/O BURSTER, FUZE, OR SUPPL CHG, F/HOWITZERS M1, M1A1, M45 AND CANNON M126 PKG 8/PLT		NO REQUIREMENT
D528	PROJECTILE, 155MM SMOKE, WP, M825, SCREENING, PKG 8-RDS PER SPECIAL PURPOSE WDN PALLET		NO REQUIREMENT
D528	PROJECTILE, 155MM, WP, SMOKE, SCREENING, M825A1 W/O FUZE		NO REQUIREMENT
D532	CHARGE, PROPELLING, 155MM, RED BAG, ZONE 8SC, M203		NO REQUIREMENT
D544	PROJECTILE, 155MM, HE, W/O FZ, F /HOWITZER NSN 1320-01-257-4222 P/N 9216352		NO REQUIREMENT
D550	PROJECTILE, 155MM, SMOKE, WP, M110A2, W/O FUZE, 8 RDS PER PALLET, 3 PALLETS PER BUNDLE F/HOWITZER		NO REQUIREMENT

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DA12	CHARGE, PROPELLING, M231 FOR 155MM HOWITZER in METAL case.		NO REQUIREMENT
DA13	CHARGE, PROPELLING M232A1 FOR 155MM HOWITZER	155MM ARTILLERY SYSTEM	NO REQUIREMENT
DWEC	CTG., 12 GA, MK 277 MOD 0 (ENHANCED BLANK). USED IN IMPROVISED EXPLOSIVE DEVICE (IED) STANDOFF DISRUPTOR. 75 CTGS PER M2A1 AMMO CONTAINER. FOR EOD USE ONLY.		NO REQUIREMENT
DWEE	CTG., 12 GA, MK 280 MOD 0 (ALUMINUM SLUG). USED IN IMPROVISED EXPLOSIVE DEVICE (IED) STANDOFF DISRUPTOR. 75 CTGS PER M2A1 AMMO CONTAINER. FOR EOD USE ONLY		NO REQUIREMENT
DWEI	PYROTECHNIC LEAD SPOOL, ASSEMBLY, MK 34 MOD 0 (FOR PYROTECHNIC LEAD, 1000 FT) PACKAGED 2 REELS PER CNU - 405/E AMMO BOX.		NO REQUIREMENT
DWGU	TAIL CHARGE ASSEMBLY FOR 120 MM MORTAR EFSS. PACKAGED 2 TCA PER PA103A2 METAL CONTAINER, 8 PA103A2 PER PALLET		NO REQUIREMENT
FZ14	GRENADE, 66MM, DISCHARGER, ANTI-RIOT, CS, L96A1	FSEP SPIRAL 2 STRYKER	SUSCEPTIBLE
FZ15	GRENADE, 66MM, DISCHARGER, ANTI-RIOT, PRACTICE L97A1	FSEP SPIRAL 2 STRYKER	SUSCEPTIBLE
G811	BODY, PRACTICE HAND GRENADE F/M69. PACKAGED 50 PER FIBERBOARD BOX		NO REQUIREMENT
G811	BODY, PRACTICE HAND GRENADE F/M69		NO REQUIREMENT
G815	GRENADE, RED PHOSPHORUS, SMK, SCREENING, UK L8A1, 96 RDS PER WOOD PALLET		UNSAFE
G815	GRENADE, RED PHOSPHORUS, SMK, SCREENING, UK L8A3, 4 RDS PER MK 2 METAL BOX		UNSAFE
G815	GRENADE, LAUNCHER, RED PHOSPHORUS, SMK, SCREENING, UK L8A3	ASSAULT BREACHER VEHICLE	SUSCEPTIBLE
G815	GRENADE, LAUNCHER, RED PHOSPHORUS, SMK, SCREENING, UK L8A1 (USMC)	ASSAULT BREACHER VEHICLE	SUSCEPTIBLE
G815	GRENADE, LAUNCHER, RED PHOSPHORUS, SMK, SCREENING, UK L8A3	LAV-AD	SUSCEPTIBLE
G815	GRENADE, LAUNCHER, RED PHOSPHORUS, SMK, SCREENING, UK L8A1	LAV-AD	SUSCEPTIBLE
G826	GRENADE, LAUNCHER, SMOKE, IR SCREENING, M76	ASSAULT BREACHER VEHICLE	SUSCEPTIBLE
G826	GRENADE, LAUNCHER, SMOKE, IR SCREENING, M76	FSEP SPIRAL 2 STRYKER	SUSCEPTIBLE
G826	GRENADE, LAUNCHER, SMOKE, IR SCREENING, M76	LAV-M	SUSCEPTIBLE
G826	GRENADE, LAUNCHER, SMOKE, IR SCREENING, M76	LIGHT ARMORED VEHICLE - ANTITANK	SUSCEPTIBLE

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G826	GRENADE, LAUNCHER, SMOKE, IR SCREENING, M76 (USMC)		SUSCEPTIBLE
G874	FUZE, HAND GRENADE, BURNING TYPE, M201 SERIES		NO REQUIREMENT
G878	FUZE DELAY, M228, FOR M69 PRACTICE HAND GRENADE, W/CONFIDENCE CLIP (USMC COG)		NO REQUIREMENT
G878	FUZE DELAY, M228, FOR M69 PRACTICE HAND GRENADE, W/CONFIDENCE CLIP (2T COG)		NO REQUIREMENT
G878	FUZE DELAY, M228, FOR M69 PRACTICE HAND GRENADE. PACKAGED 360 PER WIREBOUND BOX (USMC COG)		NO REQUIREMENT
G878	FUZE DELAY, M228, FOR M69 PRACTICE HAND GRENADE (2T COG)		NO REQUIREMENT
G881	GRENADE, HAND, FRAG, M67 W/O CONFIDENCE CLIP (USMC)		NO REQUIREMENT
G881	GRENADE, HAND, FRAG, M67	PERSONNEL-BORNE	NO REQUIREMENT
G895	GRENADE, HAND, ILLUMINATING		NO REQUIREMENT
G895	GRENADE, HAND, ILLUM		NO REQUIREMENT
G900	GRENADE, HAND, INCENDIARY, AN-M14 SERIES		NO REQUIREMENT
G911	GRENADE, HAND, OFFENSIVE MK 3A2 SERIES W/FZ M206A2		NO REQUIREMENT
G924	GRENADE, HAND, RIOT, CS1, M25A2		NO REQUIREMENT
G930	GRENADE, HAND, SMOKE, WHITE, HC, AN-M8 SERIES NSN 1330-00-171-3112 P/N 13-19-32 NSN 1330-00-219-8511 P/N 13-19-32 NSN 1330-00-540-7622 P/N 13-19-32		NO REQUIREMENT
G930	GRENADE, HAND, SMOKE, WHITE, HC, AN-M8 SERIES		NO REQUIREMENT
G930	GRENADE, HAND, SMOKE, WHITE, HC, AN-M8 SERIES	PERSONNEL-BORNE	NO REQUIREMENT
G940	GRENADE, HAND, SMOKE, GREEN, M18 SERIES (USMC)	PERSONNEL-BORNE	NO REQUIREMENT
G945	GRENADE, HAND, SMOKE, YELLOW, M18 SERIES (USMC)		NO REQUIREMENT
G945	GRENADE, HAND, SMOKE, YELLOW, M18 SERIES (USMC)	PERSONNEL-BORNE	NO REQUIREMENT
G950	GRENADE, HAND, SMOKE, RED, M18 SERIES		NO REQUIREMENT
G950	GRENADE, HAND, SMOKE, RED, M18 SERIES	PERSONNEL-BORNE	NO REQUIREMENT
G955	GRENADE, HAND, SMOKE, VIOLET, M18 SERIES (USMC)	PERSONNEL-BORNE	NO REQUIREMENT
G963	GRENADE, HAND, RIOT, CAPSULED CS, ABC-M7A2 OR PELLET CS, M7A3		NO REQUIREMENT
G982	GRENADE, HAND, SMOKE, TA, PRACTICE M83 W/FUZE M201A1. PACKED 1 PER FIBER CONTAINER, 16 FIBER CONTAINERS PER WOOD BOX.		NO REQUIREMENT
GG04	GRENADE, HAND, RUBBER BALL, NON-LETHAL		NO REQUIREMENT
GG04	GRENADE, HAND, RUBBER BALL, NON-LETHAL, M9590		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
GG05	GRENADE, HAND, BODY, PRACTICE, NON-LETHAL		NO REQUIREMENT
GG09	GRENADE, HAND, NON-LETHAL (STUN) M84. PACKAGED 3 GRENADES PER M19A1 METAL CAN, 4 CANS PER WIREBOUND BOX		NO REQUIREMENT
GG20	GRENADE, HAND, STUN, BTV-1 EL PACKAGED 10 PER M2A1 METAL CONTAINER 68 M2A1 CONTAINERS PER PALLET (680 UNITS PER PALLET)		NO REQUIREMENT
GG22	GRENADE, HAND, L68A1, GREEN SMOKE	MAN	NO REQUIREMENT
HA21	ROCKET ASSEMBLY, M72AS 21MM.		NO REQUIREMENT
HA29	ROCKET, 66MM, M72A7 LAW W/GRAZE (USMC)	PERSONNEL-BORNE	SAFE
HX05	RKT, ASSAULT (SMAW) ENCASED, 83MM, DUAL MODE, MK 3 MOD 0	MAN	SAFE
HX06	RKT, ASSAULT, ENCASED, 83MM, HEAA (SMAW) MK 6 MOD 0	MAN	SAFE
HX07	RKT, ASSAULT, ENCASED, HEAA, PRACTICE (SMAW) MK 7 MOD 0	MAN	SAFE
J143	ROCKET MOTOR, 5 INCH, MK 22 MOD 4 F/DEMOLITION LINEAR CHARGE M58A1, M68A1 MODIFIED.	ASSAULT BREACHER VEHICLE	SAFE
J143	ROCKET MOTOR, 5 IN, MK 22 MOD 4 F/DEMOLITION LINEAR CHARGE M58A1, M68A1 MODIFIED.	M353 GENERAL PURPOSE TRAILER	SAFE
J143	ROCKET MOTOR, 5 IN, MK 22 MOD 3 (USMC)	M353 GENERAL PURPOSE TRAILER	SUSCEPTIBLE
J143	ROCKET MOTOR, MK 22 MOD 3 (USA)	M353 GENERAL PURPOSE TRAILER	SUSCEPTIBLE
J143	ROCKET MOTOR, 5 IN, MK 22 MOD 4 F/DEMOLITION LINEAR CHARGE M58A1, M68A1 MODIFIED FOR USE WITH SABRE SYSTEM.		SAFE
J143	ROCKET MOTOR, 5 IN, MK 22 MOD 4 W/DET SYSTEM		SAFE
K002	ACTIVATOR, ANTI-TANK MINE, PRACTICE, M1		NO REQUIREMENT
K139	MINE KIT, APERS, PRACTICE, M68, W/ACCESSORIES (INERT MINE AND INERT BLASTING CAP) (USMC)		NO REQUIREMENT
K143	MINE, ANTI-PERS, M18A1, NONBOUNDING, NONMETALLIC (USMC)		SUSCEPTIBLE
K143	MINE, ANTI-PERSONNEL M18A1, NON-BOUNDING (USMC)	PERSONNEL-BORNE	SUSCEPTIBLE
K765	RIOT CONTROL AGENT, CS, CAPSULE		NO REQUIREMENT
K867	SMOKE POT, FLOATING, HC, M4A2 (USMC)		NO REQUIREMENT
K867	SMOKE POT, FLOATING, HC, M4A2		NO REQUIREMENT
L133	SIGNAL KIT ILLUMINATION MK 142 MOD 0, W/7 SIGNALS, WHITE MK 134 MOD 0, W/PROJECTOR, MK 31 MOD 0 HAND FIRED F/DAY AND NIGHT SIGNALING PKG 102 KITS TO MK 2 AMMO BOX		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
L283	SIGNAL, SMOKE AND ILLUMINATION, MARINE MK 124 MOD 0, DISTRESS, DAY AND NIGHT		NO REQUIREMENT
L283	SIGNAL, SMOKE AND ILLUM, MARINE, MK 124 MOD 0, DISTRESS, DAY AND NIGHT		NO REQUIREMENT
L302	SIGNAL CTG., WHITE FLARE, F/LAUNCHER KIT, SIGNAL, POCKET		NO REQUIREMENT
L304	SIGNAL CTG., GREEN FLARE F/USE W/LAU.LX11.PKG 5 SIGNALS/ PLASTIC SLEEVE, 70 SLEEVES/MTL CAN M2A1, 2 CANS 700 SIGNALS/WRBND BOX FORMERLY LX13		NO REQUIREMENT
L306	SIGNAL, ILLUM, GROUND, RED, STAR CLUSTER, M158/T133E2		NO REQUIREMENT
L307	SIGNAL, ILLUMINATION, GROUND, WHITE, STAR CLUSTER, M159/T137E2 NSN 1370-00-756-2588 P/N 8797320-2 36 PER WOODEN BOX NSN 1370-01-345-3000 P/N 8797320-2 24 PER METAL CONTAINER NSN 1370-01-345-4300 P/N 8797920 24 PER METAL CONTAINER		NO REQUIREMENT
L311	SIGNAL, ILLUMINATION, GROUND, RED, STAR, PARACHUTE, M126 NSN 1370-00-629-2336 P/N 8797968 36 PER BOX NSN 1370-01-343-1965 P/N 8797968 24 PER MTL CONTAINER		NO REQUIREMENT
L312	SIGNAL, ILLUMINATION, GROUND, WHITE, STAR, PARACHUTE, M127 NSN 1370-00-753-1859 P/N 8797968 36 PER BOX NSN 1370-01-341-5159 P/N 8797968 24 PER MTL CONTAINER		NO REQUIREMENT
L314	SIGNAL, ILLUMINATION, GROUND, GREEN, STAR CLUSTER, M125 NSN 1370-00-629-2335 P/N 8797920 36 PER BOX NSN 1370-01-341-6283 P/N 8797920 24 PER MTL CONTAINER		NO REQUIREMENT
L314	SIGNAL, ILLUM, GROUND, GREEN, STARCLUSTER, M125		NO REQUIREMENT
L323	SIGNAL, SMOKE, GROUND, RED, PARACHUTE, M129A1 SERIES		NO REQUIREMENT
L324	SIGNAL, SMOKE, GROUND, GREEN, PARACHUTE, M128A1 SERIES		NO REQUIREMENT
L367	SIMULATOR, M22, LAUNCHING, ANTITANK, GUIDED MISSILE AND ROCKET (USMC)		UNSAFE/UNRELIABLE
L367	SIMULATOR, M22, LAUNCHING, ANTITANK, GUIDED MISSILE AND ROCKET (USMC)	MAN	UNSAFE/UNRELIABLE
L495	FLARE, SURFACE, TRIP, M49 SERIES		NO REQUIREMENT
L580	MARKER, LOCATION, MARINE, MK 58 MOD 1 W/O SUSPENSION BANDS, MARKER PRODUCES YELLOW FLAME, WHITE SMOKE FOR 40 TO 60 MINS, PKG 2 MARKERS POLYSTYRENE CNTR.		SAFE

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BODTC	Nomenclature	Platform	HERO Class
L580	MARKER, LOCATION, MARINE, MK 58 MOD 1 W/O SUSPENSION BANDS, MARKER PRODUCES YELLOW FLAME, WHITE SMOKE FOR 40 TO 60 MINS, PKG 2 MARKERS POLYSTYRENE CNTR.	ADVANCED AMPHIBIOUS ASSAULT VEHICLE (AAAV)	SAFE
L580	MARKER, LOCATION, MARINE, MK 58 MOD 1 W/O SUSPENSION BANDS, MARKER PRODUCES YELLOW FLAME, WHITE SMOKE FOR 40 TO 60 MINS, PKG 2 MARKERS POLYSTYRENE CNTR.		SAFE
L592	BLAST SIMULATOR ASSY, F/TOW M70 TRAINING SET		UNSAFE
L594	SIMULATOR, PROJECTILE, GROUND BURST, M115A2	MAN	NO REQUIREMENT
L594	SIMULATOR, PROJECTILE, GROUND BURST, M115A2 2T COG	MAN	NO REQUIREMENT
L594	SIMULATOR, PROJECTILE, GROUND BURST	MAN	NO REQUIREMENT
L598	SIMULATOR, BOOBY TRAP, FLASH, M117 WITH SAFETY CLIP. PACKAGED 150 FLASH ASSEMBLIES PER FIBERBOARD BOX. ONE BOX PER WIREBOUND BOX. 30 BOXES PER PALLET.		NO REQUIREMENT
L598	SIMULATOR, BOOBY TRAP, M117, FLASH		NO REQUIREMENT
L599	SIMULATOR, BOOBY TRAP, M118, ILLUM		NO REQUIREMENT
LA44	CTG., SIGNAL AND ILLUMINATING, WHITE STAR GF 1.5, PACKED 20 PER PA19 METAL AMMO BOX, USED WITH OMEGA 36/B2 FIRING DEVICE		SAFE
LA46	CTG., SIMULATOR, HOSTILE FIRE GF 1.5, PACKED 20 PER PA19 AMMO BOX. USED WITH OMEGA 36/B2 FIRING DEVICE		SAFE
LX11	LAUNCHER KIT, SIGNAL, POCKET (USMC)		NO REQUIREMENT
M023	CHARGE, DEMOLITION, BLOCK, M112, COMP C-4, 1-1/4 LB NSN 1375-00-724-7040 P/N 9204248 NSN 1375-01-330-0749 P/N 9204248 NSN 1375-01-389-3854 P/N 9204248-1		NO REQUIREMENT
M024	CHARGE, DEMOLITION M118 PETN 2 LB BLOCK W/O TAGGANT		NO REQUIREMENT
M024	CHARGE, DEMOLITION M118 PETN 2 LB BLOCK WITH TAGGANT		NO REQUIREMENT
M028	DEMOLITION KIT, BANGALORE TORPEDO, M1A2		NO REQUIREMENT
M030	CHARGE, DEMOLITION BLOCK, 1/4 LB, TNT. PKG.192 CHARGES W/48 ADAPTER, PRIMING M1A4/WDN BOX.		NO REQUIREMENT
M032	CHARGE, DEMO, BLOCK, TNT, 1 LB		NO REQUIREMENT
M039	CHARGE, DEMOLITION, CRATERING, AMMONIA NITRATE, 40 LB PACKAGED 1 PER M18A2 METAL CONTAINER		NO REQUIREMENT
M039	CRATERING CHARGE, DEMOLITION, 40-POUND H-6 EXPLOSIVE		NO REQUIREMENT
M039	CHARGE, DEMOLITION, CRATERING, AMMONIA NITRATE, 40 LB		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
M097	CAP, BLASTING, NON-ELECTRIC, INERT NSN 1375-00-784-8043 P/N 8864810		NO REQUIREMENT
M098	CAP, BLASTING, ELECTRIC, INERT (USMC)		NO REQUIREMENT
M130	CAP, BLASTING, ELECTRIC, M6.	MAN	SUSCEPTIBLE
M130	CAP, BLASTING, ELECTRIC, M6 FOR FMS ONLY	MAN	SUSCEPTIBLE
M130	CAP, BLASTING, SPECIAL, ELECTRIC, TYPE 2, J2 PETN.	MAN	SUSCEPTIBLE
M130	CAP, BLASTING, ELECTRIC, M6.	MAN	SUSCEPTIBLE
M130	CAP, BLASTING, SPECIAL, ELECTRIC, TYPE 11.	MAN	UNSAFE
M130	BLASTING CAP, ELECTRIC, SPECIAL TYPE 2 FOR UNDERWATER USE	MAN	UNSAFE/UNRELIABLE
M130	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CAP, BLASTING, ELECTRIC, M6. FOR COG OT AND 2T.	PERSONNEL-BORNE	SUSCEPTIBLE
M130	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CAP, BLASTING, SPECIAL, ELECTRIC, TYPE 2, J2 PETN. COG OT ONLY.	PERSONNEL-BORNE	SUSCEPTIBLE
M130	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CAP, BLASTING, ELECTRIC, M6. COG OT AND 2T.	PERSONNEL-BORNE	SUSCEPTIBLE
M130	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CAP, BLASTING, ELECTRIC, M6. FOR COG OT AND 2T.	PERSONNEL-BORNE	SUSCEPTIBLE
M130	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CAP, BLASTING, ELECTRIC, M6. COG OT AND 2T.	PERSONNEL-BORNE	SUSCEPTIBLE
M131	CAP, BLASTING, SPECIAL, NON-ELECT NSN 2T 1375-00-028-5226 P/N 393652 (OBSOLESCENT) NSN 0T 1375-00-028-5226 P/N 393652 NSN 1375-00-028-5227 P/N 393652 NSN 1375-00-028-5228 P/N 393652 (OBSOLESCENT) NSN 1375-00-283-9440 P/N 8830948 NSN 1375-00-370-3519 P/N 8830948 NSN 1375-00-756-1864 P/N 8830948 NSN 1375-01-057-6439 P/N 8830948 NSN 1375-01-193-2976 P/N MIL-C-45469 NSN 1375-01-315-1335 P/N 12929271		NO REQUIREMENT
M174	CTG., CAL .50, BLANK, ELECT INITIATED, W/MK 1-2 SQUIB.	MAN	SUSCEPTIBLE
M174	MINI-DEMOLITION REMOTE FIRING DEVICE WITH CARTRIDGE, CAL .50, BLANK, ELECT INITIATED, W/MK 1-2 SQUIB. COG OT AND 2T.	PERSONNEL-BORNE	SUSCEPTIBLE
M327	COUPLING BASE, FIRING DEVICE, W/PRIMER M27		NO REQUIREMENT
M327	COUPLING BASE, FIRING DEVICE, W/PRIMER M39A1		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
M420	CHARGE, DEMOLITION, SHAPED, M2 SERIES, 15LB (USMC)		NO REQUIREMENT
M421	CHARGE, DEMOLITION, SHAPED, M3, 40 LB		NO REQUIREMENT
M456	CORD, DETONATING, REINFORCED (USMC)		NO REQUIREMENT
M456	CORD, DETONATING, REINFORCED		NO REQUIREMENT
M456	CORD, DETONATING, REINFORCED (USMC)		NO REQUIREMENT
M474	CONTAINER, DEMOLITION CHARGE MK 1 MOD 0, EMPTY		NO REQUIREMENT
M475	CONTAINER, DEMOLITION CHARGE MK 2 MODS, EMPTY		NO REQUIREMENT
M476	CONTAINER, DEMOLITION CHARGE MK 3 MODS, EMPTY		NO REQUIREMENT
M477	CONTAINER, DEMOLITION CHARGE MK 7 MOD 1, EMPTY		NO REQUIREMENT
M478	CONTAINER, DEMOLITION CHARGE MK 7 MOD 2, EMPTY		NO REQUIREMENT
M479	CONTAINER, DEMOLITION CHARGE MK 7 MOD 3, EMPTY		NO REQUIREMENT
M480	CONTAINER, DEMOLITION CHARGE MK 7 MOD 4, EMPTY		NO REQUIREMENT
M481	CONTAINER, DEMOLITION CHARGE MK 7 MOD 5, EMPTY		NO REQUIREMENT
M482	CONTAINER, DEMOLITION CHARGE MK 7 MOD 6, EMPTY		NO REQUIREMENT
M483	CONTAINER, DEMOLITION CHARGE MK 7 MOD 7, EMPTY NSN 1375-01-077-4379 P/N 795510-7		NO REQUIREMENT
M484	CONTAINER, DEMOLITION CHARGE MK 7 MOD 8, EMPTY		NO REQUIREMENT
M487	CONTAINER, DEMOLITION CHARGE, MK 8 MOD 1, EMPTY		NO REQUIREMENT
M500	CUTTER, CARTRIDGE ACTUATED, M21, 2 SEC DELAY USMC		NO REQUIREMENT
M500	CTG., CUTTER ACTUATED, M21, 2 SEC DELAY USMC		NO REQUIREMENT
M591	DYNAMITE, MILITARY, M1 1375-00-724-9613		NO REQUIREMENT
M670	FUZE, BLASTING, TIME, EXPLOSIVE LOADED		NO REQUIREMENT
M757	CHARGE ASSY, DEMOLITION, M183 (USMC)		NO REQUIREMENT
M766	IGNITER, TIME BLASTING FZ, M2, M60/T2, PULL WIRE TYPE, WEATHERPROOF (USMC)		NO REQUIREMENT
M766	IGNITER, TIME BLASTING FUZE, M60		NO REQUIREMENT
M913	CHARGE DEMOLITION, LINEAR, HE, M58A1, FUZE M1134 (USMC)		SUSCEPTIBLE
M913	CHARGE, DEMOLITION, LINEAR, HE M58A4, WITH AWW AND FUZE M1134A4	ASSAULT BREACHER VEHICLE	SAFE
M913	CHARGE, DEMOLITION, LINEAR, HE, M58A4 WITH AWW, WITH TAGGANT AND FUZE M1134A4 (USMC)	LVTP7A1	SUSCEPTIBLE

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DODIC	Nomenclature	Platform	HERO Class
M914	CHARGE, DEMOLITION, LINEAR, PRACTICE, INERT, M68A2;W/FUZE PRACTICE, ELECTRICM1147;HARNESS CONNECTOR DWG 2846860 AND BOX TYPE 2-WAY ENTRY MTL PALLET W/COVER ASSEMBLY		NO REQUIREMENT
M914	CHARGE, DEMOLITION, LINEAR, PRACTICE, INERT, M68A2;W/FUZE PRACTICE, ELECTRICM1147;HARNESS CONNECTOR DWG 2846860 AND BOX TYPE 2-WAY ENTRY MTL PALLET W/COVER ASSEMBLY		NO REQUIREMENT
M980	CHARGE, DEMOLITION, EXPLOSIVE SHEET, 38 FT ROLL	MAN	NO REQUIREMENT
M981	CHARGE, DEMOLITION, EXPLOSIVE SHEET, 25 FT ROLL W/TAGGANT	MAN	NO REQUIREMENT
M981	CHARGE, DEMOLITION, EXPLOSIVE SHEET, 25 FT ROLL	MAN	NO REQUIREMENT
M982	CHARGE, DEMO, EXPLOSIVE SHEET, 19 FT ROLL		NO REQUIREMENT
ML03	FIRING DEVICE, DEMOLITION, MULTIPURPOSE, M142		NO REQUIREMENT
ML04	CUTTER, POWDER ACTUATED MK 23 MOD 0, MOD 1 EXROD		NO REQUIREMENT
ML05	CUTTER, POWDER ACTUATED MK 24 MOD 0, MOD 1 EXROD		NO REQUIREMENT
ML25	CHARGE, DEMOLITION, LINEAR, HE, COMP C4, M59, W/FUZE ELECT M1134A (VARIANTS)		SUSCEPTIBLE
ML25	CHARGE, DEMOLITION, LINEAR, HE, M59, WITH FUZE M1134A1E1		SUSCEPTIBLE
ML25	CHARGE, DEMOLITION, LINEAR, HE, M59A1, WITH AWW AND FUZE M1134A4	ASSAULT BREACHER VEHICLE	SAFE
ML25	CHARGE, DEMOLITION, LINEAR, HE, COMP C4, M59, W/FUZE ELECT M1134A (VARIANTS)	LVTP7A1	SUSCEPTIBLE
ML26	CHARGE, DEMOLITION PRACTICE, LINEAR M69, W/FUZE ELECTRIC M1147 (FOR USE IN MINE CLEARANCE KIT MOUNTED IN LVTP7 OR LVTP7A1 VEHICLES) PKG 1 PER ALUMINUM VERTICAL PLT W/COVER		NO REQUIREMENT
ML82	FUZE, M1134A3, ELECTRIC, F/ LINEAR DEMOLITION CHARGE M58 AND M59 SERIES		SUSCEPTIBLE
ML82	FUZE, ELECTRIC M1134A4 FOR CHARGE, DEMOLITION LINEAR M58A4 AND M59 SERIES	ASSAULT BREACHER VEHICLE	SAFE
ML82	FUZE, ELECTRIC, M1134A3, F/ LINEAR DEMOLITION CHARGE, M58 AND M59 SERIES ON MK 2 MOD 0 TRAILER	MK 2 MOD 0 TRAILER	SUSCEPTIBLE
ML83	CAP, BLASTING, ELECTRIC MK 11 MOD 0	MAN	SAFE
MM30	CHARGE, DEMOLITION MK 140 MOD 0, FLEXIBLE, 20 GRAM NSN 1375-01-281-8696 P/N 6545554		NO REQUIREMENT
MM30	CHARGE, DEMOLITION MK 140 MOD 0, FLEXIBLE, 20 GRAM		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
MM31	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED 30 GRAINS RDX PER FOOT, EACH CHG 6-FT LONG PKGD: AS REQUIRED		NO REQUIREMENT
MM32	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 40 GRAINS RDX PER FT, EACH CHG 6-FT LONG PKGD: AS REQUIRED		NO REQUIREMENT
MM33	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 60 GRAINS RDX PER FT, EACH CHG 6-FT LONG PKGD: AS REQUIRED		NO REQUIREMENT
MM35	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 125 GRAINS RDX PER FT. EACH CHG 6-FT LONG PKGD: AS REQUIRED		NO REQUIREMENT
MM41	CHARGE DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED 30 GRAINS OF CH-6 PER FT. EACH CHG 6- FT LONG, PKG 6 SIX-FOOT LENGTHS WITH CUSHION TRAYS IN WOODEN BOX		NO REQUIREMENT
MM42	CHARGE DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 40 GRAINS CH-6 PER FT. EACH CHG 6-FT LONG; PKG 6 SIX-FT LENGTHS W/CUSHION TRAYS IN WOODEN BOX		NO REQUIREMENT
MM44	CHARGE DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 75 GRAINS CH-6 PER FT EACH CHG 6-FT LONG; PKG 6 SIX-FOOT LENGTHS WITH CUSHIONS IN WOODEN BOX		NO REQUIREMENT
MM45	CHARGE DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 125 GRAINS CH-6 PER FOOT EACH CHG 6-FOOT LONG; PKG 6 SIX-FOOT LENGTHS W/CUSHION TRAYS IN WOODEN BOX		NO REQUIREMENT
MM46	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 225 GRAINS CH-6 PER FT. EACH CHARGE 6-FT LONG; PACKAGED THREE (3) SIX FOOT LENGTHS W/CUSHION TRAYS IN WOODEN BOX		NO REQUIREMENT
MM47	CHARGE, DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 400 GRAINS CH-6 PER FOOT EACH CHG 6-FT LONG; PACKAGED THREE (3) SIX FOOT LENGTHS W/CUSHION TRAYS IN WOODEN BOX		NO REQUIREMENT
MM48	CHARGE DEMOLITION SHAPED, FLEXIBLE, LINEAR, LEAD SHEATHED, 600 GRAINS CH-6 PER FOOT EACH CHG 6-FT LONG; PKG. (3) 6-SIX FOOT LENGTHS W/CUSHION TRAYS PER WOODEN BOX.		NO REQUIREMENT

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DODIC	Nomenclature	Platform	HERO Class
MM51	CHARGE, DEMOLITION, LOW HAZARD FLEXIBLE LINEAR SHAPED MK 143 MOD 0, 600 GRAINS/FOOT		NO REQUIREMENT
MM51	CHARGE, DEMO, SHAPED, FLEXIBLE, LINEAR, LOW HAZARD MK 143 MOD 0, 600 GRAINS/FOOT		NO REQUIREMENT
MM52	CHARGE, DEMO, SHAPED, FLEXIBLE, LINEAR, LOW HAZARD MK 144 MOD 0, 1200 GRAINS/FOOT		NO REQUIREMENT
MM52	CHARGE, DEMOLITION, LOW HAZARD FLEXIBLE LINEAR SHAPED MK 144 MOD 0, 1200 GRAINS/FOOT		NO REQUIREMENT
MM53	CHARGE, DEMOLITION, MK 145 MOD 0 LOW HAZARD FLEXIBLE LINEAR SHAPED, 2400 GRAINS/FOOT		NO REQUIREMENT
MM53	CHARGE, DEMO, SHAPED, FLEXIBLE, LINEAR, LOW HAZARD MK 145 MOD 0 2400 GRAINS/FOOT W/ TAGGANT		NO REQUIREMENT
MM54	CHARGE, DEMO, SHAPED, FLEXIBLE, LINEAR, LOW HAZARD MK 149 MOD 0 5400 GRAINS/FOOT W/TAGGANT		NO REQUIREMENT
MM54	CHARGE, DEMOLITION, MK 149 MOD 0 LOW HAZARD FLEXIBLE LINEAR SHAPED, 5400 GRAINS/FOOT		NO REQUIREMENT
MN01	CANINE EXPLOSIVE SCENT KIT		NO REQUIREMENT
MN02	CAP, BLASTING, NON-ELECTRIC, M12 WITH 500 FT SHOCK TUBE, MODERNIZED DEMOLITION INITIATOR		NO REQUIREMENT
MN08	IGNITER, TIME BLASTING FUSE W/SHOCK TUBE CAPABILITY M81.	MAN	NO REQUIREMENT
MN08	IGNITER, TIME BLASTING FUSE W/SHOCK TUBE CAPABILITY, M81.	MAN	NO REQUIREMENT
MN14	FIRING DEVICE, HANDHELD (DUAL) MK 54 MOD 0 (USMC)		NO REQUIREMENT
MN52	DETONATOR, PERCUSSION, NON-ELECTRIC WITH IN-LINE INITIATOR, DUAL MK 154 MOD 0. 100FT, 8 SPOOLS PER CNU-405/EMETAL.MILITARY SPECIFICATION/DRAWING 30003-986AS106.		NO REQUIREMENT
MN52	DETONATOR, PERCUSSION, NON-ELECTRIC WITH IN-LINE INITIATOR, DUAL MK 154 MOD 0. 100 FT, 8 SPOOLS PER CNU-405/E METAL. MILITARY SPECIFICATION/DRAWING 30003-986AS106		NO REQUIREMENT
MN79	ANTI-PERSONNEL OBSTACLE BREACHING SYSTEM, MK 7 MOD 2, CONSISTING OF 1 REAR BACKPACK ASSEMBLY, 1 FRONT BACKPACK ASSEMBLY, 1 MK 126 MOD 0 ROCKET MOTOR, 1 NON-ELECTRIC SQUIB, 1 LAUNCH TUBE, 1 TOOL KIT, 1 FRONT FUZE, 1 REAR FUZE, 1 FOAM TRANSPORT CONTAINER, AND 1 SOFT PACK	MAN	NO REQUIREMENT

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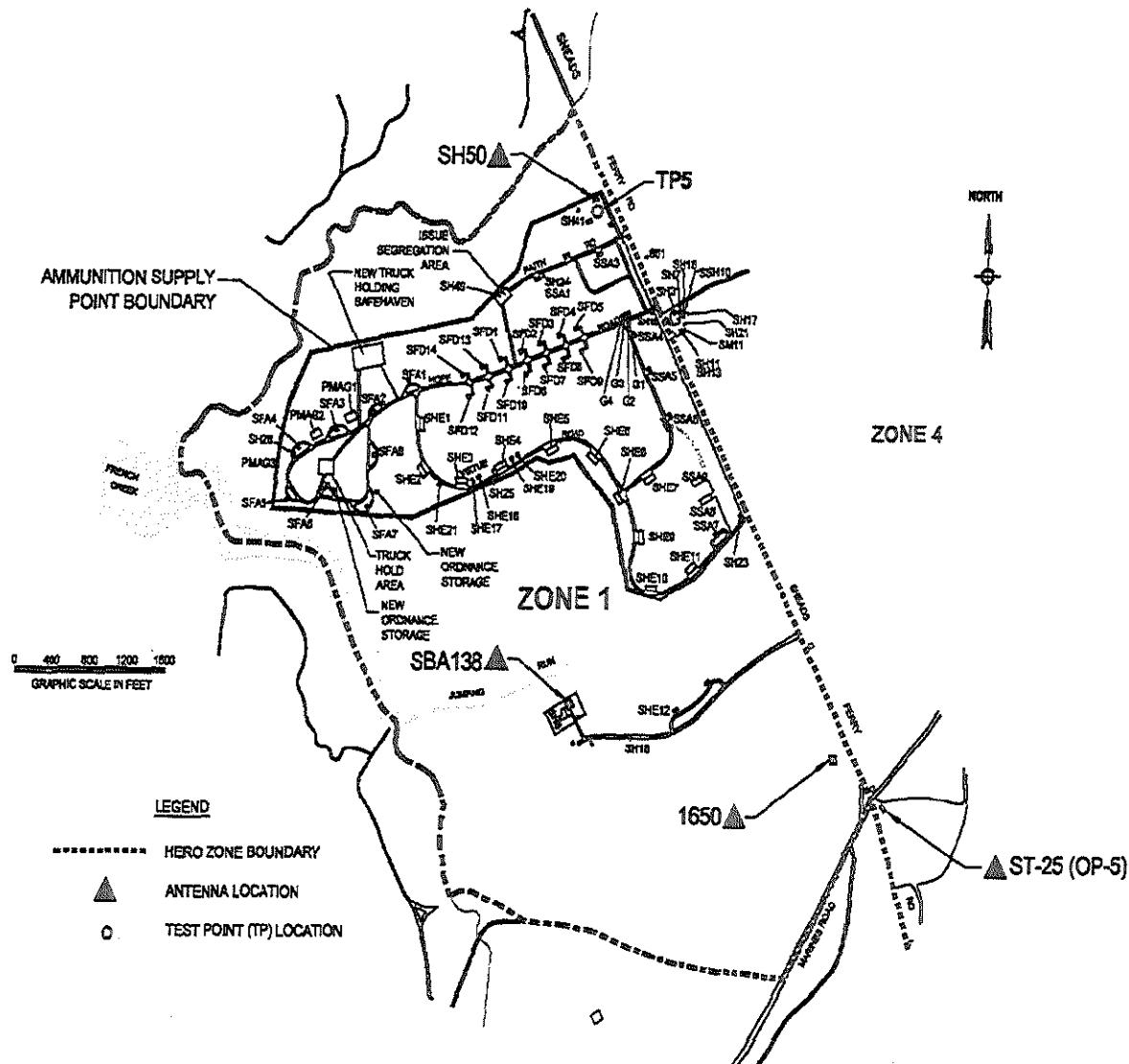
DODTC	Nomenclature	Platform	HERO Class
MN79	ANTI-PERSONNEL OBSTACLE BREACHING SYSTEM, MK 7 MOD 1, CONSISTING OF 1 REAR BACKPACK ASSEMBLY, 1 FRONT BACKPACK ASSEMBLY, 1 MK 126 MOD 0 ROCKET MOTOR, 1 MK 19 MOD 0 ELECTRIC SQUIB, 1 LAUNCH TUBE, 1 TOOL KIT, 1 FRONT FUZE, 1 REAR FUZE, 1 FOAM TRANSPORT CONTAINER, AND 1 SOFT PACK	MAN	SUSCEPTIBLE
MN84	MINE CLEARANCE SYSTEM, ANTI-PERSONNEL OBSTACLE BREACHING SYSTEM (APOBS) INERT. PACKAGED ONE (1) SYSTEM PER OUTER PACK. POP MKGS: 4B/Y104/S/** (YR PACKED)		NO REQUIREMENT
MN88	CAP, BLASTING, NON-ELEC XM21 W/500 FT MINITUBE		NO REQUIREMENT
MN90	CAP, BLASTING, DUAL-INITIATOR, NON-ELECTRIC, M23 WITH 1000 FEET MINITUBE. PACKAGED 4 PER FIBERBOARD BOX, 5 BOXES PER WOOD BOX		NO REQUIREMENT
MU40	CORD, DETONATING PETN, WTRPRF W/POLYETHYLENE OVER- EXTRUSION, COLOR PALE GREEN, 400 GRAIN PETN PER FT PACKAGED: 500 FT PER PLYWOOD SPOOL 1 SPOOL (500 FT) PER FBRBD BOX		NO REQUIREMENT
MU41	CORD, DETONATING PETN, WTRPRF W/POLYETHYLENE OVER- EXTRUSION, COLOR ORANGE, 200 GRAIN PETN /FT PACKAGED: 1200-FT/PLYWOOD SPOOL 1-SPOOL (1200 FT) PER FIBERBOARD BOX		NO REQUIREMENT
MU42	CORD, DETONATING PETN, WTRPRF W/POLYETHYLENE OVER- EXTRUSION, COLOR CLEAR, 100 GRAIN PETN PER FT. PACKAGED: 800-FT PER PLYWOOD SPOOL 2-SPOOLS (1600 FT) PER FIBERBOARD BX		NO REQUIREMENT
MU43	CORD, DETONATING PETN, WTRPRF W/POLYETHYLENE OVER- EXTRUSION, COLOR CLEAR, 600 GRAIN PETN PER FT PACKAGED: 250 FT/PLYWOOD SPOOL 1-SPOOL (250 FT) PER FIBERBOARD BOX		NO REQUIREMENT
N289	FUZE, ELECTRONIC, M762 WITHOUT BOOSTER		SAFE
N290	FUZE, ELECTRONIC		SAFE
N291	FUZE, PROXIMITY M732A2 ET W/BOOSTER	105 MM HOWITZER	SAFE
N340	FUZE, POINT DET, XM739 .05 SEC SELECTIVE DELAY		NO REQUIREMENT
N523	PRIMER, PERCUSSION M82. PKG.1/WTRPRF BAG, 25 BAG/CTN, 1 CTN/WTRPRF BAG, 20 BAG, 500 PRIMER/ WDN BX.		NO REQUIREMENT
N523	PRIMER, PERCUSSION M82. PKG.1/BARRIAR BAG, 25 BAG/CTN, 1 CTN/WTRPRF BAG, 20 BAG, 100 PRIMER/M2A1 METAL CAN, 2 M2A1 CANS PER WOODEN BOX.		NO REQUIREMENT
N523	PRIMER, PERCUSSION, M82 SERIES (USMC)		NO REQUIREMENT

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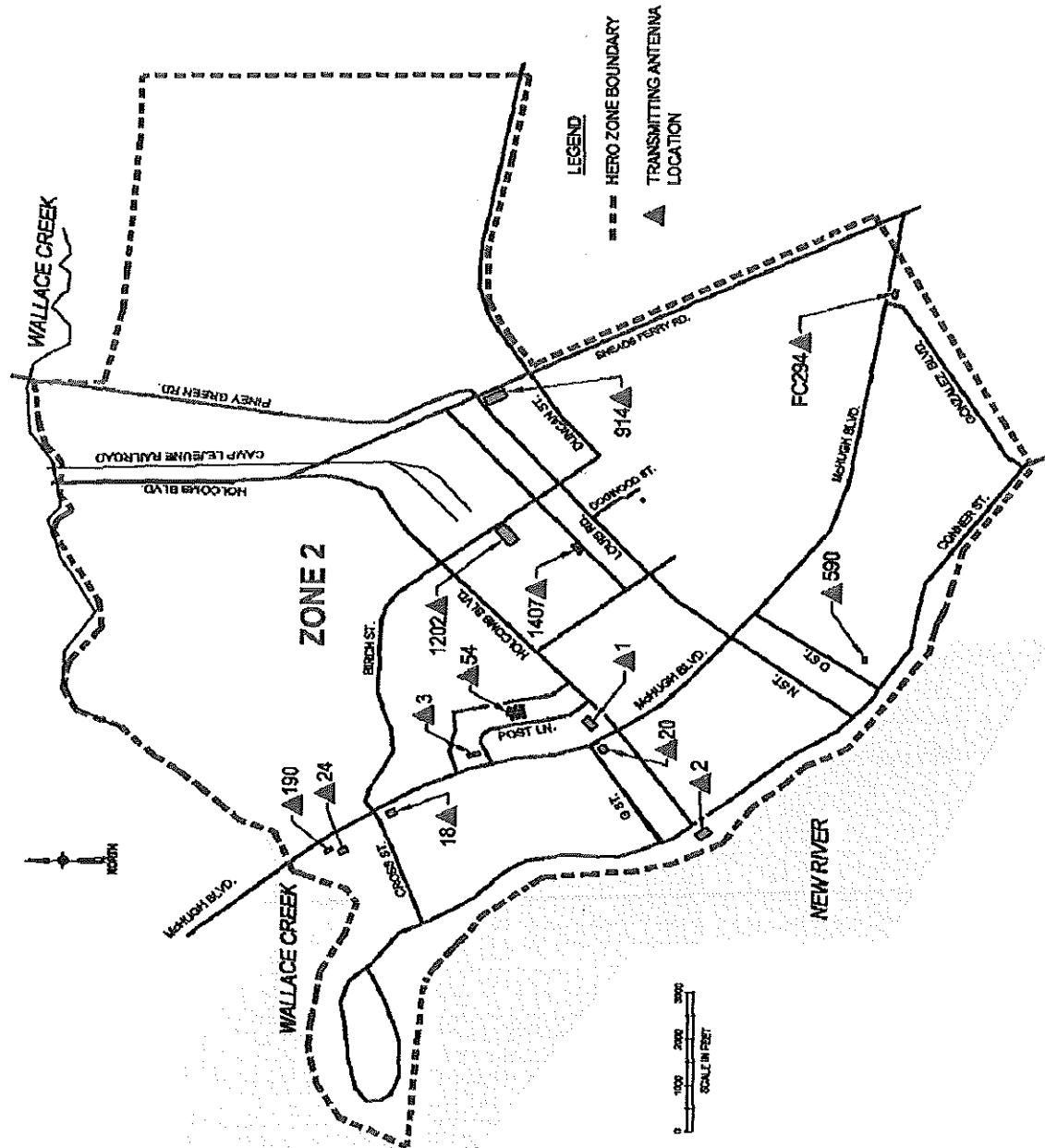
DODTC	Nomenclature	Platform	HERO Class
NA09	FUZE, MULTI-FUNCTION, ARTILLERY M782		SAFE
PL87	GUIDED MISSILE, SUBSYSTEM, STINGER, PARTIAL, FIM-92D, CONTAINS RMP MISSILE RD, 3 BATTERY COOLANT UNITS		SAFE
PL87	GUIDED MISSILE, SUBSYSTEM, STINGER, PARTIAL, FIM-92D, CONTAINS RMP MISSILE RD, 3 BATTERY COOLANT UNITS	LAV-AD	SAFE
PL94	GUIDED MISSILE, SUBSYSTEM (STINGER-RMP) MSL RD C/O STINGER MSL RD AND 2 BATTERY-COOLANT UNITS (USMC)		SAFE
PL94	GUIDED MISSILE, SUBSYSTEM (STINGER-RMP) MSL RD C/O STINGER MSL RD AND 2 BATTERY-COOLANT UNITS IN A WDN CNTR (USMC)	LAV-AD	SAFE
PN01	BATTERY-COOLANT, UNIT, F/STINGER MISSILE		SAFE
PN16	GRIPSTOCK CONTROL GROUP, GUIDED MISSILE LAUNCHER, F/STINGER MISSILE-RMP FIM- 92C, NSN 1440-01-233-1494 P/N 13251828		NO REQUIREMENT
PN16	GRIPSTOCK CONTROL GROUP, GUIDED MISSILE LAUNCHER, F/STINGER MISSILE-RMP FIM-92C		NO REQUIREMENT
VX99	SIMULATOR, STINGER LAUNCH STLS MISSILE	MAN	SUSCEPTIBLE
WH03	GM, TOW 2A, BGM-71E-2B W/IMOIC, HEAT	MAN	SUSCEPTIBLE
WH03	GM, TOW 2A, BGM-71E-2B W/IMOIC, HEAT IN HERO/ESD BAG	MAN	SUSCEPTIBLE
WH05	GM, PRACTICE, BTM-71E-1B W/IMOIC		SUSCEPTIBLE
WH05	GM, PRACTICE, BTM-71E-1B W/IMOIC	MAN	SUSCEPTIBLE
WH06	GM, PRACTICE, BTM-71D-3B W/IMOIC	MAN	SUSCEPTIBLE

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MCB Camp Lejeune Drawings and Photographs

MARINE CORPS BASE CAMP LEJEUNE, NC, (AMMUNITION SUPPLY POINT AREA)  
HERO ZONE 1: ORDNANCE, TRANSMITTING ANTENNA AND TEST POINT (TP) LOCATIONS

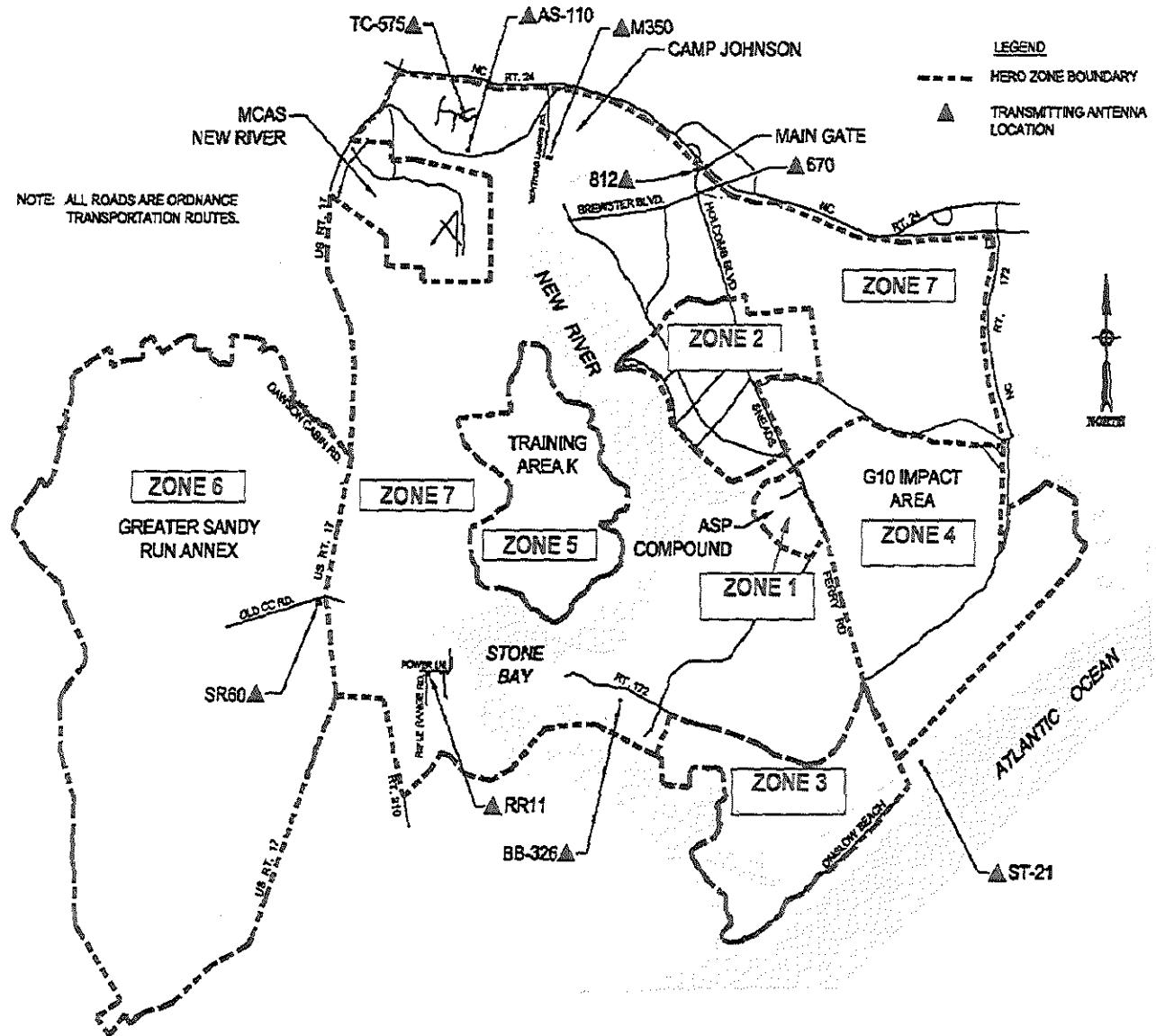
MCB Camp Lejeune Drawings and Photographs



MARINE CORPS BASE CAMP LEJEUNE, NC, HERO ZONE 2:  
TRANSMITTING ANTENNA LOCATIONS

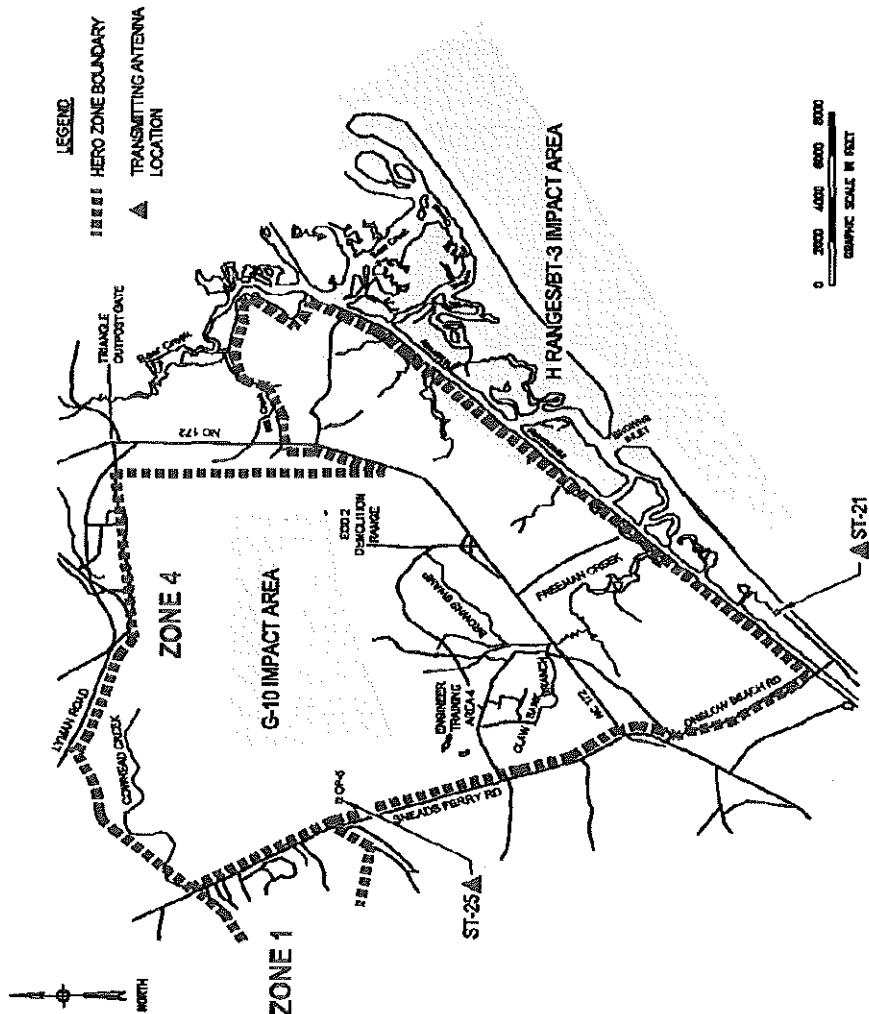
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MCB Camp Lejeune Drawings and Photographs



MARINE CORPS BASE CAMP LEJEUNE, NC, MAIN BASE: HERO ZONES AND  
TRANSMITTING ANTENNA LOCATIONS

28 FEB 2013

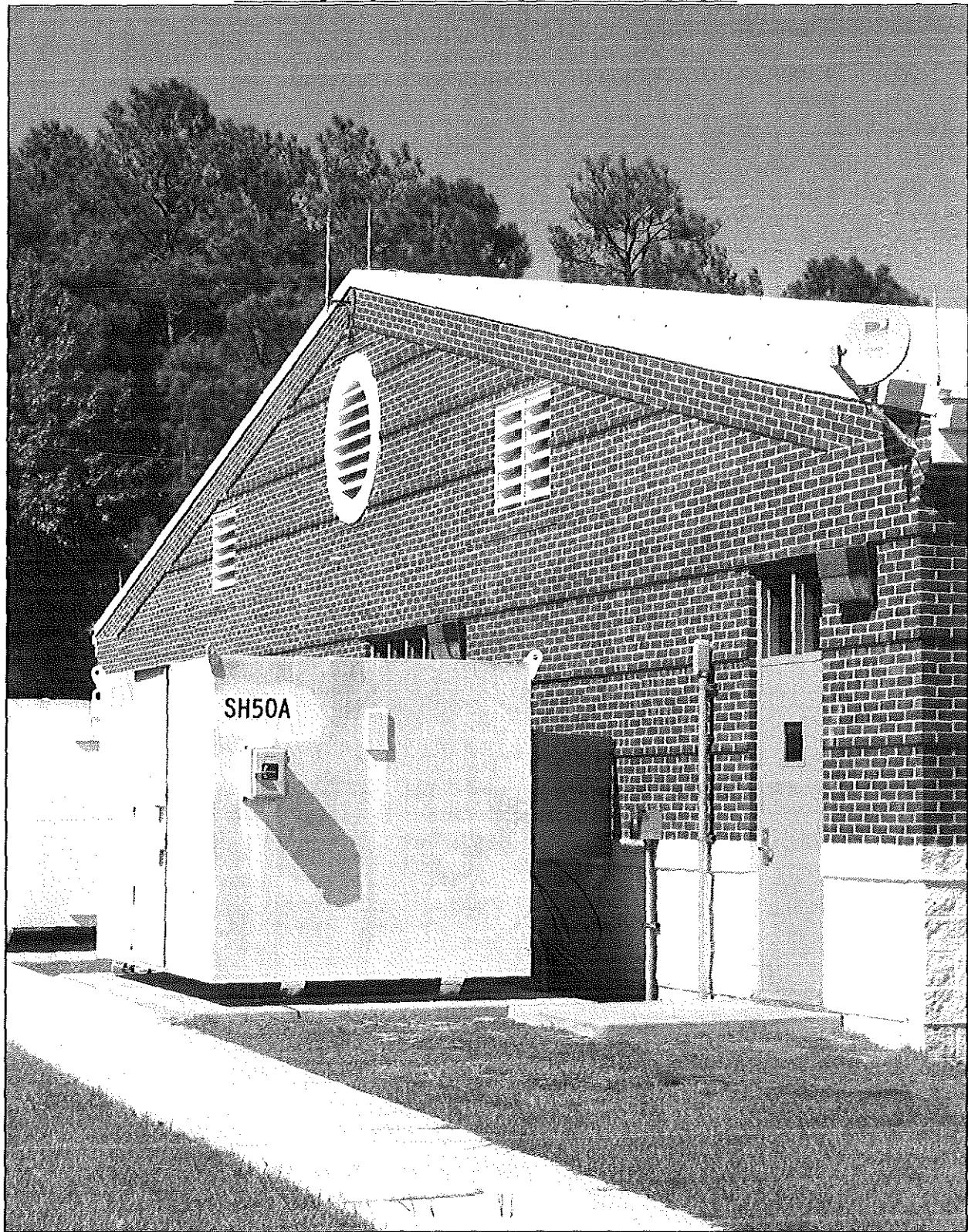
MCB Camp Lejeune Drawings and Photographs

MARINE CORPS BASE CAMP LEJEUNE, NC (G10 IMPACT AREA),  
HERO ZONE 4: TRANSMITTING ANTENNA AND ORDNANCE LOCATIONS

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MCB Camp Lejeune Drawings and Photographs

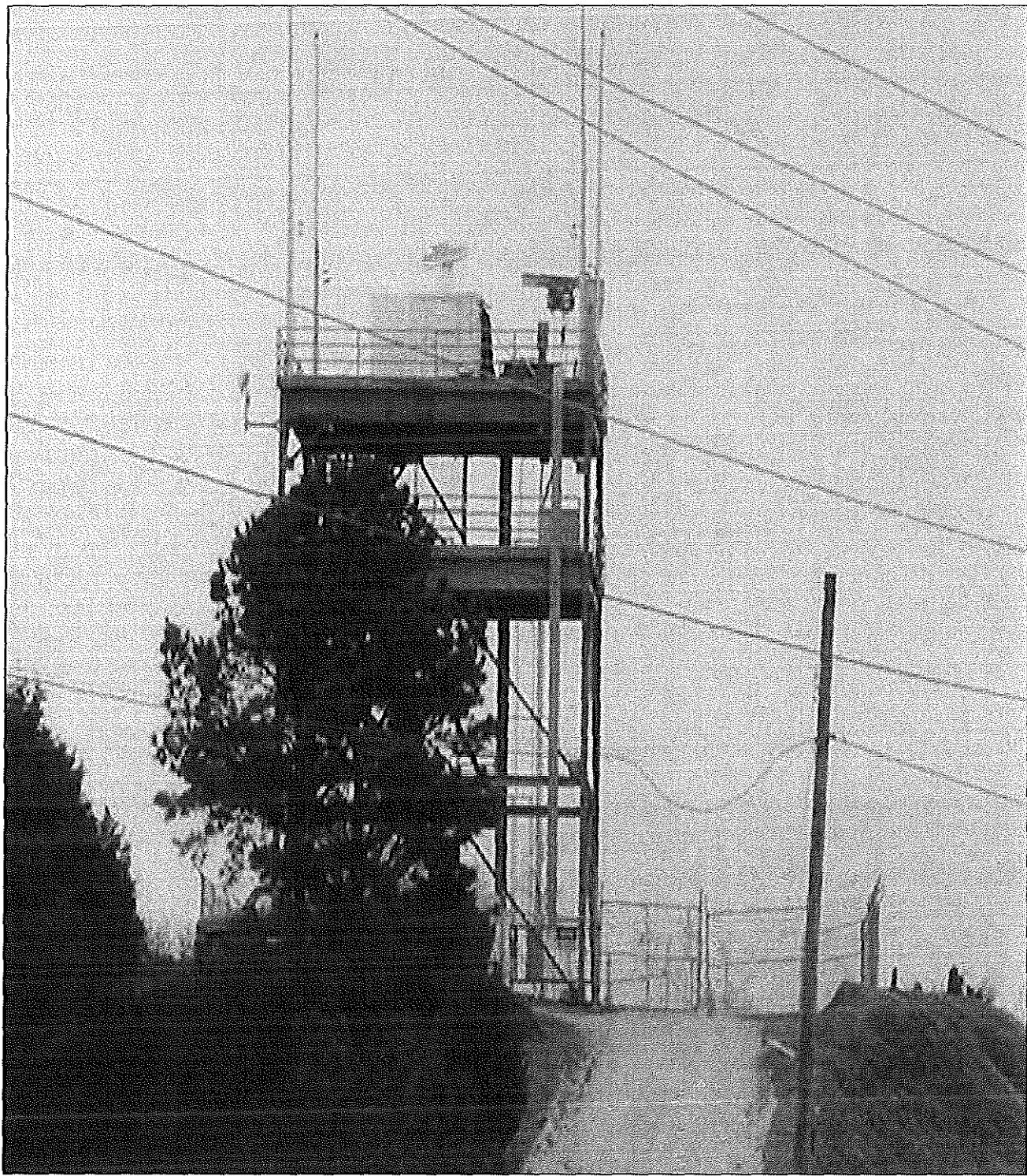


WHIP ANTENNA CONNECTED TO A MOTOROLA SPECTRA TRANSMITTER  
INSTALLED AT BUILDING SH-50

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MCB Camp Lejeune Drawings and Photographs



AN/TPS-73 RADAR ON TOWER ST-25 AT OP-5

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HERO Summary

<u>NALC</u>	<u>Ordnance</u>	<u>S4 Phases</u>	<u>Location</u>	<u>HERO CONDITION</u>
<u>General Applications</u>				
All	HERO SAFE ORDNANCE	All S4 Phases	All locations	0
All	HERO UNSAFE/UNRELIABLE ORDNANCE	All S4 Phases	Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7	1 1 2 1 1 3 1
All	HERO SUSCEPTIBLE ORDNANCE	All S4 Phases	Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7	4 4 5 4 4 6 4

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HERO EMCON ProceduresHERO CONDITION 0

HERO EMCON is not required; all transmitters [as listed in enclosure (6)] may be operated. Observe the general HERO requirements outlined in Chapter 7 of reference (c).

HERO CONDITION 1

This condition applies to HERO UNSAFE/UNRELIABLE ORDNANCE in HERO Zones 1, 2, 4, 5, and 7.

- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF communications transmitters operating at less than 20 watts or transmitters operating into dummy loads.
- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all transmitters on landing craft and small boats.
- For in-flight aircraft carrying ordnance items directly exposed to MCB CamLej EME, observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all stationary transmitters.
- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.
- For an ordnance accident, emergency response units such as the Fire Department, ASP, and Security responding to the scene with radio equipment must maintain a minimum separation distance of 150 feet from the accident site if using three VHF (132-174 MHz) mobile radios; similarly, a minimum separation distance of 50 feet must be maintained when using three VHF portable radios. Silence all other radios at the scene; for single radio use, apply the separation distances cited in enclosure (6) of this Order for that specific mobile or portable unit.

HERO CONDITION 2

This condition applies to HERO UNSAFE/UNRELIABLE ORDNANCE in HERO Zone 3.

- Silence the AN/MSQ-T8A radar system located at Building BA-163 when ordnance is exposed within 1900 feet on the Mockup Road ordnance transportation route.
- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF communications transmitters operating at less than 20 watts or transmitters operating into dummy loads.
- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all transmitters on landing craft and small boats.
- For in-flight aircraft carrying ordnance items directly exposed to MCB Camp Lejeune's EME, observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe

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separation distances listed in enclosure (6) of this Order for all stationary transmitters.

- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.
- For an ordnance accident, emergency response units such as the Fire Department, ASP, and Security responding to the scene with radio equipment must maintain a minimum separation distance of 150 feet from the accident site if using three VHF (132-174 MHz) mobile radios; similarly, a minimum separation distance of 50 feet must be maintained when using three VHF portable radios. Silence all other radios at the scene; for single radio use, apply the separation distances cited in enclosure (6) of this Order for that specific mobile or portable unit.

#### HERO CONDITION 3

This condition applies to HERO UNSAFE/UNRELIABLE ORDNANCE in HERO Zone 6.

- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF.

communications transmitters operating at less than 20 watts or transmitters operating into dummy loads.

- For in-flight aircraft carrying ordnance items directly exposed to MCB Camp Lejeune's EME, observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all stationary transmitters.
- Observe the HERO UNSAFE/UNRELIABLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.
- For an ordnance accident, emergency response units such as the Fire Department, ASP, and Security responding to the scene with radio equipment must maintain a minimum separation distance of 150 feet from the accident site if using three VHF (132-174 MHz) mobile radios; similarly, a minimum separation distance of 50 feet must be maintained when using three VHF portable radios. Silence all other radios at the scene; for single radio use, apply the separation distances cited in enclosure (6) of this Order for that specific mobile or portable unit.

#### HERO CONDITION 4

This condition applies to HERO SUSCEPTIBLE ORDNANCE in HERO Zones 1, 2, 4, 5, and 7.

- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF communications transmitters operating at less than 40 watts or transmitters operating into dummy loads.
- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all transmitters on landing craft and small boats.

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- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.

HERO CONDITION 5

This condition applies to HERO SUSCEPTIBLE ORDNANCE in HERO Zone 3.

- Silence AN/MSQ-T8A radar system located at Building BA-163 when ordnance is exposed within 600 feet on the Mockup Road ordnance transportation route.
- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF communications transmitters operating at less than 40 watts or transmitters operating into dummy loads.
- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all transmitters on landing craft and small boats.
- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.

HERO CONDITION 6

This condition applies to HERO SUSCEPTIBLE ORDNANCE in HERO Zone 6.

- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances for all aircraft transmitters except VHF/UHF communications transmitters operating at less than 40 watts or transmitters operating into dummy loads.
- Observe the HERO SUSCEPTIBLE ORDNANCE safe separation distances listed in enclosure (6) of this Order for all mobile and portable transmitters.

## ANTENNA AND TRANSMITTER SYSTEMS

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Max.	Transmitter Avg. Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
(RIFLE RANGE AT STONE BAY)	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	HERO	UNSAFE/ HERO
(RIFLE RANGE AT STONE BAY)	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	UNRELIAB LE	SUSCEPTI BLE
(TT HOUSING)	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	ORDNANCE	ORDNANCE
(TT HOUSING)	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	(feet/meters)	(feet/meters)

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter Gain (dBi)	Transmitter Frequency (MHz)	Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
(VARIOUS)	JAYBEAM WIRELESS PCSA065-19-X	PANEL	19.5	1850-1990	18.0	NORTEL MFRM-3	62/19	16/5	
2									
1	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-470	40.0	MOTOROLA ASTRO DIGITAL XTL 5000 CONSOLETTE (UHF-R1)	88/27	22/7	
2	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	45.0	MOTOROLA SPECTRA (UHF)	94/29	23/7	
3	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-494	110.0	MOTOROLA QUANTAR STATION/REPEATER (380-520 MHZ) (X640)	146/45	37/11	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er Power (watts)	Transmitter Type	Transm itter Max.	HERO UNSAFE/ UNRELIAB	BLE SUSCEPTI
							Avg.	ORDNANCE	ORDNANCE
3	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-470	25.0	MOTOROLA QUANTAR STATION/REPEATER (380-520 MHZ) (X240)	70/21	17/5	
3	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	494-512	100.0	MOTOROLA QUANTAR STATION/REPEATER (380-520 MHZ) (X640)	115/35	29/9	
3	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	45.0	MOTOROLA SPECTRA (UHF)	94/29	23/7	

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
18	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	45.0	MOTOROLA SPECTRA (UHF)	94/29	23/7
20	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5
20	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3
24	JAYBEAM WIRELESS PCSA065-19-X	PANEL	19.5	1850-1990	18.0	NORTEL MFRM-3	62/19	16/5
24	ANTEL BXA-80063/8CF	PANEL	18.1	806-900	40.0	NORTEL CDMA GENII METRO	181/55	45/14
24	ANTEL BCD-8708	OMNIDIRECTIONAL	9.1	870-900	98.0	NORTEL NT800DR	93/28	23/7

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
24	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-482	40.0	MOTOROLA ASTRO DIGITAL PLUS CONSOLETTTE (UHF)	88/27	22/7
5								
54	YAGI	YAGI	10.0	132-174	5.0	DATARADIO DL-3400 SERIES ANALOG TELEMETRY RADIO	154/47	38/12
54	YAGI	YAGI	10.0	450-470	5.0	DATARADIO DL-3400 SERIES ANALOG TELEMETRY RADIO	45/14	11/3
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	225-400	50.0	AN/URC-200 (UHF) (WITH UPA-50)	101/31	25/8

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Power (watts)	Transmitter Type	Transm itter Max. Avg.		HERO UNSAFE / UNRELIAB LE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
							Transmitter	Max.	Avg.	
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	225-400	10.0	AN/URC-200 (UHF) (FM/AM HIGH POWER)	45/14	11/3		
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	225-400	5.0	AN/URC-200 (UHF) (FM MEDIUM/AM LOW)	32/10	10/3		
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	225-400	0.1	AN/URC-200 (UHF) (FM LOW)	10/3	5/1.5		

Enclosure (6)

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Antenn er Frequency (MHz)	Transmitt er Max.	Transm itter Avg.	Power (watts)	Transmitter Type	Separation Distances			
									Transmitter Max.	Transmitter Avg.	Power (watts)	Transmitter Type
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	116-174	50.0	AN/URC-200 (VHF) (WITH UPA-50)	197/60	49/15				HERO UNSAFE/ HERO UNRELIAB SUSCEPTI LE BLE ORDNANCE ORDNANCE (feet/meters) (feet/meters)
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	116-174	10.0	AN/URC-200 (VHF) (FM/AM HIGH POWER)	88/27	22/7				
54	TACO D2118	MULDIPOL MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	116-174	5.0	AN/URC-200 (VHF) (FM MEDIUM/AM LOW)	62/19	16/5				

## Separation Distances

20

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Avg. Power (watts)	Transmitter Type	Transm itter	Transm itter	Transm itter
							Max.	Avg.	(feet/meters)
54	TACO D2118	MULDIPOLE MULTIPLE DIPOLE COLLINEAR ARRAY	1.0	116-174	0.1	AN/URC-200 (VHF) (FM LOW)	10/3	5/1.5	
54	LOWBAND RINGO BR-3	WHIP	4.1	32-42	5.0	AN/URC-200 WITH 30-90 MHZ ENHANCEMENT (HIGH POWER)	129/39	32/10	
54	LOWBAND RINGO BR-3	WHIP	4.1	32-42	1.0	AN/URC-200 WITH 30-90 MHZ ENHANCEMENT (MEDIUM POWER)	58/18	14/4	
54	LOWBAND RINGO BR-3	WHIP	4.1	32-42	0.15	AN/URC-200 WITH 30-90 MHZ ENHANCEMENT (LOW POWER)	22/7	10/3	

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
54	TELENETICS MICROPASS 5000 SERIES	PARABOLIC	42.0	21200- 23600	0.1	TELENETICS MICROPASS 5000E SERIES	HERO UNSAFE/ UNRELIAB	HERO SUSCEPTI BLE	ORDNANCE ORDNANCE
54	UVU-200	DUAL-BAND BASE STATION ANTENNA	2.5	225-400	50.0	AN/URC-200 (UHF) (WITH UPA-50)	10/3	10/3	30/9
54	UVU-200	DUAL-BAND BASE STATION ANTENNA	2.5	225-400	10.0	AN/URC-200 (UHF) (FM/AM HIGH POWER)	120/37	54/16	13/4
54	UVU-200	DUAL-BAND BASE STATION ANTENNA	2.5	225-400	5.0	AN/URC-200 (UHF) (FM MEDIUM/AM LOW)	38/12	10/3	

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
							Max.	Avg.	Power
54	UVU-200	DUAL-BAND BASE STATION ANTENNA	2.5	225-400	0.1	AN/URC-200 (UHF) (FM LOW)	10/3	5/1.5	
190	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	
190	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	28 FEB 2013
590	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	
590	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	
670	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	
670	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	

10

Enclosure (6)

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Separation Distances									
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er Power (watts)	Transm itter	Transmitter	Transm itter	Transmitter
						Max.	Avg.	Type	Type
812	YAGI	YAGI	10.0	806-870	35.0	MOTOROLA ASTRO DIGITAL SPECTRA (806-870 MHZ)	67/20	17/5	
914	YAGI	YAGI	10.0	403-512	45.0	MOTOROLA SPECTRA (UHF)	151/46	38/12	
1202	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	50.0	MOTOROLA SPECTRA DESKTOP BASE/CONTROL STATION (RANGE 2)	99/30	25/8	
1407	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-482	40.0	MOTOROLA ASTRO DIGITAL PLUS CONSOLETTTE (UHF)	88/27	22/7	
1650	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	
1650	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Power (watts)	Transmitter Type	Transm itter Avg. Power (watts)		Separation Distances	
							Transmitter Type	Transmitter Avg. Power (watts)	(feet/meters)	(feet/meters)
AS 110	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5		
12	AS 110	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	
	BA-163	WHIP	WHIP	2.1	403-512	40.0	MOTOROLA CDM1250 (UHF) (HIGH POWER)	57/18	14/4	
	BA-163	WHIP	WHIP	2.1	403-512	25.0	MOTOROLA CDM1250 (UHF) (LOW POWER)	45/14	11/3	
	BA-163	AN/MSQ-T8A	YAGI	CLASSIFIED	CLASSIFIED	CLASSIFIED	AN/MSQ-T8A	5547/169	1393/425	
	BB-8	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	45.0	MOTOROLA SPECTRA (UHF)	94/29	23/7	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Type	Type
BB-28	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	45.0	MOTOROLA SPECTRA (UHF)		94/29	23/7
BB-180	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR		62/19	15/5
BB-180	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR		22/7	10/3
BB-326	WHIP	WHIP	2.1	30-512	5.0	AN/PRC-152(C) (AM, FM, PSK, CPM)		103/31	26/8
BB-326	WHIP	WHIP	2.1	30-512	0.25	AN/PRC-152(C) (AM, FM, PSK, CPM)		23/7	10/3
BB-326	WHIP	WHIP	2.1	2-60	400.0	AN/PRC-150(C) (WITH RF-5834H-PA)		917/280	229/70

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
BB-326	WHIP	WHIP	2.1	2-60	150.0	AN/PRC-150 (C) (WITH RF-5033PA)	561/171	140/43
BB-326	WHIP	WHIP	2.1	2-60	20.0	AN/PRC-150 (C)	205/63	51/16
BB-326	WHIP	WHIP	2.1	2-60	5.0	AN/PRC-150 (C)	103/31	26/8
BB-326	WHIP	WHIP	2.1	2-60	1.0	AN/PRC-150 (C)	46/14	11/3
BB-326	WHIP	WHIP	2.1	2-30	0.1	AN/PRC-343 (HF)	14/4	10/3
BB-326	WHIP	WHIP	2.1	32-88	0.1	AN/PRC-343 (VHF)	14/4	10/3
BB-326	WHIP	WHIP	2.1	225-400	0.1	AN/PRC-343	10/3	5/1.5
BB-326	WHIP	WHIP	2.1	2400-2483	0.1	AN/PRC-343	10/3	5/1.5
BB-326	WHIP	WHIP	2.1	30-90	10.0	AN/PRC-117F (C) (FM LOS)	145/44	36/11
BB-326	WHIP	WHIP	2.1	90-400	20.0	AN/PRC-117F (C) (FM LOS AND SATCOM)	182/55	45/14

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er	Power (watts)	Transmitter Type	Transm itter Max.		Transmitter	Transmitter	Transmitter
								Avg.	(feet/me ters)	LE	BLE	ORDNANCE
BB-326	WHIP	WHIP	2.1	90-400	10.0	AN/PRC-117F(C) (AM LOS)		129/39	32/10			HERO UNSAFE/
BB-326	WHIP	WHIP	2.1	400-512	10.0	AN/PRC-117F(C) (FM LOS)		29/9	10/3			HERO UNRELIAB SUSCEPTI
BB-326	WHIP	WHIP	2.1	400-512	4.0	AN/PRC-117F(C) (AM LOS)		18/6	10/3			ORDNANCE ORDNANCE
CELLULAR TOWER NEAR BLDG 190	ANDREW DB846H80E-SX	DIRECTED DIPOLE ANTENNA	16.1	869-891.48	160.0	MOTOROLA SC4812T-MC (4 CHANNEL)		267/81	67/20			28 FEB 2013
CELLULAR TOWER NEAR BLDG 190	ANDREW DB846H80E-SX	DIRECTED DIPOLE ANTENNA	16.1	869-891.48	40.0	MOTOROLA SC4812T-MC (SINGLE CHANNEL)		133/41	33/10			
DOGWOOD STREET CINGULAR TOWER	DECIBEL DB844G65ZAXY (806-896 MHZ)	PANEL	15.6	880-894	20.0	MOTOROLA 4812T		88/27	22/7			

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Transm itter Max.	Transmitter		Transmitter Type	Transmitter Power (watts)	Transmitter (feet/me ters)	Transmitter (feet/me ters)
							Transmitter	Transmitter				
DOGWOOD STREET	AMPHENOL RWA-80017	VERTICALLY POLARIZED PANEL	19.1	880-894	Transmitter	Transmitter	Transmitter	Transmitter	MOTOROLA 4812T	20.0	132/40	33/10
CINGULAR TOWER												
DOGWOOD STREET	AMPHENOL LPD-4019	LOG PERIODIC, 40 DEGREE	21.1	880-894	Transmitter	Transmitter	Transmitter	Transmitter	MOTOROLA 4812T	20.0	166/51	41/13
CINGULAR TOWER												
FC-294	DECIBEL PRODUCTS DB404 (5.9 GAIN)	DUAL DIPOLE	5.9	406-512	Transmitter	Transmitter	Transmitter	Transmitter	MOTOROLA SPECTRA (UHF)	45.0	94/29	23/7
M350	DIPOLE	DIPOLE	2.1	132-174	Transmitter	Transmitter	Transmitter	Transmitter	DATARADIO T-96SR	5.0	62/19	15/5
M350	DIPOLE	DIPOLE	2.1	380-512	Transmitter	Transmitter	Transmitter	Transmitter	DATARADIO T-96SR	5.0	22/7	10/3

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Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter			Transmitter Type	(feet/me- ters)	(feet/me- ters)	HERO
			Avg. Power (watts)	Frequency (MHz)	Antenn a Gain (dBi)				LE
N/A (VERIZON WIRELESS CAMP LEJEUNE RELOCATE SITE )	AMPHENOL BXA-70063- 8CF (806-900 MHZ)	PANEL	18.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)	168/51	42/13	BLE
N/A (VERIZON WIRELESS CAMP LEJEUNE RELOCATE SITE )	AMPHENOL BXA-70063- 8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000 (LTE)	185/56	46/14	ORDNANCE ORDNANCE

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Power (watts)	Transmitter Type	Transm itter Max.	HERO UNSAFE / UNRELIAB	HERO SUSCEPTI
							Transmitt er Avg.	BLE	ORDNANCE
							(feet/me ters)	(feet/me ters)	
N/A (VERIZON WIRELESS CAMP LEJEUNE RELOCATE SITE)	CSS ANTENNA XP18-60	PANEL	17.8	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)	73/22	18/6	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Power	Type	Type	Type
N/A (VERIZON WIRELESS CAMP LEJEUNE SOUTH SITE)	AMPHENOL BXA-70080- 8CF (806-900 MHZ)	PANEL	17.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)			150/46	37/11	
N/A (VERIZON WIRELESS CAMP LEJEUNE SOUTH SITE)	AMPHENOL BXA-70080- 8CF (696-806 MHZ)	PANEL	16.6	746-756	40.0	ERICSSON RBS 6000 (LTE)			165/50	41/13	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Avg. Power (watts)	Transmitter Type	Transm itter Max.	HERO
							Transmitter Type	BLE
							(feet/me ters)	(feet/me ters)
N/A (VERIZON WIRELESS CAMP LEJEUNE SOUTH SITE)	CSS ANTENNA XP18-60	PANEL	17.8	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)	73/22	18/6
N/A (VERIZON WIRELESS CAMP LEJEUNE SOUTH SITE)	AMPHENOL BXA-70063- 8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000 (LTE)	185/56	46/14

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Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter			Transmitter Type	Transmitter Max.	Avg. Power (watts)	Transmitter (feet/meters)	LE ORDNANCE (feet/meters)	BLE ORDNANCE (feet/meters)	HERO UNSAFE/ UNRELIAB SUSCEPTIBILITY
			Antenna Gain (dBi)	Antenna Frequency (MHz)	Transmitter Frequency (MHz)							
N/A (VERIZON WIRELESS CAMP LEJEUNE SOUTH SITE)	CSS ANTENNA XP16-80	PANEL	16.5	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)			63/19	16/5		
N/A (VERIZON WIRELESS DUCK CREEK SITE)	CSS ANTENNA MP18-85	DIPOLE	18.1	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)			76/23	19/6		
N/A (VERIZON WIRELESS DUCK CREEK SITE)	AMPHENOL LPA-80080-8CF	LOG PERIODIC	17.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)			150/46	37/11		

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter	Transmitter
							Max.	Avg.	LE	BLE
							UNSAFE/ UNRELIAB	HERO SUSCEPTI	ORDNANCE	ORDNANCE
N/A (VERIZON WIRELESS DUCK CREEK SITE)	CSS ANTENNA MP19-65	PATCH ELEMENTS	19.0	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)	84/26	21/6		
N/A (VERIZON WIRELESS DUCK CREEK SITE)	AMPHENOL LPA-80063- 8CF	LOG PERIODIC	18.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)	168/51	42/13		
N/A (VERIZON WIRELESS DUCK CREEK SITE)	AMPHENOL BXA-70063- 8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000 (LTE)	185/56	46/14		

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
N/A (VERIZON WIRELESS FRENCH CREEK SITE)	AMPHENOL LPA-80063-8CF	LOG PERIODIC	18.1	869-894	40.0	MOTOROLA SC4812T-MC	(800 MHZ)	168/51	42/13
N/A (VERIZON WIRELESS FRENCH CREEK SITE)	CSS ANTENNA MP19-65	PATCH ELEMENTS	19.0	1930-1990	40.0	MOTOROLA SC4812T-MC	(1900 MHZ)	84/26	21/6
N/A (VERIZON WIRELESS FRENCH CREEK SITE)	AMPHENOL BXA-70063-8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000	(LTE)	185/56	46/14

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Power (watts)	Transmitter Type	Transm	HERO	
							itter	UNSAFE/	HERO
							Max.	UNRELIAB	SUSCEPTI
							Avg.	LE	BLE
							Power	ORDNANCE	ORDNANCE
							(watts)	(feet/meters)	(feet/meters)
N/A (VERIZON WIRELESS FRENCH CREEK SITE)	AMPHENOL LPA-80080- 8CF	LOG PERIODIC	17.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)	150/46	37/11	
N/A (VERIZON WIRELESS FRENCH CREEK SITE)	CSS ANTENNA MPI8-85	DIPOLE	18.1	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)	76/23	19/6	
N/A (VERIZON WIRELESS MARINE SITE)	CSS ANTENNA MPI9-65	PATCH ELEMENTS	19.0	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)	84/26	21/6	

N/A = Not assigned

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
N/A (VERIZON WIRELESS MARINE SITE)	AMPHENOL LPA-80063- 8CF	LOG PERIODIC	18.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)	168/51	42/13
N/A (VERIZON WIRELESS MARINE SITE)	AMPHENOL BXA-70063- 8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000 (LTE)	185/56	46/14
N/A (VERIZON WIRELESS OFFICERS CLUB SITE)	AMPHENOL BXA-70063- 8CF (806-900 MHZ)	PANEL	18.1	869-894	40.0	MOTOROLA SC4812T-MC (800 MHZ)	168/51	42/13

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Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter Gain (dBi)	Transmitter Frequency (MHz)	Power (watts)	Transmitter Type	Transmitter Max.		Transmitter Avg.		Transmitter Power		Transmitter (feet/meters)		Transmitter (feet/meters)	
							Transmitter	Max.	Transmitter	Avg.	Transmitter	Power	Transmitter	(feet/meters)	Transmitter	(feet/meters)
N/A (VERIZON WIRELESS OFFICERS CLUB SITE)	JAYBEAM WIRELESS PCSA065-19-X	PANEL	19.5	1930-1990	40.0	MOTOROLA SC4812T-MC (1900 MHZ)							89/27		22/7	
N/A (VERIZON WIRELESS OFFICERS CLUB SITE)	AMPHENOL BXA-70063-8CF (696-806 MHZ)	PANEL	17.6	746-756	40.0	ERICSSON RBS 6000 (LTE)							185/56		46/14	
RR-11	DECIBEL PRODUCTS DB222 SERIES (OMNIDIRECTI ONAL)	EXPOSED DIPOLE	5.1	137-174	110.0	MOTOROLA ASTRO DIGITAL SPECTRA (VHF) (HIGH POWER)							396/121		99/30	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Power (watts)	Transmitter Type	Transm itter	HERO
							Avg. Power	UNSAFE/ UNRELIAB LE
							Transmitter	HERO SUSCEPTI BLE
							ORDNANCE	ORDNANCE
RR-11	DECIBEL PRODUCTS DB222 SERIES (OMNIDIRECTI ONAL)	EXPOSED DIPOLE	5.1	137-174	50.0	MOTOROLA ASTRO DIGITAL SPECTRA (VHF) (MEDIUM POWER)	267/81	67/20
RR-11	DECIBEL PRODUCTS DB222 SERIES (OMNIDIRECTI ONAL)	EXPOSED DIPOLE	5.1	137-174	25.0	MOTOROLA ASTRO DIGITAL SPECTRA (VHF) (LOW POWER)	189/58	47/14
SBA 138	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5
SBA 138	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3
SH-50	WHIP	WHIP	2.1	403-512	45.0	MOTOROLA SPECTRA (UHF)	61/19	15/5
SR 60	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Type	Type
SR 60	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	HERO UNSAFE/ HERO UNRELIAB SUSCEPTI LE BLE ORDNANCE ORDNANCE
ST-21	FURUNO XN-5A	SLOTTED ARRAY	28.1	9380-9440	36.0	FURUNO FR-2155	47/14	12/4	(feet/me ters) (feet/me ters)
ST-25	OE-449/TPS-73	PARABOLIC	34.0	2705-2895	1100.0	AN/TPS-73	1765/538	441/135	
TC 575	DIPOLE	DIPOLE	2.1	132-174	5.0	DATARADIO T-96SR	62/19	15/5	
TC 575	DIPOLE	DIPOLE	2.1	380-512	5.0	DATARADIO T-96SR	22/7	10/3	
TOWER SITE COURTHOUSE BAY	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	40.0	ERICSSON RBS 3106	78/24	20/6	
TOWER SITE COURTHOUSE BAY	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	2110-2170	60.0	ERICSSON RBS 3106	88/27	22/7	

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Power	Type	Type	Type
TOWER SITE COURTHOUSE BAY	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	30.0	ERICSSON RBS2106			68/21	17/5	
TOWER SITE FRENCH CREEK	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	30.0	ERICSSON RBS2106			68/21	17/5	
TOWER SITE FRENCH CREEK	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	40.0	ERICSSON RBS3106			78/24	20/6	
TOWER SITE FRENCH CREEK	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	2110-2170	60.0	ERICSSON RBS3106			88/27	22/7	
TOWER SITE ONLSOW BEACH	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	30.0	ERICSSON RBS2106			68/21	17/5	
TOWER SITE ONLSOW BEACH	RFS APX16DWV-16DWVS-E-A20	PANEL	18.4	1930-1990	40.0	ERICSSON RBS3106			78/24	20/6	

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Power (watts)	Transmitter Type	Transm itter Max.	Transmitter Avg.	Transmitter Power	Transmitter Type	Transmitter (feet/meters)	Transmitter Type	Transmitter (feet/meters)
TOWER SITE ONLSOW BEACH	RFS APX16DWV- 16DWVS-E-A20	PANEL	18.4	2110-2170	60.0	ERICSSON RBS 3106					88/27		22/7
N/A = Not assigned													
VARIOUS (FIRE ALARM)	DIPOLE	DIPOLE	2.1	148-174	2.0	SEABOARD M-1A (4, 3, 8 AND 16 ZONES)					35/11		10/3
VARIOUS (FIRE ALARM)	DIPOLE	DIPOLE	2.1	450-470	2.0	SEABOARD M-1A					11/4		10/3
VARIOUS (FIRE ALARM)	DIPOLE	DIPOLE	2.1	138-174	1.0	KING FISHER KFI (GOVERNMENT USE ONLY)					27/8		10/3
VARIOUS (WELL PUMPS)	YAGI	YAGI	10.0	136-174	45.0	MOTOROLA RADIUS GM300					448/137		112/34

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Power (watts)	Transmitter Type	Transm itter		Transmitter	
							Max.	Avg.	(feet/meters)	(feet/meters)
VARIOUS (WELL PUMPS)	YAGI	YAGI	10.0	136-174	25.0	MOTOROLA RADIUS GM300	334/102	83/25		
VARIOUS (WELL PUMPS)	YAGI	YAGI	10.0	403-520	40.0	MOTOROLA RADIUS GM300	143/43	36/11		
VARIOUS (WELL PUMPS)	YAGI	YAGI	10.0	403-520	25.0	MOTOROLA RADIUS GM300	113/34	28/9		
HANDHELD	MOTOROLA HT 750	STUB	0.9	29-50	6.0	MOTOROLA HT 750 (HIGH)	98/30	24/7		
HANDHELD	MOTOROLA HT 750	STUB	0.9	29-50	1.0	MOTOROLA HT 750 (LOW)	40/12	10/3		
HANDHELD	MOTOROLA HT 750	STUB	0.9	136-174	5.0	MOTOROLA HT 750 (HIGH)	52/16	13/4		
HANDHELD	MOTOROLA HT 750	STUB	0.9	136-174	1.0	MOTOROLA HT 750 (LOW)	23/7	10/3		

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Power (watts)	Transmitter Type	Transm itter		Transm itter	
							Max.	Avg.	HERO UNSAFE/ UNRELIAB LE ORDNANCE	HERO SUSCEPTI BLE ORDNANCE
HANDHELD	MOTOROLA HT 750	STUB	0.9	403-470	4.0	MOTOROLA HT 750 (HIGH)				
32	HANDHELD	MOTOROLA HT 750	STUB	0.9	403-470	1.0	MOTOROLA HT 750 (LOW)			
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	136-174	6.0	MOTOROLA XTS 5000R (VHF)				
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	380-520	5.0	MOTOROLA XTS 5000R (UHF R1/R2)				
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	764-806	2.5	MOTOROLA XTS 5000R (700 MHZ)				
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	806-870	3.0	MOTOROLA XTS 5000R (800 MHZ)				

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								Separation Distances	
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er	Transm itter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Power (watts)	Type
HANDHELD	MOTOROLA XTS 2500	STUB	0.9	136-174	5.0	MOTOROLA ASTRO XTS 2500I (VHF)	52/16	13/4	
33	HANDHELD	MOTOROLA XTS 2500	STUB	0.9	380-470	5.0	MOTOROLA ASTRO XTS 2500I (UHF R1)	19/6	10/3
	HANDHELD	MOTOROLA XTS 2500	STUB	0.9	450-520	5.0	MOTOROLA ASTRO XTS 2500I (UHF R2)	16/5	10/3
	HANDHELD	MOTOROLA XTS 2500	STUB	0.9	764-806	3.0	MOTOROLA ASTRO XTS 2500I (700 MHZ)	10/3	10/3
	HANDHELD	MOTOROLA XTS 2500	STUB	0.9	806-870	3.0	MOTOROLA ASTRO XTS 2500I (800 MHZ)	10/3	10/3
	HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	136-174	6.0	MOTOROLA XTS 5000 (VHF)	57/17	14/4

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er Power (watts)	Transmitter Type	Transm itter Max.		HERO UNSAFE / UNRELIAB LE ORDNANCE	(feet/me ters)	HERO SUSCEPTI BLE ORDNANCE
							Transmitter	Avg. Power			
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	380-520	5.0	MOTOROLA XTS 5000 (UHF R1/R2)	19/6	10/3			
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	764-806	2.5	MOTOROLA XTS 5000 (700 MHZ)	10/3	10/3			
HANDHELD	MOTOROLA ASTRO XTS 5000	STUB	0.9	806-870	3.0	MOTOROLA XTS 5000 (800 MHZ)	10/3	10/3			
HANDHELD	CELLULAR TELEPHONE	STUB	3.1	824-849	4.0	CELLULAR TELEPHONE (HANDHELD) (ANALOG/DIGITAL )	10/3	10/3			

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
HANDHELD	CELLULAR TELEPHONE	STUB	3.1	1805-1880	2.0	CELLULAR TELEPHONE (HANDHELD) (DCS1800 CELL PHONE BAND)	CELLULAR TELEPHONE (HANDHELD)	10/3	10/3
HANDHELD	CELLULAR TELEPHONE	STUB	3.1	1850-1910	1.0	CELLULAR TELEPHONE (HANDHELD) (DIGITAL PCS BAND)	CELLULAR TELEPHONE (HANDHELD)	10/3	10/3
HANDHELD	MOTOROLA TALKABOUT MJ SERIES	STUB	0.0	462.55-462.725	3.15	MOTOROLA TALKABOUT MJ SERIES (GMRS)	MOTOROLA TALKABOUT MJ SERIES (GMRS)	11/3	10/3
HANDHELD	MOTOROLA TALKABOUT MJ SERIES	STUB	0.0	467.5625-467.7125	0.57	MOTOROLA TALKABOUT MJ SERIES (FRS)	MOTOROLA TALKABOUT MJ SERIES (FRS)	10/3	10/3

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)
HANDHELD	AN/PRC-148	30-90 MHZ BLADE OR 30-512 MHZ HELICAL WHIP	0.0	30-512	5.0	AN/PRC-148 (V) (C) MBITR (FM OR AM)	80/25	20/6
HANDHELD	AN/PRC-148	30-90 MHZ BLADE OR 30-512 MHZ HELICAL WHIP	0.0	30-512	3.0	AN/PRC-148 (V) (C) MBITR (FM)	62/19	16/5
HANDHELD	AN/PRC-148	30-90 MHZ BLADE OR 30-512 MHZ HELICAL WHIP	0.0	30-512	1.0	AN/PRC-148 (V) (C) MBITR (FM OR AM)	36/11	10/3

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Power (watts)	Transm itter	Transmitter	Transmitter Type	(feet/me ters)	(feet/me ters)
						Max.	Avg.			
HANDHELD	AN/PRC-148	30-90 MHZ BLADE OR 30-512 MHZ HELICAL WHIP	0.0	30-512	0.5	AN/PRC-148 (V) (C)	MBITR (FM)	25/8	10/3	
HANDHELD	AN/PRC-148	30-90 MHZ BLADE OR 30-512 MHZ HELICAL WHIP	0.0	30-512	0.1	AN/PRC-148 (V) (C)	MBITR (FM)	11/3	10/3	
MOBILE	MOTOROLA PTP 600 SERIES BRIDGE	INTEGRATED FLAT PLATE	23.5	5470-5725	0.316	MOTOROLA PTP 54600 BP5530BHC-2AA		10/3	10/3	
MOBILE	WHIP	WHIP	2.1	30-90	50.0	AN/VRC-110 [AN/PRC-152 (C)] (PEP)	324/99	81/25		

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Type	Type	Type
MOBILE	WHIP	WHIP	2.1	30-90	20.0	AN/VRC-110 [AN/PRC-152(C)] (20-WATT MODE)		205/63	51/16	
MOBILE	WHIP	WHIP	2.1	30-90	5.0	AN/VRC-110 [AN/PRC-152(C)] (5-WATT MODE)		103/31	26/8	
MOBILE	WHIP	WHIP	2.1	90-512	5.0	AN/VRC-110 [AN/PRC-152(C)] (LOS)		91/28	23/7	
MOBILE	WHIP	WHIP	2.1	225-400	50.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND HIGH)		115/35	29/9	
MOBILE	WHIP	WHIP	2.1	225-400	20.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND LOW)		73/22	18/6	

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.
						Transmitter Type	Type	(feet/meters)	Transmitter Type	Type	(feet/meters)	Transmitter Type	Type	(feet/meters)	Transmitter Type	Type	(feet/meters)	Transmitter Type	Type	(feet/meters)
39	MOBILE	N/A	PARABOLIC	22.3	14400-15250	0.316	AN/GRC-239	10/3				HERO			UNSAFE/	HERO				
	MOBILE	DPV-49N	DIPOLE	6.0	1200-2000	100.0	AN/VRC-99		48/15			UNRELIAB	SUSCEPTI		BLE					
	MOBILE	DPV-49N	DIPOLE	6.0	1200-2000	10.0	AN/VRC-99		15/5			ORDNANCE	ORDNANCE							
	MOBILE	WHIP	WHIP	2.1	116-150	10.0	AN/VRC-83 (V) 2		100/30			(VHF)								
	MOBILE	WHIP	WHIP	2.1	225-400	10.0	AN/VRC-83 (V) 2		51/16			(UHF)								
	MOBILE	WHIP	WHIP	2.1	3-60	150.0	AN/VRC-104 (V) 3 [AN/PRC-150 (C)]		561/171			(150-WATT AMPLIFIER)								
	MOBILE	WHIP	WHIP	2.1	3-60	20.0	AN/VRC-104 (V) 3 [AN/PRC-150 (C)]		205/63			(W/O 150-WATT AMPLIFIER)								

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter Max. Avg. Power (watts)	Transmitter Type	Transmitter (feet/meters)	Transmitter (feet/meters)	Transmitter (feet/meters)
MOBILE	WHIP	WHIP	2.1	403-470	40.0	MOTOROLA MAXTRAC (UHF) (HIGH POWER)			57/18	14/4	
MOBILE	WHIP	WHIP	2.1	403-470	25.0	MOTOROLA MAXTRAC (UHF) (LOW POWER)			45/14	11/3	
MOBILE	WHIP	WHIP	2.1	136-174	45.0	MOTOROLA MAXTRAC (VHF)			180/55	45/14	
MOBILE	WHIP	WHIP	2.1	136-174	25.0	MOTOROLA MAXTRAC (VHF)			135/41	34/10	
MOBILE	DRIVECAM DC3C	STUB	3.0	824-849	0.316	DRIVECAM DC3C (CELLULAR)			10/3	10/3	
N/A = Not assigned											
MOBILE	DRIVECAM DC3C	STUB	3.0	1850-1910	0.316	DRIVECAM DC3C (PCS)			10/3	10/3	

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er Power (watts)	Transm itter	Transmitter	Transm itter	Transmitter
						Max.	Avg.	Type	Type
MOBILE	WHIP	WHIP	2.1	29-50	60.0	MOTOROLA MAXTRAC (29 MHZ-50 MHZ)		355/108	89/27
41									
MOBILE	AS-3900A/VRC	WHIP	1.0	30-80	50.0	AN/VRC-89A	286/87	71/22	
MOBILE	AS-3900A/VRC	WHIP	1.0	30-80	50.0	AN/VRC-94F	286/87	71/22	
MOBILE	AS-3900A/VRC	WHIP	1.0	30-80	50.0	AN/VRC-92A [AM-7238 (AMP)]	286/87	71/22	
MOBILE	AS-3900A/VRC	WHIP	1.0	30-80	50.0	AN/VRC-90A	286/87	71/22	
MOBILE	WHIP	WHIP	2.1	138-150	35.0	AN/VRC-82 (V) 2	157/48	39/12	
MOBILE	AS-3683	VERTICAL	1.5	30-88	50.0	AN/PRC-119 (WITH AMP)	303/92	76/23	
MOBILE	AS-3683	VERTICAL	1.5	30-88	4.5	AN/PRC-119	91/28	23/7	
MOBILE	AS-2259/GR	NVIS	6.0	2-30	400.0	AN/MRC-138A (HIGH POWER)	1437/438	359/109	
MOBILE	AS-2259/GR	NVIS	6.0	2-30	100.0	AN/MRC-138A (LOW POWER)	718/219	180/55	

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter		HERO		
							Max.	Avg.	UNSAFE / UNRELIAB	HERO SUSCEPTIBLE	
MOBILE	AT-892/PRC-25	3-FOOT WHIP	2.1	30-76	2.0	AN/PRC-68B	65/20	16/5	ORDNANCE	ORDNANCE	
42	MOBILE	AS-1729/VRC	WHIP ANTENNA	2.1	30-76	65.0	AN/MRC-110	370/113	92/28		
	MOBILE	AS-1729/VRC	WHIP ANTENNA	2.1	32-76	35.0	AN/MRC-110	271/83	68/21		
	MOBILE	N/A	PARABOLIC	22.3	16000-16500	1.0	AN/PPS-5	10/3	10/3		
	MOBILE	N/A	PARABOLIC	22.3	16000-16500	0.0	AN/PPS-5	0/0*	0/0*		
	MOBILE	AS-3567/PSC-3 (HIGH)	CROSSED DIPOLE	5.5	318-400	35.0	AN/PSC-3 (SATCOM)	101/31	25/8		
	MOBILE	AS-3567/PSC-3 (HIGH)	CROSSED DIPOLE	5.5	318-400	2.0	AN/PSC-3 (LOS)	24/7	10/3		
	MOBILE	OE-254/GRC	MULTI-ELEMENT	5.1	30-52.95	2.0	AN/PRC-77 (LOW BAND)	92/28	23/7		

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Transm itter	Transmitter Type	(feet/me ters)	ORDNANCE (feet/me ters)	
						Max.				
					Transmitt er	Avg.	Power (watts)			
MOBILE	OE-254/GRC	MULTI-ELEMENT	5.1	53-75.95	2.0	AN/PRC-77 (HIGH BAND)	92/28	23/7		
43	MOBILE	AT-271A/PRC	WHIP	2.1	30-52.95	2.0	AN/PRC-77 (LOW BAND)	65/20	16/5	
	MOBILE	AT-271A/PRC	WHIP	2.1	53-75.95	2.0	AN/PRC-77 (HIGH BAND)	65/20	16/5	
	MOBILE	AS-2259/GR	NVIS	6.0	2-30	20.0	AN/PRC-104 (SSB)	321/98	80/24	
	MOBILE	AT-271A/PRC	WHIP	2.1	2-30	20.0	AN/PRC-104 (SSB)	205/63	51/16	
	MOBILE	AT-1011/U	32-FOOT WHIP	2.1	2-30	20.0	AN/PRC-104 (SSB)	205/63	51/16	
	MOBILE	AS-2259/GR	NVIS	6.0	2-30	400.0	AN/GRC-193 (HIGH)	1437/438	359/109	
	MOBILE	AS-2259/GR	NVIS	6.0	2-30	100.0	AN/GRC-193 (LOW)	718/219	180/55	

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er	Transm itter Max. Avg. Power (watts)	Transmitter Type		Transmitter	Transmitter
							Transmitter	Type		
MOBILE	AT-1011/U	32-FOOT WHIP	2.1	2-30	400.0	AN/GRC-193 (HIGH)	917/280	229/70		
44	MOBILE	AT-1011/U	32-FOOT WHIP	2.1	2-30	100.0	AN/GRC-193 (LOW)	458/140	115/35	
	MOBILE	WHIP	WHIP	2.1	116-150	10.0	AN/PRC-113(V) (LOW)	100/30	25/8	
	MOBILE	WHIP	WHIP	2.1	225-400	10.0	AN/PRC-113(V) (HIGH)	51/16	13/4	
	MOBILE	AT-271A/PRC	WHIP	2.1	225-420	20.0	AN/PRC-117F(C) (UHF-LOS) (FM)	73/22	18/6	
	MOBILE	AT-271A/PRC	WHIP	2.1	225-420	10.0	AN/PRC-117F(C) (UHF-LOS) (AM)	51/16	13/4	
	MOBILE	AT-271A/PRC	WHIP	2.1	420-512	10.0	AN/PRC-117F(C) (UHF-LOS) (FM)	28/8	10/3	
	MOBILE	AT-271A/PRC	WHIP	2.1	420-512	4.0	AN/PRC-117F(C) (UHF-LOS) (AM)	17/5	10/3	

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Transm itter	Transmitter Type	(feet/me ters)	HERO UNSAFE/ UNRELIAB LE ORDNANCE (feet/me ters)
						Max.			
MOBILE	AS-3036/TSC	PARABOLIC	45.3	7900-8400	500.0	AN/TSC-93A/B (DIGITAL VOICE)	1497/456	374/114	
45	MOBILE	WHIP	2.1	225-400	3.0	AN/PRC-41	28/9	10/3	
	MOBILE	WHIP	2.1	225-400	50.0	AN/GRC-171(V)1 (FM)	115/35	29/9	
	MOBILE	WHIP	2.1	225-400	20.0	AN/GRC-171(V)1 (AM)	73/22	18/6	
	PORABLE	WHIP	2.1	225-400	1.0	AN/PRC-75	16/5	10/3	
	* Do not allow antenna to touch ordnance items.								
	N/A = Not assigned								
	PORABLE	WHIP	2.1	132-174	2.2	AN/PRC-94	41/13	10/3	
	PORABLE	STUB (GENERIC)	0.9	136-174	5.0	MOTOROLA RADIUS GP350 (VHF HIGH)	52/16	13/4	
	PORABLE	STUB (GENERIC)	0.9	136-174	1.0	MOTOROLA RADIUS GP350 (VHF LOW)	23/7	10/3	

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Power (watts)	Transmitter Type	Separation Distances	
							Max.	Avg.
PORTABLE	STUB (GENERIC)	STUB	0.9	403-520	4.0	MOTOROLA RADIUS GP350 (UHF HIGH)	16/5	10/3
PORTABLE	STUB (GENERIC)	STUB	0.9	403-520	1.0	MOTOROLA RADIUS GP350 (UHF LOW)	10/3	10/3
PORTABLE	STUB (GENERIC)	STUB	0.9	136-174	5.0	MOTOTOROLA ASTRO DIGITAL SABER (HIGH)	52/16	13/4
PORTABLE	STUB (GENERIC)	STUB	0.9	403-520	4.0	MOTOTOROLA ASTRO DIGITAL SABER (HIGH)	16/5	10/3
PORTABLE	STUB (GENERIC)	STUB	0.9	806-824	3.0	MOTOTOROLA ASTRO DIGITAL SABER (HIGH)	10/3	10/3
PORTABLE	STUB (GENERIC)	STUB	0.9	851-870	3.0	MOTOTOROLA ASTRO DIGITAL SABER (HIGH)	10/3	10/3

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Power (watts)	Transmitter Type	Transm itter Avg. Power (watts)		Transm itter Avg. Power (watts)	
							Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type
POR TABLE	STUB (GENERIC)	STUB	0.9	136-174	5.0	MOTOROLA XTS 3000	52/16	13/4		
47	POR TABLE	STUB (GENERIC)	STUB	0.9	403-520	4.0	MOTOROLA XTS 3000	16/5	10/3	
POR TABLE	STUB (GENERIC)	STUB	0.9	806-824	3.0	MOTOROLA XTS 3000	10/3	10/3		
POR TABLE	MOTOROLA SABER	STUB	0.9	403-470	4.0	MOTOROLA SABER (UHF) (UHF RANGE 1)	16/5	10/3		
POR TABLE	UVU-100	DIPOLE	2.5	225-400	50.0	AN/URC-200 (UHF) (WITH UPA-50)	120/37	30/9		
POR TABLE	UVU-100	DIPOLE	2.5	225-400	10.0	AN/URC-200 (UHF) (FM/AM HIGH POWER)	54/16	13/4		

## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Type	Type
PORTABLE	UVU-100	DIPOLE	2.5	225-400	5.0	AN/URC-200 (UHF) (FM MEDIUM/AM LOW)		38/12	10/3
PORTABLE	UVU-100	DIPOLE	2.5	225-400	0.1	AN/URC-200 (UHF) (FM LOW)		10/3	5/1.5
PORTABLE	UVU-100	DIPOLE	2.5	115-174	50.0	AN/URC-200 (VHF) (WITH UPA-50)		236/72	59/18
PORTABLE	UVU-100	DIPOLE	2.5	115-174	10.0	AN/URC-200 (VHF) (FM/AM HIGH POWER)		105/32	26/8
PORTABLE	UVU-100	DIPOLE	2.5	115-174	5.0	AN/URC-200 (VHF) (FM MEDIUM/AM LOW)		74/23	19/6

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Max.	Avg. Power (watts)	Transmitter Type	Transm itter	Transm itter	HERO UNSAFE / UNRELIAB LE ORDNANCE (feet/meters)	HERO ORDNANCE (feet/meters)
								Avg. Power	Transmitter		
POR TABLE	UVU-100	DIPOLE	2.5	115-174	0.1	AN/URC-200 (VHF) (FM LOW)		11/3	5/1.5		
POR TABLE	AN/GSQ-257		2.1	138-153	2.0	AN/GSQ-257		37/11	10/3		
POR TABLE	AS-2544A/PPN-18	STUB	4.1	16250-16280	0.441	AN/PPN-18		10/3	10/3		

AH-1W/T (SUPER COBRA)

ALTIMETER	HORN ARRAY	HORN ARRAY	10.5	4250-4350	0.6	AN/APN-194(V)		10/3	10/3		
VHF-UHF	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182(V) [FM (SINCGARS)]		178/54	44/14		
VHF-UHF	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182(V) (VHF-AM)		98/30	25/7		
VHF-UHF	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182(V) (VHF-FM)		91/28	23/7		
VHF-UHF	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182(V) (UHF-FM)		63/19	16/5		

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Power (watts)	Transmitter Type	Transm itter		Transmitter	Transmitter
								Max.	Avg.		
VHF-UHF	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182(V) (UHF-AM)	51/16	13/4			
<b>AV-8B (HARRIER)</b>											
ALTIMETER	HORN	HORN	10.5	4250-4350	0.6	AN/APN-194(V)	10/3	10/3			
BEACON	AS-3546/APN	OMNIDIRECTI ONAL	6.0	8500-9500	8.0	AN/APN-202	10/3	10/3			
IFF	OMNI 50-7-4	BLADE	2.1	1090	0.56	AN/APX-100(V)1	10/3	10/3			
RADAR	AS-3254	PLANAR ARRAY	34.0	CLASSIFI ED	CLASSI FIED	AN/APG-65	436/133	109/33			
VHF/UHF	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182(V) [FM (SINCGARS)]	178/54	44/14			
<b>AV-8B (HARRIER) (CONT.)</b>											
VHF/UHF	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182(V) (VHF-AM)	98/30	25/7			
VHF/UHF	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182(V) (VHF-FM)	91/28	23/7			

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Power (watts)	Transmitter Type	Transm itter		Transmitter	
							Max.	Avg.	Max.	Avg.
VHF/UHF	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182(V) (UHF-FM)	63/19	16/5	HERO UNSAFE/ UNRELIAB	HERO SUSCEPTI BLE
VHF/UHF	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182(V) (UHF-AM)	51/16	13/4	ORDNANCE ORDNANCE (feet/met ers)	(feet/met ers)

CH-46E (SEA KNIGHT)

ALTIMETER	AS-1858/APN	DUAL HORN	13.0	4300	0.5	AN/APN-171(V)1	10/3	10/3
BEACON	ARRAY	ARRAY	6.0	8800-9500	8.0	AN/APN-154(V)	10/3	10/3
COMMS	BLADE	BLADE	2.1	225-400	20.0	AN/ARC-51A	73/22	18/6
COMMS	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182(V) [FM (SINCGARS)]	178/54	44/14
COMMS	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182(V) (VHF-AM)	98/30	25/7
COMMS	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182(V) (VHF-FM)	91/28	23/7
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182(V) (UHF-FM)	63/19	16/5

								Separation Distances	
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Avg. Power (watts)	Transmitter Type		Transm itter Max. Avg. Power (watts)	Transm itter Max. Avg. Power (watts)
								Transm itter Max. Avg. Power (watts)	Transm itter Max. Avg. Power (watts)
52	COMMS	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182(V) (UHF-AM)	51/16	13/4
	COMMS	437R-1	LONGWIRE	2.1	2-30	400.0	AN/ARC-94 (SSB)	917/280	229/70
	COMMS	437R-1	LONGWIRE	2.1	2-30	100.0	AN/ARC-94 (CW/AM)	458/140	115/35
	COMMS	OMNI 50-7-4	BLADE	2.1	30-88	23.0	AN/ARC-210(V) (FM 1 HIGH)	220/67	55/17
	COMMS	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-210(V) (FM 1 LOW)	178/54	44/14
	COMMS	OMNI 50-7-4	BLADE	2.1	108-156	15.0	AN/ARC-210(V) (AM 1 HIGH)	131/40	33/10
	COMMS	OMNI 50-7-4	BLADE	2.1	108-156	10.0	AN/ARC-210(V) (AM 1 LOW)	107/33	27/8
	COMMS	OMNI 50-7-4	BLADE	2.1	156-174	23.0	AN/ARC-210(V) (FM 2 HIGH)	112/34	28/9
	COMMS	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-210(V) (FM 2 LOW)	91/28	23/7

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Power (watts)	Transmitter Type	Transm itter Avg. Power (watts)		Transm itter Avg. Power (watts)	
							Transmitter Type	Transmitter Avg. Power (watts)	Transmitter Avg. Power (watts)	Transmitter Avg. Power (watts)
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-210(V) (AM 2 HIGH)	63/19	16/5		
53	COMMS	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-210(V) (AM 2 LOW)	51/16	13/4	
	DOPPLER	AN/APN-217A	APERTURE	26.2	13285-13315	0.2	AN/APN-217A	10/3	10/3	
	DOPPLER	N/A	PLANAR ARRAY	37.3	13300	5.0	AN/APN-182(V)	35/11	10/3	
	IFF	AT-741B/A	BLADE	2.6	1090	5.0	AN/APX-72A	10/3	10/3	
	PLRS	AS-3446/ASQ-177	BLADE	2.1	420-450	100.0	AN/ASQ-177(V) 2 (HI-POWER)	87/27	22/7	
	PLRS	AS-3446/ASQ-177	BLADE	2.1	420-450	20.0	AN/ASQ-177(V) 2	39/12	10/3	
	PLRS	AS-3446/ASQ-177	BLADE	2.1	420-450	3.0	AN/ASQ-177(V) 2	15/5	10/3	
	PLRS	AS-3446/ASQ-177	BLADE	2.1	420-450	0.4	AN/ASQ-177(V) 2	10/3	10/3	

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Transm itter Max.	Transmitter		Transmitter	
							Avg. Power (watts)	Type	(feet/me ters)	HERO UNSAFE / UNRELIAB LE ORDNANCE (feet/me ters)
CH-53D (SEA STALLION)										
ALTIMETER	LG-81A1	FLUSH-MOUNT	13.0	4290-4310	0.5	AN/APN-171(V)	1	10/3	10/3	
BEACON	ARRAY	ARRAY	6.0	8800-9500	8.0	AN/APN-154(V)		10/3	10/3	
COMMS	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182(V) [FM (SINCGARS)]		178/54	44/14	
COMMS	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182(V) (VHF-AM)		98/30	25/7	
COMMS	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182(V) (VHF-FM)		91/28	23/7	
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182(V) (UHF-FM)		63/19	16/5	
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182(V) (UHF-AM)		51/16	13/4	
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	400.0	AN/ARC-94 (SSB)		917/280	229/70	
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-94 (CW/AM)		458/140	115/35	

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Enclosure (6)

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								Separation Distances	
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transm itter Max.	Avg. Power (watts)	Transmitter Type	Transm itter	Transmitter
								Max.	Avg.
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	175.0	AN/ARC-220 (MT 7107 POWER AMPLIFIER)	AN/ARC-220 (MT 7107 POWER AMPLIFIER)	606/185	152/46
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-220 (HIGH)	AN/ARC-220 (HIGH)	458/140	115/35
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	50.0	AN/ARC-220 (MED)	AN/ARC-220 (MED)	324/99	81/25

N/A = Not assigned

CH-53D (SEA STALLION) (CONT.)								
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	10.0	AN/ARC-220 (LOW)	AN/ARC-220 (LOW)	145/44
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-174 (V)	AN/ARC-174 (V)	458/140
COMMS	AS-3881/ASQ	BLADE	2.1	30-88	23.0	AN/ARC-210 (V) (FM 1 HIGH)	AN/ARC-210 (V) (FM 1 HIGH)	220/67
COMMS	AS-3881/ASQ	BLADE	2.1	30-88	15.0	AN/ARC-210 (V) (FM 1 LOW)	AN/ARC-210 (V) (FM 1 LOW)	178/54

								Separation Distances			
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er Power (watts)	Transmitter Type	Transm itter Max. Avg.	Transm itter	Transm itter	Transm itter	Transm itter
								Power (watts)	Transmitter Type	Transmitter	Transmitter
COMMS	AS-3881/ASQ	BLADE	2.1	108-156	15.0	AN/ARC-210(V) (AM 1 HIGH)	131/40	33/10			
56	COMMS	AS-3881/ASQ	BLADE	2.1	108-156	10.0	AN/ARC-210(V) (AM 1 LOW)	107/33	27/8		
	COMMS	AS-3881/ASQ	BLADE	2.1	156-174	23.0	AN/ARC-210(V) (FM 2 HIGH)	112/34	28/9		
	COMMS	AS-3881/ASQ	BLADE	2.1	156-174	15.0	AN/ARC-210(V) (FM 2 LOW)	91/28	23/7		
	COMMS	AS-3881/ASQ	BLADE	2.1	225-400	15.0	AN/ARC-210(V) (AM 2 HIGH)	63/19	16/5		
	COMMS	AS-3881/ASQ	BLADE	2.1	225-400	10.0	AN/ARC-210(V) (AM 2 LOW)	51/16	13/4		
	DOPPLER	AN/APN-217A	APERTURE	26.2	13285-13315	0.2	AN/APN-217A	10/3	10/3		
	IFF	AS-133	STUB	2.1	1090	5.5	AN/APX-72B	10/3	10/3		
	IFF	AT-234	STUB	2.1	1090	5.5	AN/APX-64(V)	10/3	10/3		

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Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Power (watts)	Transmitter Type	Transmitter		Transmitter	
							Max.	Avg.	Max.	Avg.
TACAN	AT-741B/A	BLADE	2.6	1025-1150	10.9	AN/ARN-118 (V)	12/4	10/3	HERO UNSAFE/	HERO UNRELIAB SUSCEPTI
TACAN	LB-147	STUB	2.1	1025-1150	1.0	AN/ARN-52	10/3	10/3	LE ORDNANCE	BLE ORDNANCE
CH-53E (SUPER STALLION)										
ALTIMETER	LG-81A1	FLUSH-MOUNT	13.0	4290-4310	0.5	AN/APN-171 (V) 1	10/3	10/3		
BEACON	ARRAY	ARRAY	6.0	8800-9500	8.0	AN/APN-154 (V)	10/3	10/3		
COMMS	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182 (V) [FM (SINCGARS)]	178/54	44/14		
COMMS	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182 (V) (VHF-AM)	98/30	25/7		
COMMS	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182 (V) (VHF-FM)	91/28	23/7		
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182 (V) (UHF-FM)	63/19	16/5		
COMMS	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182 (V) (UHF-AM)	51/16	13/4		
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	400.0	AN/ARC-94 (SSB)	917/280	229/70		

									Separation Distances		
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transm itter Max. Avg.	Transmitter Power (watts)	Transmitter Type	Transmitter Power (watts)	Transmitter Type
COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-94 (CW/AM)	458/140	115/35		HERO UNSAFE/ UNRELIAB LE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
58	COMMS	LONGWIRE	LONGWIRE	2.1	2-30	175.0	AN/ARC-220 (MT 7107 POWER AMPLIFIER)	606/185	152/46		
	COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-220 (HIGH)	458/140	115/35		
	COMMS	LONGWIRE	LONGWIRE	2.1	2-30	50.0	AN/ARC-220 (MED)	324/99	81/25		
	COMMS	LONGWIRE	LONGWIRE	2.1	2-30	10.0	AN/ARC-220 (LOW)	145/44	36/11		
	COMMS	LONGWIRE	LONGWIRE	2.1	2-30	100.0	AN/ARC-174 (V)	458/140	115/35		
	COMMS	AS-3881/ASQ	BLADE	2.1	30-88	23.0	AN/ARC-210 (V) (FM 1 HIGH)	220/67	55/17		
	COMMS	AS-3881/ASQ	BLADE	2.1	30-88	15.0	AN/ARC-210 (V) (FM 1 LOW)	178/54	44/14		

## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er Max.	Avg. Power (watts)	Transmitter Type	Transm itter	Transm itter	Transm itter	Transm itter
								Max.	Avg.	Max.	Avg.
								UNSAFE/ UNRELIAB LE ORDNANCE	HERO SUSCEPTIBLE ORDNANCE	HERO SUSCEPTIBLE ORDNANCE	HERO SUSCEPTIBLE ORDNANCE
COMMS	AS-3881/ASQ	BLADE	2.1	108-156	15.0	AN/ARC-210(V) (AM 1 HIGH)	AN/ARC-210(V) (AM 1 HIGH)	131/40	33/10	131/40	33/10
COMMS	AS-3881/ASQ	BLADE	2.1	108-156	10.0	AN/ARC-210(V) (AM 1 LOW)	AN/ARC-210(V) (AM 1 LOW)	107/33	27/8	107/33	27/8
COMMS	AS-3881/ASQ	BLADE	2.1	156-174	23.0	AN/ARC-210(V) (FM 2 HIGH)	AN/ARC-210(V) (FM 2 HIGH)	112/34	28/9	112/34	28/9
COMMS	AS-3881/ASQ	BLADE	2.1	156-174	15.0	AN/ARC-210(V) (FM 2 LOW)	AN/ARC-210(V) (FM 2 LOW)	91/28	23/7	91/28	23/7
COMMS	AS-3881/ASQ	BLADE	2.1	225-400	15.0	AN/ARC-210(V) (AM 2 HIGH)	AN/ARC-210(V) (AM 2 HIGH)	63/19	16/5	63/19	16/5
COMMS	AS-3881/ASQ	BLADE	2.1	225-400	10.0	AN/ARC-210(V) (AM 2 LOW)	AN/ARC-210(V) (AM 2 LOW)	51/16	13/4	51/16	13/4
DOPPLER	AN/APN-217A	APERTURE	26.2	13285-13315	0.2	AN/APN-217A	AN/APN-217A	10/3	10/3	10/3	10/3
IFF	AS-133	STUB	2.1	1090	5.5	AN/APX-72B	AN/APX-72B	10/3	10/3	10/3	10/3
IFF	AT-234	STUB	2.1	1090	5.5	AN/APX-64(V)	AN/APX-64(V)	10/3	10/3	10/3	10/3

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Transmitter			Transmitter Type	(feet/meters)	Transmitter Type	(feet/meters)
			Avg. Power (watts)	Transmitter Frequency (MHz)	Antenna Gain (dBi)				
TACAN	AT-741B/A	BLADE	10.9	1025-1150	2.6	AN/ARN-118(V)	12/4	UNSAFE/ UNRELIAB	HERO SUSCEPTIBLE
TACAN	LB-147	STUB	1.0	1025-1150	2.1	AN/ARN-52	10/3	HERO SUSCEPTIBLE	BLE ORDNANCE

**UH-1N (HUEY)**

ALTIMETER	AS-1858/APN	DUAL HORN	13.0	4300	0.5	AN/APN-171(V)1	10/3	10/3
HF	LONGWIRE	LONGWIRE	2.1	2-30	400.0	AN/ARC-102	917/280	229/70
IFF	AT-741B/A	BLADE	2.6	1090	5.0	AN/APX-72A	10/3	10/3
TACAN	AT-741B/A	BLADE	2.6	1025-1150	10.0	AN/ARN-105(V)	12/4	10/3
VHF-UHF	OMNI 50-7-4	BLADE	2.1	30-88	15.0	AN/ARC-182(V) [FM (SINCGARS)]	178/54	44/14
VHF-UHF	OMNI 50-7-4	BLADE	2.1	118-156	10.0	AN/ARC-182(V) (VHF-AM)	98/30	25/7
VHF-UHF	OMNI 50-7-4	BLADE	2.1	156-174	15.0	AN/ARC-182(V) (VHF-FM)	91/28	23/7
VHF-UHF	OMNI 50-7-4	BLADE	2.1	225-400	15.0	AN/ARC-182(V) (UHF-FM)	63/19	16/5

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter		HERO UNSAFE / UNRELIAB LE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE BLE ORDNANCE (feet/meters)																																																																								
							Max.	Avg.																																																																										
VHF-UHF	OMNI 50-7-4	BLADE	2.1	225-400	10.0	AN/ARC-182(V) (UHF-AM)	51/16	13/4																																																																										
<b>LCAC</b>																																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">HF-SSB</td> <td style="width: 15%;">N/A</td> <td style="width: 15%;">WHIP</td> <td style="width: 15%;">2.1</td> <td style="width: 15%;">2.0-30.0</td> <td style="width: 15%;">100.0</td> <td style="width: 15%;">AN/URC-92 (CW)</td> <td style="width: 15%;">458/140</td> <td style="width: 15%;">115/35</td> </tr> <tr> <td>HF-SSB</td> <td>N/A</td> <td>WHIP</td> <td>2.1</td> <td>2.0-30.0</td> <td>100.0</td> <td>AN/URC-92 (SSB)</td> <td>458/140</td> <td>115/35</td> </tr> <tr> <td>HF-SSB</td> <td>N/A</td> <td>WHIP</td> <td>2.1</td> <td>2.0-30.0</td> <td>30.0</td> <td>AN/URC-92 (AME)</td> <td>251/77</td> <td>63/19</td> </tr> <tr> <td>IFF</td> <td>AS-177B/UPX</td> <td>MODIFIED DIPOLE</td> <td>2.8</td> <td>1090.0</td> <td>0.56</td> <td>AN/APX-100(V)1</td> <td>10/3</td> <td>10/3</td> </tr> <tr> <td>N/A</td> <td>DIPOLE</td> <td>DIPOLE</td> <td>2.1</td> <td>30.0-88.0</td> <td>50.0</td> <td>AN/VRC-90A</td> <td>324/99</td> <td>81/25</td> </tr> <tr> <td>N/A</td> <td>DIPOLE</td> <td>DIPOLE</td> <td>2.1</td> <td>30.0-88.0</td> <td>50.0</td> <td>AN/VRC-89A</td> <td>324/99</td> <td>81/25</td> </tr> <tr> <td>NAV RADAR</td> <td>SCOUT RADAR</td> <td>SLOTTED ARRAY</td> <td>30.0</td> <td>9345.0- 9405.0</td> <td>6.25</td> <td>LN 66 (12 NMI)</td> <td>24/7</td> <td>10/3</td> </tr> <tr> <td>NAV RADAR</td> <td>SCOUT RADAR</td> <td>SLOTTED ARRAY</td> <td>30.0</td> <td>9345.0- 9405.0</td> <td>4.0</td> <td>LN 66 (36 NMI)</td> <td>19/6</td> <td>10/3</td> </tr> </table>											HF-SSB	N/A	WHIP	2.1	2.0-30.0	100.0	AN/URC-92 (CW)	458/140	115/35	HF-SSB	N/A	WHIP	2.1	2.0-30.0	100.0	AN/URC-92 (SSB)	458/140	115/35	HF-SSB	N/A	WHIP	2.1	2.0-30.0	30.0	AN/URC-92 (AME)	251/77	63/19	IFF	AS-177B/UPX	MODIFIED DIPOLE	2.8	1090.0	0.56	AN/APX-100(V)1	10/3	10/3	N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-90A	324/99	81/25	N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-89A	324/99	81/25	NAV RADAR	SCOUT RADAR	SLOTTED ARRAY	30.0	9345.0- 9405.0	6.25	LN 66 (12 NMI)	24/7	10/3	NAV RADAR	SCOUT RADAR	SLOTTED ARRAY	30.0	9345.0- 9405.0	4.0	LN 66 (36 NMI)	19/6	10/3
HF-SSB	N/A	WHIP	2.1	2.0-30.0	100.0	AN/URC-92 (CW)	458/140	115/35																																																																										
HF-SSB	N/A	WHIP	2.1	2.0-30.0	100.0	AN/URC-92 (SSB)	458/140	115/35																																																																										
HF-SSB	N/A	WHIP	2.1	2.0-30.0	30.0	AN/URC-92 (AME)	251/77	63/19																																																																										
IFF	AS-177B/UPX	MODIFIED DIPOLE	2.8	1090.0	0.56	AN/APX-100(V)1	10/3	10/3																																																																										
N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-90A	324/99	81/25																																																																										
N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-89A	324/99	81/25																																																																										
NAV RADAR	SCOUT RADAR	SLOTTED ARRAY	30.0	9345.0- 9405.0	6.25	LN 66 (12 NMI)	24/7	10/3																																																																										
NAV RADAR	SCOUT RADAR	SLOTTED ARRAY	30.0	9345.0- 9405.0	4.0	LN 66 (36 NMI)	19/6	10/3																																																																										

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter	Transmitter	Transmitter
NAV RADAR	SCOUT RADAR	SLOTTED ARRAY	30.0	9345.0-9405.0	1.25	LN 66 (1/4, 3/4, 1-1/2 AND 4 NMI)	UNSAFE / UNRELIAB	HERO SUSCEPTIBLE	HERO ORDNANCE
PLRS	AS-3449	WHIP	4.0	420.0-450.0	100.0	AN/VSQ-1	108/33	27/8	BLE ORDNANCE
PORTABLE	N/A	WHIP	2.1	30.0-88.0	50.0	AN/PRC-119 (WITH AMP)	324/99	81/25	(feet/meters) (feet/meters)
PORTABLE	N/A	WHIP	2.1	30.0-88.0	4.5	AN/PRC-119	97/30	24/7	
TROOP CMDR	DIPOLE	DIPOLE	2.1	30.0-52.95	2.0	AN/PRC-77 (LOW BAND)	65/20	16/5	
TROOP CMDR	DIPOLE	DIPOLE	2.1	53.0-75.95	2.0	AN/PRC-77 (HIGH BAND)	65/20	16/5	
VHF	DIPOLE	DIPOLE	2.1	30.0-76.0	35.0	AN/VRC-43 (HIGH)	271/83	68/21	
VHF	DIPOLE	DIPOLE	2.1	30.0-76.0	10.0	AN/VRC-43 (LOW)	145/44	36/11	
VHF	DIPOLE	DIPOLE	2.1	30.0-76.0	10.0	AN/VRC-43 (LOW POWER)	145/44	36/11	

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Enclosure (6)

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er	Transm itter Max. Avg. Power (watts)	Transmitter Type		Transmitter	Transmitter
							Type	(feet/meters)	HERO UNSAFE/ UNRELIAB LE ORDNANCE (feet/meters)	HERO HERO SUSCEPTI BLE ORDNANCE (feet/meters)
VHF/UHF	BLADE	BLADE	2.1	30.0-88.0	15.0	AN/ARC-182(V) [FM (SINCGARS)]		178/54	44/14	
VHF/UHF	BLADE	BLADE	2.1	118.0-156.0	10.0	AN/ARC-182(V) (VHF-AM)		98/30	25/7	
VHF/UHF	BLADE	BLADE	2.1	156.0-174.0	15.0	AN/ARC-182(V) (VHF-FM)		91/28	23/7	
VHF/UHF	BLADE	BLADE	2.1	225.0-400.0	15.0	AN/ARC-182(V) (UHF-FM)		63/19	16/5	
VHF/UHF	BLADE	BLADE	2.1	225.0-400.0	10.0	AN/ARC-182(V) (UHF-AM)		51/16	13/4	
LCU										
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-89.0	50.0	AN/VRC-103(V)1 [AN/PRC- 117F(C)] (50-WATT AMPLIFER)	403/123	101/31		

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28 FEB 2013

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Power (watts)	Transmitter Type	Transm itter		Transmitter	Transmitter	Transmitter
								Max.	Avg.			
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-89.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS)	AN/VRC-103(V)1	180/55	45/14	HERO UNSAFE/ HERO UNRELIAB SUSCEPTI LE BLE ORDNANCE ORDNANCE	(feet/me ters)	(feet/me ters)
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	50.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (50-WATT AMPLIFIER)	AN/VRC-103(V)1	358/109	89/27			
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	20.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS AND SATCOM)	AN/VRC-103(V)1	226/69	57/17			

N/A = Not assigned

LCU (CONT.)

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Power (watts)	Transmitter Type	Transm itter		Transmitter Type	(feet/meters)	(feet/meters)
								Max.	Avg.			
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (AM LOS)	AN/VRC-103(V)1	160/49	40/12		HERO UNSAFE/ UNRELIAB LE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	50.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (50-WATT AMPLIFIER)	AN/VRC-103(V)1	80/25	20/6			
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS)	AN/VRC-103(V)1	36/11	10/3			
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	4.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (AM LOS)	AN/VRC-103(V)1	23/7	10/3			

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Enclosure (6)

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er Power (watts)	Transm itter Type	Transmitter	Transmitter	Transmitter
							Transmitter	Transmitter	Transmitter
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	50.0	AN/VRC-110 [AN/PRC-152(C)] (PEP)	403/123	101/31	
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	20.0	AN/VRC-110 [AN/PRC-152(C)] (20-WATT MODE)	255/78	64/19	
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	5.0	AN/VRC-110 [AN/PRC-152(C)] (5-WATT MODE)	128/39	32/10	
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-512.0	5.0	AN/VRC-110 [AN/PRC-152(C)] (LOS)	113/34	28/9	
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	225.0-400.0	50.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND HIGH)	143/44	36/11	

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	Transmitter	Transmitter	Transmitter
						Max.	Avg.	Type	Type
						HERO UNSAFE/ UNRELIAB	HERO SUSCEPTI LE	BLE ORDNANCE	ORDNANCE
1	SHAKESPEARE SFB3512/VRC	WHIP	4.0	225.0-400.0	20.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND LOW)	91/28	23/7	
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	50.0	AN/VRC-110 [AN/PRC-152(C)] (PEP)	403/123	101/31	
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	20.0	AN/VRC-110 [AN/PRC-152(C)] (20-WATT MODE)	255/78	64/19	
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-90.0	5.0	AN/VRC-110 [AN/PRC-152(C)] (5-WATT MODE)	128/39	32/10	
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-512.0	5.0	AN/VRC-110 [AN/PRC-152(C)] (LOS)	113/34	28/9	

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Enclosure (6)

								Separation Distances			
Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitt er Frequency (MHz)	Transm itter Max. Power (watts)	Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type
						Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type	Transmitter Type
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	225.0- 400.0	50.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND HIGH)	143/44	36/11			
2	SHAKESPEARE SFB3512/VRC	WHIP	4.0	225.0- 400.0	20.0	AN/VRC-110 [AN/PRC-152(C)] (SATCOM BAND LOW)	91/28	23/7			
2-1	N/A	WHIP	2.1	2-60.0	400.0	AN/PRC-150(C) (WITH RF-5834H- PA)	917/280	229/70			
2-1	N/A	WHIP	2.1	2-60.0	150.0	AN/PRC-150(C) (WITH RF- 5033PA)	561/171	140/43			
2-1	N/A	WHIP	2.1	2-60.0	20.0	AN/PRC-150(C)	205/63	51/16			
2-1	N/A	WHIP	2.1	2-60.0	5.0	AN/PRC-150(C)	103/31	26/8			
2-1	N/A	WHIP	2.1	2-60.0	1.0	AN/PRC-150(C)	46/14	11/3			

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Enclosure (6)

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Transm itter	Transmitter Type	(feet/me ters)	HERO UNSAFE / UNRELIAB LE ORDNANCE (feet/me ters)
						Max.			
2-1	SHAKESPEARE 120-49	WHIP	2.1	3.0-30	150.0	AN/VRC-104(V)3 [AN/PRC-150(C)] (150-WATT AMPLIFIER)	561/171	140/43	
2-1	SHAKESPEARE 120-49	WHIP	2.1	3.0-30	20.0	AN/VRC-104(V)3 [AN/PRC-150(C)] (W/O 150-WATT AMPLIFIER)	205/63	51/16	
2-3	N/A	WHIP	2.1	30.0-88.0	50.0	AN/SRC-54C	324/99	81/25	
2-4	AS-3191/A	BLADE	2.1	30.0-88.0	15.0	AN/ARC-182(V) [FM (SINCGARS)]	178/54	44/14	
2-4	AS-3191/A	BLADE	2.1	118.0-156.0	10.0	AN/ARC-182(V) (VHF-AM)	98/30	25/7	
2-4	AS-3191/A	BLADE	2.1	156.0-174.0	15.0	AN/ARC-182(V) (VHF-FM)	91/28	23/7	
2-4	AS-3191/A	BLADE	2.1	225.0-400.0	15.0	AN/ARC-182(V) (UHF-FM)	63/19	16/5	

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Enclosure (6)

## Separation Distances

N/A = Not assigned

**LCU (CONT.)**

2-5	N/A	WHIP	2.1	156.0- 158.0	25.0	ICOM IC-M125 (HIGH)	117/36	29/9
2-5	N/A	WHIP	2.1	156.0- 158.0	1.0	ICOM IC-M125 (LOW)	23/7	10/3
2-6	SHAKESPEARE 5202	WHIP	8.1	156.0- 158.0	25.0	ICOM IC-M80	234/71	58/18
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-89.0	50.0	AN/VRC-103(V)1 [AN/PRC- 117F(C)] (50-WATT AMPLIFIER)	403/123	101/31

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## Separation Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Antenn er Frequency (MHz)	Transmitt er Max. Power (watts)	Transmitter Type	Transm itter	HERO
							Avg.	UNSAFE/ UNRELIAB LE ORDNANCE
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30.0-89.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS)	180/55	45/14
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	50.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (50-WATT AMPLIFIER)	358/109	89/27
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	20.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS AND SATCOM)	226/69	57/17
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	90.0-399.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (AM LOS)	160/49	40/12

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Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Frequency (MHz)	Transmitt er	Power (watts)	Transm itter Max.	Separation Distances	
								Avg.	Transmitter Type
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	50.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (50-WATT AMPLIFIER)	80/25	20/6	HERO UNSAFE/ HERO UNRELIAB SUSCEPTI LE BLE ORDNANCE ORDNANCE
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (FM LOS)	36/11	10/3	
3	SHAKESPEARE SFB3512/VRC	WHIP	4.0	400.0-512.0	4.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (AM LOS)	23/7	10/3	
3-1	FURUNO 1832	55-CM HYBRID ARRAY	28.0	9380.0-9440.0	1.92	FURUNO 1832 (3, 4, 6, 8, 12, 24, 36 NM RANGE)	11/3	10/3	

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenn a Gain (dBi)	Transmitter Frequency (MHz)	Transmitt er	Transm itter Max. Avg. Power (watts)	Transmitter Type	Transm itter		Transmitter Type	(feet/meters)	(feet/meters)
								Max.	Avg.	Power (watts)	(feet/meters)	(feet/meters)
3-1	FURUNO 1832	55-CM HYBRID ARRAY	28.0	9380.0-9440.0	1.44	FURUNO 1832 (1.5, 2, 3 NM RANGE)					10/3	10/3
3-1	FURUNO 1832	55-CM HYBRID ARRAY	28.0	9380.0-9440.0	0.672	FURUNO 1832 (0.125, 0.25, 0.5, 1, 1.5 NM RANGE)					10/3	10/3
4	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30-60.0	150.0	AN/VRC-104(V) 3 [AN/PRC-150(C)] (150-WATT AMPLIFIER)					699/213	175/53
4	SHAKESPEARE SFB3512/VRC	WHIP	4.0	30-60.0	20.0	AN/VRC-104(V) 3 [AN/PRC-150(C)] (W/O 150-WATT AMPLIFIER)					255/78	64/19
N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-90A					324/99	81/25
N/A	DIPOLE	DIPOLE	2.1	30.0-88.0	50.0	AN/VRC-89A					324/99	81/25

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Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.	Transm	itter	Max.
						Transmitt	Avg.	Power	Transmitter Type	Type	(feet/meters)	ORDNANCE	ORDNANCE	(feet/meters)	ORDNANCE	ORDNANCE	(feet/meters)	ORDNANCE	(feet/meters)	ORDNANCE
N/A	AS-3449	WHIP	4.0	420.0-450.0	100.0	AN/KSQ-1					108/33	HERO	UNSAFE/	HERO						
N/A	SHAKESPEARE GALAXY STYLE 5225-XT	WHIP	8.1	156.0-158.0	20.0	ICOM IC-M504					209/64	UNRELIAB	SUSCEPTI	LE BLE						
N/A	SHAKESPEARE GALAXY STYLE 5225-XT	WHIP	8.1	156.0-158.0	1.0	ICOM IC-M504					47/14	ORDNANCE	ORDNANCE	(feet/meters)	(feet/meters)	(feet/meters)	(feet/meters)	(feet/meters)	(feet/meters)	
N/A	TRIVECT AVANT OMNIDIRECTI AV 2086 ONAL ANTENNA		6.0	225-399.0	50.0	AN/VRC-103(V)1 [AN/PRC- 117F(C)] (50-WATT AMPLIFIER)					180/55	45/14								
N/A	TRIVECT AVANT OMNIDIRECTI AV 2086 ONAL ANTENNA		6.0	225-399.0	20.0	AN/VRC-103(V)1 [AN/PRC- 117F(C)] (FM LOS AND SATCOM)					114/35	28/9								

Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transm	itter	Max.	Transmitter	Transmitter	Transmitter	Transmitter
						Transmitt	Avg.	Power	Type	Type	Type	Type
N/A	TRIVEC AVANT AV 2086	OMNIDIRECTI ONAL ANTENNA	6.0	225-399.0	10.0	AN/VRC-103(V)1 [AN/PRC-117F(C)] (AM LOS)			81/25		20/6	
N/A	FURUNO 1834C (RSB-0071-057)	PRINTED WAVEGUIDE ARRAY	24.0	9380.0-9440.0	1.92	FURUNO 1834C (NAVNET VX2) [(3 TO 64 NM)]			10/3		10/3	

N/A = Not assigned

LCU (CONT.)									
N/A	FURUNO 1834C (RSB-0071-057)	PRINTED WAVEGUIDE ARRAY	24.0	9380.0-9440.0	1.44	FURUNO 1834C (NAVNET VX2) [(1.5 TO 3 NM)]		10/3	10/3
N/A	FURUNO 1834C (RSB-0071-057)	PRINTED WAVEGUIDE ARRAY	24.0	9380.0-9440.0	0.672	FURUNO 1834C (NAVNET VX2) [(0.125 TO 1.5 NM)]		10/3	10/3

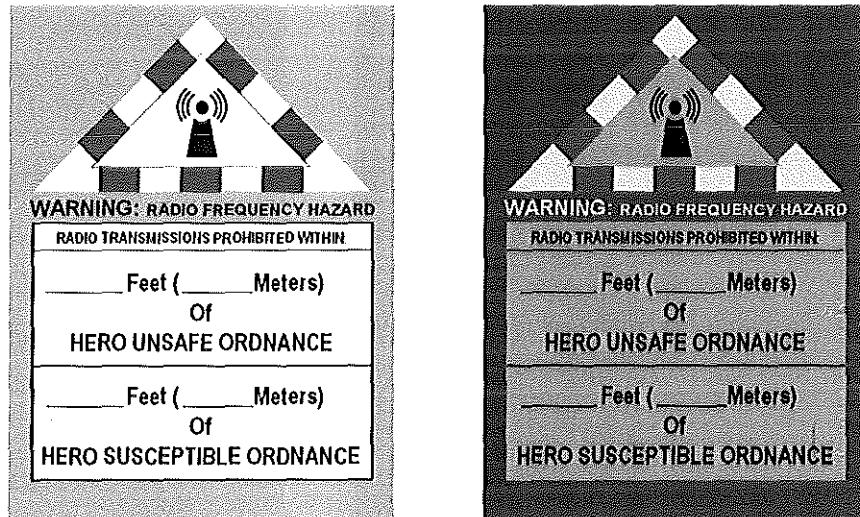
Separation  
Distances

Antenna Location	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	Transmitter Separation Distances		
							Max.	Min.	
PORTABLE	AT-271A/PRC	WHIP	2.1	30.0- 52.95	2.0	AN/PRC-77 (LOW BAND)	65/20	16/5	
76	PORTABLE	AT-271A/PRC	WHIP	2.1	53.0- 75.95	2.0	AN/PRC-77 (HIGH BAND)	65/20	16/5

N/A = Not assigned

HERO Warning Label and Warning Symbol

The HERO warning label shown below (white and olive drab versions) is to be affixed to mobile and portable emitter systems such as radios and cellular phones. This warning label alerts the emitter operator to a potential hazard if the emitter is operated within the prescribed distance of ordnance operations.



**HERO WARNING LABEL**

The label has blank spaces for inserting HERO UNSAFE/UNRELIABLE ORDNANCE and HERO SUSCEPTIBLE ORDNANCE safe separation distances. The distances are obtained from enclosure (6) of this Order for individual mobile or portable emitter systems.

The HERO warning label shown below (white and olive drab versions) is for emitters that meet the zero distance exception of reference (b). In accordance with reference (b), all emitter systems used in the vicinity of ordnance require that a HERO warning label be affixed to the device.

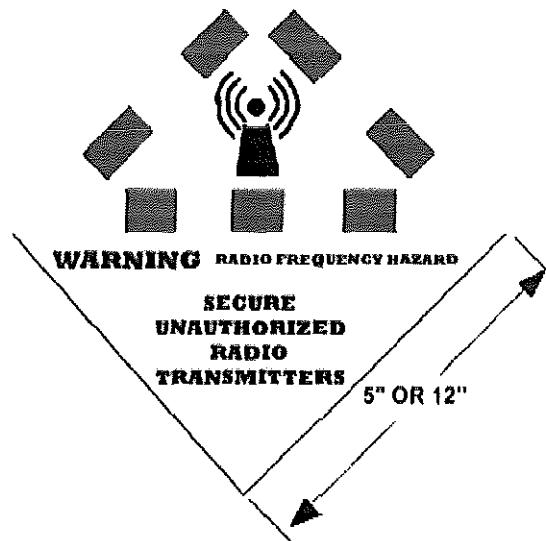


HERO WARNING LABEL

HERO warning labels may be downloaded from the Naval Ordnance Safety and Security Activity's web-site at [www.nossa.navsea.navy.mil](http://www.nossa.navsea.navy.mil) and generated by the user with word processing software.

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The recommended HERO warning symbol is shown below. This symbol is placed at entry points to ordnance operations areas (e.g., missile assembly, ammunition pier, etc.) to alert operators of mobile and portable emitter systems such as radios and cellular phones to a potential hazard when using radios and cellular phones past this point. Guidance for manufacturing symbols is provided below.



HERO WARNING SYMBOL

Materials: Anodized aluminum, adhesive backing optional.

Colors: Base material of anodized silver background; black anodized messages in bottom triangle: alternating colored blocks of anodized red and yellow in a border surrounding black anodized logogram in top triangle.

Logogram: Design will be a pictorial presentation of a radar antenna consisting of a pylon with a dot simulating an antenna and concentric area simulating pulsed energy.

Wording: The title, WARNING: RADIO FREQUENCY HAZARD, is standard for all symbols; the messages in the lower triangle will vary according to particular situation; use of descriptive wording or warning information is the user's option.

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MCB CAMP LEJEUNE Call List for HERO EMCON

Explosive Safety Officer . . . . .	910-451-6280
ASP OIC (Hero Officer) . . . . .	910-451-4731
ASP Duty Tech . . . . .	910-451-2949
II Marine Expeditionary Force (MEF) G-4 Ammo. . . . .	910-451-8898
2D Marine Division (MARDIV) G-4 Ammo . . . . .	910-451-8378
2D Marine Logistics Group (MLG) G-4 Ammo . . . . .	910-451-7505
U.S. Marine Corps Forces, Special Operations Command (MARSOC) G-4 Ammo . . . . .	910-440-0715
MARSOC G-6. . . . .	910-440-0892
Fire Department . . . . .	910-451-5815
Range Control (RCO) . . . . .	910-451-1240
Blackburn (RCO) . . . . .	910-451-3064
2D MARDIV Frequency Manager . . . . .	910-451-7332
II MEF Frequency Manager. . . . .	910-451-2414
MCIEAST-MCB CAMLEJ G-6. . . . .	910-451-8007

COMMAND DUTY OFFICERS

II MEF. . . . .	910-451-8138
2D MARDIV . . . . .	910-451-8319
2D MLG . . . . .	910-451-0850
MCIEAST-MCB CAMLEJ. . . . .	910-451-2414
MARSOC. . . . .	910-440-0938