



DEPARTMENT OF THE NAVY

COMMANDING OFFICER
NAVAL BASE SAN DIEGO
3455 SENN ROAD
SAN DIEGO, CALIFORNIA 92136-5084

NAVBASESANDIEGOINST 8023.8A

N43

OCT 26 2010

NAVBASE SAN DIEGO INSTRUCTION 8023.8A

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

Ref: (a) HERO Assessment of Naval Base San Diego (NBSD)
February 2009
(b) NAVSEA OP 3565/ NAVAIR 16-1-529, Volume 2
(c) NAVSEA OP 3565/NAVAIR 16-1-5929, Volume 3
(d) NAVFAC 11010.45

Encl: (1) General HERO Requirements
(2) Ordnance Listing
(3) Base Drawings
(4) HERO Summary
(5) HERO EMCON Procedures
(6) Antenna and Transmitter Systems
(7) HERO Warning Label
(8) Base Call List for HERO EMCON

1. Purpose. To promulgate policy and procedures for safe handling, transportation, and stowage of ordnance with regard to HERO. The information contained in enclosures (1) through (8) is provided in reference (a), the current HERO assessment report for this facility. The general HERO precautions are listed in enclosure (1). Enclosure (2) addresses the facility's ordnance. Enclosure (3) contains a base drawing. This drawing shows 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 separations distances for the antenna/transmitter systems. Enclosure (7) illustrates the recommended HERO label. Through the use of enclosure (8) the Command Duty Officer (CDO), upon notification, will set the appropriate HERO EMCON Condition to ensure that electromagnetic environments (EMEs) do not exceed acceptable levels.

2. Cancellation. NAVBASESANDIEGOINST 8023.8.

OCT 26 2010

3. Scope. This instruction is applicable anytime ordnance operations are conducted onboard NBSD.

4. General Discussion. As described in references (b) and (c) electromagnetic radiation (EMR) hazards stem from the functional characteristics of electrically initiated ordnance, and is a result of absorption of electromagnetic energy by the firing circuitry of electrically initiated devices (EIDs). The induced energy can cause heating of the bridge wire and primary explosive, and 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 (EMEs) during assembly, disassembly, handling, loading, and unloading. There are three classifications pertinent to HERO: HERO SAFE ORDNANCE, HERO SUSCEPTIBLE ORDNANCE, and HERO UNSAFE ORDNANCE. Therefore, HERO emission control (EMCON) and 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 (b), or through a HERO survey. 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 Appendix A 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.

5. HERO Restrictions. HERO restrictions will not normally be granted from 0800-1100 on Mondays (0800-1100 on Tuesday if Monday is a holiday) since HERO restrictions would interfere with the Monday (Tuesday) morning sortie. HERO restrictions will likewise not normally be granted during the weekly communications drill and EWEX-8 (Z-11-EW) 0800-1600 on Thursdays.

OCT 26 2010

6. Automatic HERO Restrictions. Unless otherwise directed by SOPA ADMIN/SOPA San Diego, HERO restrictions will be automatically in effect to allow handling of HERO-susceptibility weapons only in the San Diego Bay south of the San Diego/Coronado Bay Bridge and at NAS North Island berths during the below time periods.

Monday 1100-1700 (except official holidays).

Tuesday 0800-1700 (except when Monday is an official holiday, then it is 1100-1700).

Wednesday 0800-1100

7. Action. This instruction shall be disseminated to all personnel/departments impacted by HERO EMCON. This includes personnel/departments that handle ordnance, operate transmitter systems, or are responsible for overseeing the safe execution of ordnance operations.

8. Responsibilities

a. Commanding Officers (COs)/Officers-in-Charge and Department Heads/Special Staff Assistants:

(1) Ensure that all operators of antenna/transmitter systems comply with this instruction.

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

(3) Notify the Explosive Safety Officer (ESO), prior to installing and using new radiating electronic equipment.

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

b. Explosives Safety Officer: The ESO is the central point-of-contact (POC) for determination of compliance with the appropriate references as it relates to all forms of ordnance handled at this base. The ESO will act as the HERO Officer.

OCT 26 2010

(1) Ensure that all ordnance personnel are familiar with HERO restrictions applicable to ordnance operations.

(2) Inform all personnel impacted upon receipt of ordnance items that are categorized as HERO SUSCEPTIBLE or HERO UNSAFE ORDNANCE so the HERO issues can be mitigated to ensure both safety and reliability.

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

(4) Prior to starting an ordnance operation involving a ship, verify the requesting activity is in compliance with the shipboard EMCON Bill.

c. Security Department. Shall be responsible for notifying base personnel and visitors who have mobile transmitters, not including cell phones, in their personal vehicles that transmission onboard the Base will be permitted only with the written permission of the CO.

d. Fire Department. In the event of an ordnance accident or incident, shall act as on-scene commander until such time as the situation has been resolved [i.e., Explosive Ordnance Disposal (EOD) responds and the item is rendered safe, or the item is determined safe to transport].

e. Tenant commands and activities.

(1) Shall be responsible for notifying the ESO of any operation involving HERO SUSCEPTIBLE ORDNANCE or HERO UNSAFE ORDNANCE that would require the setting of a HERO Condition.

OCT 26 2010

(2) Shall be responsible for ensuring HERO UNSAFE ORDNANCE is completely enclosed in sealed, all-metal containers during storage and during transfer between designated safe areas.

(3) Activities requesting to set HERO are responsible for notifying all appropriate personnel listed in Encl (8).

9. Requirements. To ensure ordnance safety, precautions must be taken to limit EMEs 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, or transported within the confines of the Base, emissions from various mobile and portable antenna/transmitter systems should be silenced or the HERO UNSAFE and HERO SUSCEPTIBLE ORDNANCE safe separation distances provided in enclosure (6) should be maintained.

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

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

d. The CDO will be responsible for notifying the appropriate personnel 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 ESO.

e. 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) or Appendix D of reference (b).

OCT 26 2010

f. Privately owned radios shall not be operated in any restricted area or in other parts of the Base while in sight of a vehicle that exhibits an explosive placard.

10. Procedures

a. The following general procedures apply for implementing HERO EMCON:

(1) The ESO, CDO and Emergency Operation Center will be notified 24 hours prior to routine implementation of a HERO Condition by the requesting activity. The commencement time and automatic expiration time will require a minimum of 30 minutes notice by the using activity.

(2) The ESO or CDO will contact all activities impacted by HERO (e.g., Baseary 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 ORDNANCE Condition [defined in enclosures (4) and (5)] will be set by the ESO or CDO and will remain in effect until EOD personnel have completed a Render Safe Procedure (RSP) or determined that EMCON is no longer required (i.e., the ordnance is safe to transport).

(4) The ESO or CDO will notify all ordnance accident response units to maintain a minimum separation distance of 150 feet from the accident site when 3 VHF mobile radios are in use, and 50 feet when 3 portable radios are in use.

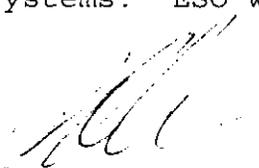
b. Emergency Condition.

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

OCT 26 2010

(2) In the event of an emergency condition, suspect ordnance will be classified as HERO UNSAFE ORDNANCE and the appropriate HERO Condition for the affected zone will be set in accordance with enclosures (4) and (5).

(3) 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. ESO will report all conditions normal to EOC.



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OCT 26 2010

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 NAVSEA OP 3565/ NAVAIR 16-1-529.

a. Ordnance evolutions must be planned so that 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-shortening caps.

d. Ordnance will not be assembled/disassembled at NBSD.

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

3. When transporting HERO SUSCEPTIBLE ORDNANCE, comply with the ordnance handling requirements listed in Chapter 7 of reference (b).

4. Ensure ships berthed at the base silence all shipboard emitters whenever ordnance operations occur within the HERO separation distances listed in their respective EMCON Bill report or Chapter 1 of reference (c).

5. Observe the HERO separation distances listed in enclosure (6) or Chapter 1 of reference (c) for cellular telephones and mobile and portable radios, and affix HERO warning labels stating separation distances for HERO UNSAFE and HERO SUSCEPTIBLE ORDNANCE to units.

6. Maintain control over the number, type, and placement of temporary emitter systems installed at base. The safe separation distances listed in Chapter 1 of reference (c) should be reviewed prior to installation and compared to ordnance locations in order to minimize HERO.

OCT 26 2010

7. Ensure that operators of privately owned amateur and citizens band radios and cellular telephones are familiar with HERO and safe separation distance requirements for mobile transmitters.

8. Ensure that radios installed in ordnance handling vehicles maintain the minimum 10-foot antenna-to-ordnance separation distance required for HERO SAFE ORDNANCE. [See Chapter 7, paragraph 7-3.1.16 of reference (b).]

9. Ensure that operators, handlers, and riggers transferring ordnance maintain a minimum safe separation distance of 33 feet (10 meters) from HERO UNSAFE ORDNANCE when using single portable radios operating in the 136-174 MHz frequency range and at a maximum output power of 2 watts. For the use of other single portable radios, refer to enclosure (6).

10. Prior to conducting geophysical surveys for unexploded ordnance (UXO) using equipment with electromagnetic transmitting detection/location (ground-penetrating radar, ground conductivity meters, etc.) systems, contact NOSSA, N84, for HERO safety guidance.

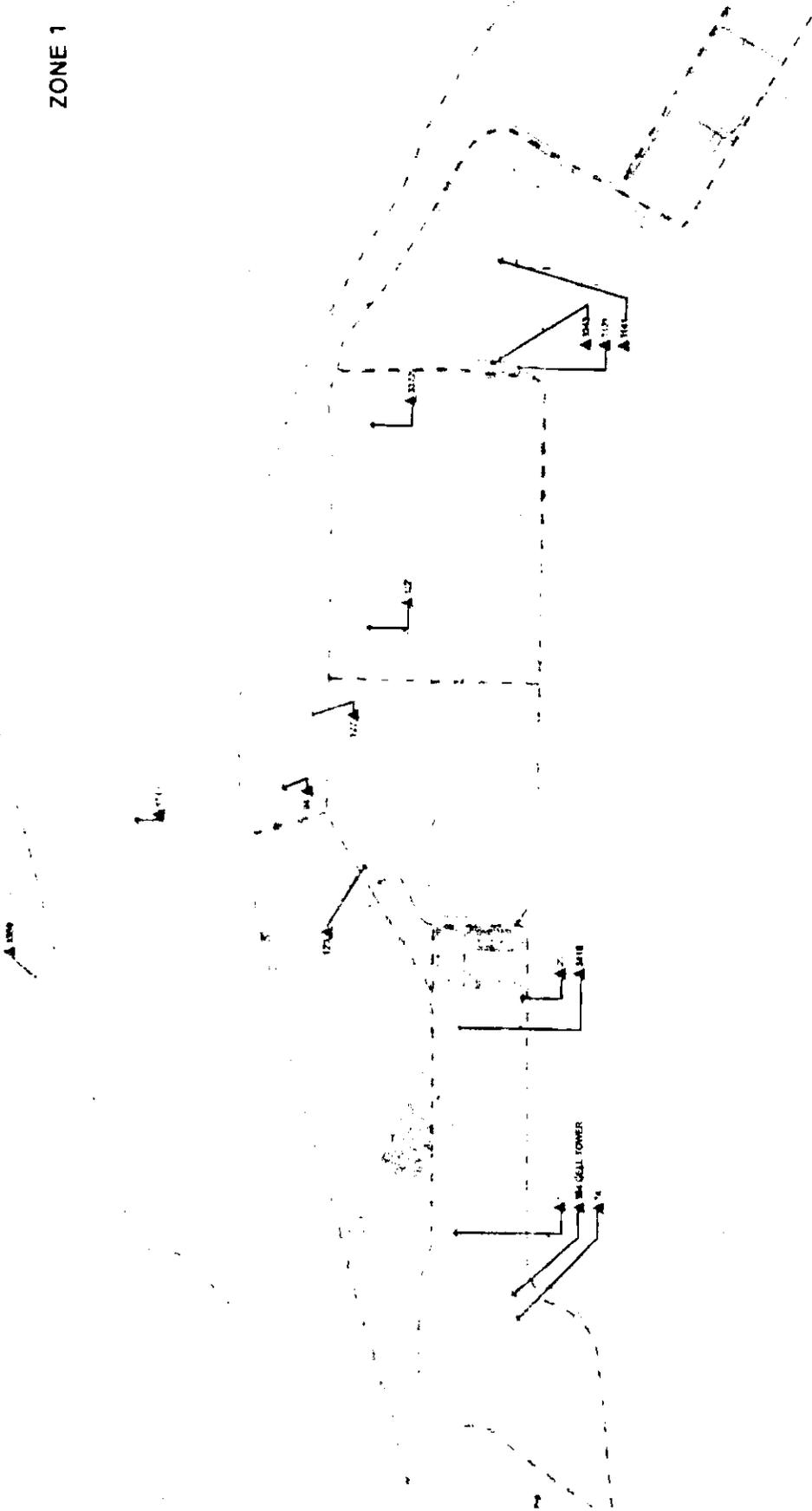
11. Any changes to the base's antenna/transmitter system or ordnance configurations are subject to the requirements cited in reference (c). This applies even if an activity moves from one site to another within the confines of the facility.

12. All new transmitters/antenna systems must be submitted for HERO review in accordance with reference (d).

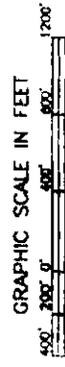
OCT 26 2010

DODIC	Nomenclature	HERO Class
AA12	CARTRIDGE, 9 MM, FX MARKING, RED NSN 1305-01-424-2410 P/N 5300432 NSN 1305-01-439-9717 P/N 5300432 (0T AND 2T COG)	No Requirement
A011	CARTRIDGE, 12 GA SHOTGUN, NO. 00 BUCKSHOT NSN 1305-00- 028-6642 P/N 7553929 AMMO CLASS X NSN 1305-01-386-2464 P/N 5355700 NSN 1305-01-232-8338 P/N 12551623	No Requirement
A017	CARTRIDGE, 12 GA SHOTGUN, NO.9 SHOT NSN 1305-01-232- 7415 P/N 12551626	No Requirement
A020	CARTRIDGE, 12 GA SHOTGUN, NO.4 AND 4B SPECIAL BUCKSHOT XM257 OR M257 NSN 1305-00-143-7007 P/N 10542446	No Requirement
A059	CARTRIDGE 5.56 MM, 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
A080	CARTRIDGE, 5.56 MM, BLANK, XM200 OR M200 SERIES, SINGLE ROUND NSN 1305-00-005-8005 P/N 7553296 NSN 1305-00-182-3217 P/N 7553347	No Requirement
A112	CARTRIDGE, 7.62 MM, 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
A130	CARTRIDGE, 7.62 MM, BALL M59 OR M80, F/RIFLE M14, 5 RD CLIP	No Requirement
A131	CARTRIDGE, 7.62 MM, 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
A363	CARTRIDGE, 9 MM BALL, M882 NSN 1305-01-467-5408 P/N 9345211	No Requirement
A403	CARTRIDGE, CAL .38, SPECIAL BLANK	No Requirement
L275	SIGNAL, SMOKE AND ILLUMINATION, MARINE, MK 13 MOD 0, DISTRESS, DAY AND NIGHT NSN 1370-00-115-3432	No Requirement
L283	SIGNAL, SMOKE AND ILLUMINATION, MARINE MK 124 MOD 0, DISTRESS, DAY AND NIGHT NSN 1370-01-030-8330 P/N 3139734 NSN 1370-01-144-3561 P/N 3139734	No Requirement
L564	SIGNAL KIT, ILLUMINATION MK 189 MOD 0 NSN 1370-01-418- 2657 P/N 7058017	No Requirement
MN76/MN77	CANINE EXPLOSIVE SCENT KIT	No Requirement

ZONE 1



ZONE 2



- LEGEND
 ZONE BOUNDARY
 ▲ TRANSMITTING ANTENNA LOCATION
 --- ORDNANCE TRANSPORTATION ROUTE
 - - - BUILDING OUTLINE

Enclosure (3)

OCT 26 2010

HERO SUMMARY

<u>NALC</u>	<u>General Applications</u>	<u>Situation/ Activity</u>	<u>Location</u>	<u>HERO CONDITION</u>
All	HERO SAFE ORDNANCE	Presence, handling, and loading	All locations	0
All	HERO UNSAFE ORDNANCE	Presence, handling, and loading	Zone 1 Zone 2	1 2
All	HERO SUSCEPTIBLE ORDNANCE	Presence, handling, and loading	Zone 1 Zone 2	3 4

HERO EMCON PROCEDURES

HERO 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 (b).

HERO CONDITION 1

This condition applies to HERO UNSAFE ORDNANCE in HERO zone 1.

- Observe the HERO UNSAFE ORDNANCE separation distances listed in enclosure (6) for mobile and portable transmitters.
- For an ordnance accident, emergency response units such as the Fire Department and Security responding to the scene with radio equipment must maintain a minimum separation distance of 150 feet from the accident site if using 3 VHF (132-174 MHz) mobile radios; similarly, a minimum separation distance of 50 feet must be maintained when using 3 VHF portable radios. Silence all other radios at the scene; for single radio use, apply the separation distances cited in enclosure (6) or Chapter 2 of reference (b) for that specific mobile or portable unit.

HERO CONDITION 2

This condition applies to HERO UNSAFE ORDNANCE in HERO zone 2.

- Notify shipboard personnel to set the appropriate shipboard HERO condition for general application of HERO UNSAFE ORDNANCE.
- Observe the HERO UNSAFE ORDNANCE separation distances listed in enclosure (6) for mobile and portable transmitters.
- For an ordnance accident, emergency response units such as the Fire Department and Security responding to the scene with radio equipment must maintain a minimum separation distance of 150 feet from the accident site if using 3 VHF (132-174 MHz) mobile radios; similarly, a minimum separation distance of

OCT 26 2010

50 feet must be maintained when using 3 VHF portable radios. Silence all other radios at the scene; for single radio use, apply the separation distances cited in enclosure (6) or Chapter 2 of reference (b) for that specific mobile or portable unit.

HERO CONDITION 3

This condition applies to HERO SUSCEPTIBLE ORDNANCE in HERO zone 1.

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

HERO CONDITION 4

This condition applies to HERO SUSCEPTIBLE ORDNANCE in HERO zone 2.

- Notify shipboard personnel to set the appropriate shipboard HERO condition for general application of HERO SUSCEPTIBLE ORDNANCE.
- Observe the HERO SUSCEPTIBLE ORDNANCE separation distances listed in enclosure (6) for mobile and portable transmitters.

ANTENNA AND TRANSMITTER SYSTEMS

Building Number	Antenna Nomenclature	Antenna Type	Antenna Gain (dB)	Transmitter Frequency (MHz)	Transmitter Max. Avg. Power (watts)	Transmitter Type	Separation Distances	
							HERO UNSAFE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
20	DB 222E	FOLDED DIPOLE	8.1	136-174	45	MOTO MAXTRAC	360/110	90/27
52	NA	1/4 WAVE WHIP	2.1	450-512	40	MOTO SPECTRA	51/16	13/4
74	NA	17' WHIPS	6	136-174	25	MOTO ASTRO	211/64	53/16
88	DB 222	FOLDED DIPOLE	8.1	146-174	25	MOTO ASTRO	250/76	62/19
94	AS-3194/SPS	SLOTTED ARRAY	28	9345-9405	54	AN/SPS-64 (V) 9	57/17	14/4
94	AS-4473	SLOTTED ARRAY	31	9380-9440	18	AN/SPS-73	46/14	12/4
94	OE-374/SPS-67 (V)	PARABOLIC	30	5450-5825	306	AN/SPS-67 (V) 1	292/89	73/22
94	AS-177B	STUB	2.1	1025-1150	316	AN/URM-507B	63/19	16/5
150	NA	17' WHIPS	6	136-174	25	MOTO ASTRO	211/64	53/16
150	NA	FOLDED DIPOLE	6	136-174	25	MOTO ASTRO	211/64	53/16
150	NA	17' WHIPS	6	156-158	40	STANDARD GX3000	232/71	58/18
322	NA	FOLDED DIPOLE	5	430-470	100	MOTO C74CX	119/36	30/9
297, 384 (CELL TOWERS)	EMS 65-12	FLAT PANEL	11.9	851-866	70	MOTO CELL	111/34	28/8
3141	NA	INVERTED D-V	2.1	1.8-30	100	ICOM IC 746 PRO	458/140	115/35
3141	NA	35-FOOT WHIP	2.1	1.8-30	100	ICOM IC 746 PRO	458/140	115/35
3141	NA	WHIP	2.1	50-54	100	ICOM IC 746 PRO	458/140	115/35
3141	NA	WHIP	2.1	144-148	100	ICOM IC 746 PRO	254/77	63/19
3141	NA	35-FOOT	2.1	1.6-	100	RT 7000	458/140	115/35

Building Number	Antenna Nomenclature	Antenna Type	Antenna Gain (dB)	Transmitter Frequency (MHz)	Transmitter Max. Avg. Power (watts)	Transmitter Type	Separation Distances	
							HERO UNSAFE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
3143	AS-936B/SPS	WHIP PARABOLIC	30	30	5450-5825	306 AN/SPS-67	292/89	73/22
3143	AS-2953	SLOTTED WAVEGUIDE	31	9050-10000	97.5	AN/SPS-55	111/34	28/8
3143	NA	PARABOLIC	20.6	1635-1645	40	INMARSAT	119/36	30/9
3143	AS-3240	DIPOLE	6	962-1215	120	AN/URN-25	65/20	16/5
3143	NA	BIFILAR HELICAL	12.5	291-318	100	AN/USC-62	416/127	104/32
3222	NA	FOLDED DIPOLE	5	403-512	2	TEKLOGIX 9140 GATEWAY	18/5	10/3
3281	AS-2367A/SPQ	PARABOLIC	37.5	8500-10700	76.8	AN/SPQ-9A	222/68	56/17
3281	MK 53 MOD 1	PARABOLIC	35	8500-9400	1000	MK 92 CAS	190/58	48/14
3281	MK 39 MOD 0	PARABOLIC	41.5	8500-10700	825	AN/SPG-60	1154/352	288/88
3321	NA	1/4 WAVE GROUND PLANE	2.1	136-174	25	MOTO ASTRO	135/41	34/10
3321	NA	WHIP	2.1	136-174	25	MOTO ASTRO	135/41	34/10
3343	NA	WHIP	2.1	136-174	50	KENWOOD TK760G	190/58	48/14
284	DECIBEL DB224	4 FOLDED DIPOLES	8.1	380-494	110	TS5365/X640	201/61	50/15
3203	DECIBEL DB224	4 FOLDED DIPOLES	8.1	403-470	25	T5365-X240	91/28	23/7
284	DECIBEL	4 FOLDED DIPOLES	8.1	494-520	100	T5365-X640	148/45	37/11
3418	NA	FOLDED	6	136-	50	RADIUS	298/91	74/23

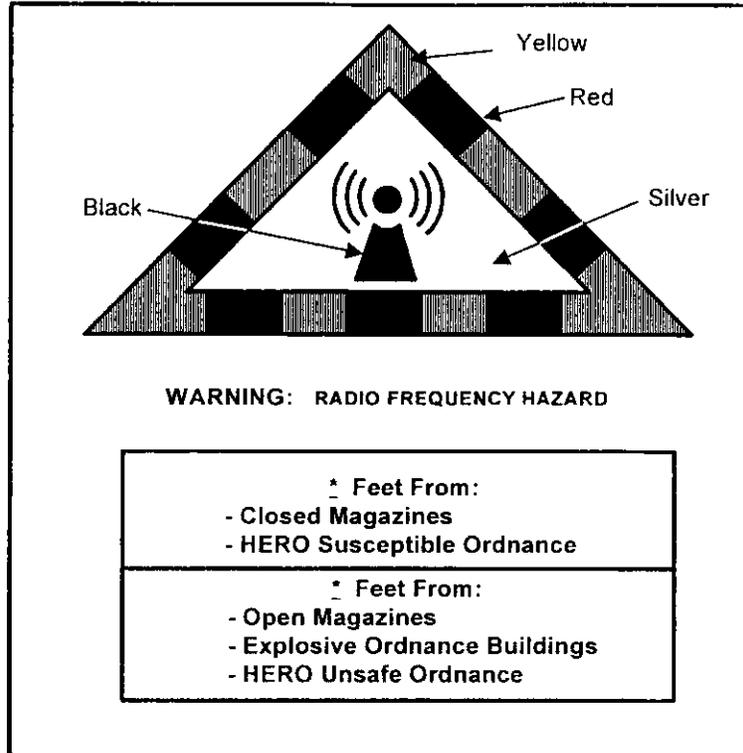
Building Number	Antenna Nomenclature	Antenna Type	Antenna Gain (dB)	Transmitter Frequency (MHz)	Transmitter Max. Avg. Power (watts)	Transmitter Type	Separation Distances	
							HERO UNSAFE ORDNANCE (feet/meters)	HERO SUSCEPTIBLE ORDNANCE (feet/meters)
		DIPOLE		174		GR1225		
MOBILES AND PORTABLES								
HANDHELD	NA	STUB	0.9	136-174	5	MOTO HT1250	52/16	13/4
HANDHELD	NA	STUB	0.9	136-174	5	MOTO XTS 3000	52/16	13/4
HANDHELD	NA	STUB	0.9	806-824	3	MOTO XTS 3000	10/3	10/3
HANDHELD	NA	STUB	0.9	851-870	3	MOTO XTS 3000	10/3	10/3
HANDHELD	NA	STUB	0.9	136-174	5	MOTO MTS 2000	52/16	13/4
HANDHELD	NA	STUB	0.9	136-174	5	MOTO XTS 3000R	52/16	13/4
HANDHELD	NA	STUB	0.9	136-174	5	MOTO HT1000	52/16	13/4
HANDHELD	NA	STUB	0.9	136-174	5	MOTO ASTRO	52/16	13/4
MOBILES AND PORTABLES (CONT.)								
HANDHELD	NA	STUB	0.9	403-512	2	TEKLOGIX 7030 SCANNER	11/3	10/3
MOBILE	NA	1/4 WAVE WHIP	2.1	136-174	25	MOTO SPECTRAL	135/41	34/34

N/A = Not assigned

OCT 26 2010

HERO WARNING LABEL

The HERO warning label shown below is to be affixed to mobile and portable communications radios. This warning label alerts a radio operator to a potential hazard if the radio is operated within the prescribed distance of ordnance operations.



HERO SUSCEPTIBLE or HERO UNSAFE separation distances in feet can be obtained from enclosure (6) of this instruction for individual radios. The smaller label is recommended for hand-held portable radios and the larger for mobiles.

HERO WARNING LABEL INFORMATION*

NAVSEA FORM	STOCK NUMBER	SIZE	DESCRIPTION
NAVSEA 5104/3	0116-LF-115-0700	2" x 2 ² / ₃ "	RADHAZ Warning Label (Blank) Feet
NAVSEA 5104/4	0116-LF-115-0800	1 ¹ / ₂ " x 2 ¹ / ₃ "	RADHAZ Warning Label (Blank) Feet

OCT 26 2010

BASE CALL LIST FOR HERO EMCON

1. Background: The Base Call List is a tool used for setting HERO conditions 1 through 4 by ensuring all transmitter custodians in HERO Zones 1, and 2 on board Naval Base San Diego are properly contacted and the appropriate transmitters are silenced while HERO UNSAFE ORDNANCE or HERO SUSCEPTIBLE ORDNANCE are being handled, or transported within the confines of the base.

2. Setting HERO Conditions 1, 2, 3 and 4

a. The activity requiring a HERO Condition be set must first contact the NBSD ESO or CDO.

b. The ESO/CDO shall then notify the following personnel as required:

HERO Condition	HERO Zone	Contact Person	Contact Number	Responsibility
All	1, 2	CDO	Cell: 247-8897	Notifies activities effected after normal duty hours
All	1, 2	Security	556-1808	Notify personnel entering a HERO Zone of the Radio/Transmitter restrictions
All,	1, 2	Explosive Safety Officer	556-5700 Cell: (619)778-4876	Notifies activities effected during normal duty hours

Contact	Office Number	Mobile Number
OOD/CDO	619-556-1246	619-247-8897
Explosives Safety	619-556-5700	619-778-4876
Port Operations	619-556-3147	
Security Dispatch	619-524-6999	
Command EOC	619-556-7615	
NBSD Force Protection	619-556-1808	

OCT 26 2010

Number of Radios	Minimum separation distance from the accident site	Mobile Radio	Portable Radio
3 or more	150 ft	VHF (132-174 MHz)	
3 or more	50 ft		VHF
1	See Ref (b), Chapter 2 for the specific mobile or portable radio separation distance.	VHF (132-174 MHz)	VHF