



UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
PSC BOX 8003
CHERRY POINT, NORTH CAROLINA 28533-0003

AirStaO P8020.1C
JSO
5 Dec 94

AIR STATION ORDER P8020.1C *w ch 1, 2*

From: Commanding General
To: Distribution List

Subj: ORDNANCE SAFETY PRECAUTIONS FOR MCAS CHERRY POINT
(SHORT TITLE: ORDNANCE SAFETY PRECAUTIONS)

Ref: (a) NAVSEA OP 5, Volume 1 (NOTAL)
(b) NAVSEA OP 3347 (NOTAL)
(c) NAVSEA OP 2239 (NOTAL)
(d) NAVSEA OP 2165, Volume 1 (NOTAL)
(e) NAVSEA OP 2173, Volumes 1 and 2 (NOTAL)
(f) NAVSEA SW020-AC-SAF-SERIES (NOTAL)
(g) OPNAVINST 8023.2C
(h) ~~MCO 8623.2A~~ MCO 8023.3
(i) OPNAVINST 5102.1C
(j) ~~OPNAVINST 8600.2A~~ OPNAVINST 8600.3
(k) SECNAVINST 5500.4G
(l) OPNAVINST 11320.25B
(m) OPNAVINST 5530.13A B
(n) NA-00-80T-103
(o) ASO 8020.2A
(p) NAVSEA OP 3565
(q) MILHDBK 274
(r) ~~NAVSEA OP 4098~~ NAVSEA SW023-AH-WHM-010
(s) ASO 5100.19
(t) OPNAVINST 3100.6F (NOTAL)
(u) MCO 3571.2F
(v) NAVAIR 00-80R-14
(w) ASO P3710.5E
(x) ~~ASO P5720.1B~~ ASO 3710.5F
(y) MCO P5102.1

Encl: (1) LOCATOR SHEET

1. Purpose. To publish explosive safety regulations and emphasize ordnance safety precautions observed aboard this station as per instructions contained in references (a) through (y).

2. Cancellation. AirStaO P8020.1B.

3. Summary of Revision. This manual has been reformatted and contains major and administrative changes. The major modifications to this Manual are as follows:

- a. References. Expanded not only on NAVSEA OP regulations but included OPNAVINST, MCO, SECNAVINST, ASO, MILHDBK, NAVAIR and NATOPS regulations.
- b. Chapters 1 through 17. Included special instructions and guidelines for various ordnance operations.
- c. Chapter 18. Included a Disaster Plan for explosive operations to be utilized with Appendixes A, B and C.

4. Action. Explosive safety regulations and ordnance safety precautions are general in context unless supplemented by special instructions issued for a specific ordnance item. This Order applies to and will be strictly complied with by all personnel concerned with the handling, storage and transportation of explosive ordnance/material aboard this station. The Explosive Safety Officer will monitor ordnance evolutions to ensure compliance. Nothing in this Order is to be construed as altering or superseding safety regulations issued by higher authority.

5. Information. The purpose of the Explosive Safety Program is to ensure reasonable safety and enhance operational readiness by reducing the possibility of injury, loss of life and property damage. Failure to adhere to safe operating practices and procedures is directly linked to personnel misunderstanding basic explosive accident prevention. The goal of having better educated personnel can only be attained through an effective Explosives Safety Training Program at each level of Command. In an effort to attain this goal aboard MCAS Cherry Point, the Department of Safety and Standardization has established a positive Explosive Safety Inspection Program that will monitor program compliance, and assist in educating those Commands not complying with established safe practices or procedures.

6. Concurrence. The Commanding General, 2d Marine Aircraft Wing, the Commanding Officers, Naval Aviation Depot, Combat Service Support Detachment-21 and the Property Disposal Officer of the Defense Reutilization and Marketing Office concur with the contents of this Order insofar as it pertains to members of their commands.


D. A. JONES
Chief of Staff

DISTRIBUTION: A-2 plus SUO (3) and JSO (2)



UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
PSC BOX 8003
CHERRY POINT, NORTH CAROLINA 28533-0003

AirStaO P8020.1C Ch 1
JSO
15 Feb 95

AIR STATION ORDER P8020.1C CH 1

From: Commanding General
To: Distribution List

Subj: ORDNANCE SAFETY PRECAUTIONS FOR MCAS CHERRY POINT
(SHORT TITLE: ORDNANCE SAFETY PRECAUTIONS)

Encl: (1) New page insert to AirStaO P8020.1C

1. Purpose. To transmit a new page insert to the basic Manual.
2. Action. Replace page 12-3 of the basic Manual with the page in the enclosure.
3. Summary of Changes
 - a. Paragraph 2 of page 12-3 provides clarification for aircraft to be grounded at all times unless under the pilot's control.
 - b. Paragraph 8 of page 12-3 assures that ordnance will not remain on or in aircraft overnight.
4. Filing Instruction. File this Change transmittal immediately behind the signature page of the basic Manual.


W. W. SCHEFFLER
Chief of Staff

DISTRIBUTION: A-2 plus SUO (3) and JSO (2)



UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA 28533.5001

AirStaO P8020.1C Ch 2
JSO
10 JUN 1997

AIR STATION ORDER P8020.1C Ch 2

From: Commanding General
To: Distribution List

Subj: ORDNANCE SAFETY PRECAUTIONS FOR MCAS CHERRY POINT (SHORT
TITLE: ORDNANCE SAFETY PRECAUTIONS)

1. Purpose. To direct pen changes to the basic Manual.

2. Action

a. Change titles in the "Ref:" section to read:

- "(h) MCO 8023.3
- (j) OPNAVINST 8600.3
- (m) OPNAVINST 5530.13B
- (r) NAVSEA SW023-AH-WHM-010
- (w) ASO 3710.5F"

b. On page 3-4 paragraph 3000.22 change "Naval Ordnance Center or Fleet Technical Support Center Atlantic" to read "Naval Ordnance Center Atlantic Division."

c. On page 4-3 paragraph 4000.10 change "MK/106" to read "BDU-48."

d. On page 6-3 paragraph 6000 add the following subparagraphs:

"10. Decoy flares protruding from ALE-29 Dispenser will not be touched. Contact Explosive Ordnance Disposal (EOD) at extension 2801 for proper disposal."

"11. Decoy flares with exposed flare grain will not be handled. Contact EOD at extension 2801 for proper disposal."

"12. Decoy flares NALC 2W11 and MJU-27/B contain pyrophoric metal which is spontaneously combustible when exposed to air. Extreme caution should be exercised when removing them

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10 JUN 1997

from container or dispenser. Pyrophoric metal will glow dull to bright red when exposed to air."

e. On page 12-3, paragraph 12000.10 change "MK-106" to read "BDU-48."

3. Filing Instructions. This change transmittal will be filed immediately following the signature page of Change 2 of the basic Manual.



M. W. FORBUSH
Chief of Staff

DISTRIBUTION: A plus SUO (3) and JSO (2)

LOCATOR SHEET

Subj: ORDNANCE SAFETY PRECAUTIONS

Location: _____
(Indicate the location(s) of the copy(ies) of this Manual.)

ORDNANCE SAFETY PRECAUTIONS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 1

RESPONSIBILITIES

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 1

RESPONSIBILITIES

1000. COMMANDING GENERAL

1. Has the sole responsibility for explosive safety aboard MCAS Cherry Point.
2. Shall ensure that a comprehensive Explosive Safety Program is implemented and monitored.

1001. SAFETY AND OCCUPATIONAL HEALTH MANAGER

1. Shall advise the Commanding General, MCAS Cherry Point, in all matters relating to explosive safety.
2. Shall implement and manage the Explosive Safety Program.

1002. EXPLOSIVE SAFETY OFFICER. **An** Explosive Safety Officer shall manage the Explosives Safety Program and be assigned to the Safety and Standardization Department of MCAS Cherry Point. Responsibilities shall consist of, but not be limited to the following:

1. Be an advisor to the Safety and Occupational Health Manager on all matters pertaining to explosive safety.
2. Maintain a Technical Publications Library as a reference center on explosive safety for MCAS Cherry Point.
3. Conduct explosive safety inspections aboard the Air Station (to include all armories and Ready Service Magazines).
4. Monitor all ammunition/ordnance operations aboard the Air Station.
5. Issue an Explosive Safety Deficiency Report to the unit's Commanding Officer for explosive safety deficiencies and violations.
6. Work with and assist all Ordnance Officers and personnel in all matters pertaining to Ordnance Safety.
7. Assign loading/downloading spots for the Combat Aircraft Loading Area (CALA) for explosive evolutions by tenant and transient units.
8. Assist in developing safety training for supervisory, non-supervisory personnel and special operational needs to ensure that safety objectives are attained.

9. Organize, plan and execute any Explosive Safety Waivers needed by the Air Station and represent the Station at Ammunition Hazardous Materials (AMHAZ) Review Boards.
10. Coordinate Explosive Safety Surveys and Inspections of Station units by outside agencies.
11. Conduct an explosive safety brief for all transit ordnance handling crews prior to their handling of any ordnance at MCAS Cherry Point, Bogue Field and Atlantic Field.
12. Monitor the handling and transportation of ordnance at the rifle and pistol ranges.
13. Monitor the certification of explosive vehicles and loads arriving and departing the Station.
14. Monitor the transportation of explosives aboard this Air Station.
15. Comply with the Explosive Safety Officer's responsibilities, per reference (a).
16. Monitor the storage of ammunition of PMO, CID, NIS, rifle range and all armories.
17. Be an active participant in the SOP review processes.
18. Be a member of the 2d Marine Aircraft Wing Explosive Safety Quality Management Board.

1003. WING SQUADRON COMMANDING OFFICERS AND DEPARTMENT HEADS

1. Ensure that all personnel under their cognizance comply with policies and regulations that concern the handling of explosives aboard the Air Station.
2. Ensure that all personnel handling explosives are qualified and certified per the current edition of reference (g) for Navy personnel and reference (h) for Marine Corps personnel.
3. Develop safety training for supervisory and nonsupervisory personnel to ensure that safety objectives are attained. Utilize Fleet Replacement Enlisted Skills Training (FREST) for refresher training.
4. Develop Standard Operating Procedures (SOP) and forward proposed procedures to the Explosive Safety Officer for final review.
5. Assign a Unit Explosive Safety Officer in writing and forward a copy to the Explosive Safety Officer.

ORDNANCE SAFETY PRECAUTIONS

1004. SUPERVISORY PERSONNEL

1. Shall be thoroughly familiar with the safety standards pertaining to explosive safety, and ensure personnel under his/her cognizance understand and comply with these explosive safety standards.
2. Ensure all personnel handling explosive material are qualified and certified to perform the job assigned to them, and that this certification is current. This requirement is applicable to civilian government contractors, aircrew, hydraulic shop, aircraft egress, Aviation Life Support System (ALSS) and Safety Survival Shop personnel outlined in reference (h).
3. Act positively to eliminate any potential accident hazard that exists within their operational jurisdiction.
4. Conduct explosive safety training at least quarterly, or as new explosive material or techniques are introduced into the operation. This requirement applies to aircraft refuelers, Visiting Air Lines and Air Operations personnel involved in explosive handling evolutions.
5. Investigate and report all accidents and incidents involving explosive material.
6. Ensure all personnel involved with handling explosives meet the medical examination requirements established by reference (a).

1005. NON-SUPERVISORY PERSONNEL

1. Be charged with reading, understanding and strictly observing all safety standards, requirements and precautions applicable to their work or duty.
2. Report any unsafe acts or practices to their supervisory personnel for corrective action.

1006. FIRE FIGHTING PERSONNEL. Station fire fighters and crash crew personnel shall be familiar with the requirements of reference (a), chapter 4 in the performance of their duties associated with fighting explosive-hazard type fires.

1007. ARMORY PERSONNEL. Armory personnel shall adhere to the safety regulations and physical security requirements of references (a) and (m).

1008. EOD PERSONNEL. Explosive Ordnance Disposal personnel shall be familiar with the requirements established by reference (a), chapter 13, in addition to the specific regulations involving the performance of their duties.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 2

GENERAL

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 2

GENERAL

2000. SAFETY BRIEF. The Explosive Safety Officer shall conduct an Explosive Safety Brief for all personnel handling ordnance aboard MCAS Cherry Point.

1. **An** annual Station Explosive Safety Brief will be scheduled with the Wing Standardization and Safety as part of a tenant unit's annual training requirements. Additional safety briefs shall be a function of the supervisor's quarterly training schedule.

2. Safety briefs for visiting units shall be conducted prior to the issuance, handling, transporting, loading/downloading of any ordnance aboard this Station, Bogue Field and Atlantic Field. Briefs will be scheduled Monday thru Friday (except holidays) between the hours of 0730 - 1500 at a unit location designated by the Explosive Safety Officer. Unit personnel will contact the Joint Safety Office, DSN: 582-3994/3473 or COML: (919)466-XXXX, a minimum of two weeks prior to arrival to schedule a brief at the earliest possible time after arrival.

3. A predeployment conference is mandatory for visiting squadrons reporting aboard the Air Station, and will be scheduled by Air Operations and the Explosive Safety Officer.

2001. GENERAL SAFETY PRECAUTIONS. This order covers basic safety requirements, standards and practices to be observed when preparing, handling, storing, transporting, loading/unloading or when assembling/disassembling ammunition and explosives. Analyses of accidents that have occurred while using ammunition or explosives show that avoidable circumstances existed in nearly every instance when the cause of the accident could be determined. It is imperative that a complete understanding and strict observance of specified safety regulations be mandated to eliminate the unsafe acts and conditions that cause preventable accidents. The following general safety regulations must be observed by all personnel who participate in operations involving ammunition or explosives.

1. Changes, modifications or additions to explosive ordnance material or other material used in connection therewith shall not be made without explicit authority from Naval Ordnance Center (N.O.C.) or Naval Air Systems Command (NAVAIRSYSCOM).

2. Safety devices provided shall always be used to reduce the probability of accidents. They will be kept in good order and operative at all times.

3. No ammunition shall be disassembled, tampered with, or fired in any device not designated for that ammunition.
4. Handling of ammunition shall be reduced to a minimum to prevent accidents and damage to munitions or their containers.
5. Care shall be taken to preserve all ammunition identification.
6. When conducting any ordnance operation, the applicable current ordnance checklist, publication, instruction, or directive shall be reviewed and complied with.
7. A qualified/certified safety observer shall be present during any explosive ordnance evolution.
8. Class 1.1 or 1.2 explosives will not be permitted on the flightline.
9. A red flag (international Bravo) shall be hoisted and kept flying whenever explosives are being handled.
10. Smoking or flame producing articles shall never be permitted around ammunition and explosives.
11. All ammunition and explosive accidents or incidents will be reported per references (i) and (j).
12. Personal injury or death resulting from an explosive accident or incident will be reported per reference (i).
13. Explosive accidents or incidents occurring as a result of fire shall be reported per reference (1).
14. Missing-Lost-Stolen-Recovered (MLSR) Reporting - Ammunition and explosive property losses frequently occur because regulations relating to proper safeguarding and handling are not followed. All Marine Corps activities shall report incidents of MLSR following the policy and procedures outlined in reference (k).
15. Personnel engaged in handling or working with explosives should be repeatedly reminded that such material is designed to kill or cause major damage, and does not distinguish between friend or foe, training or combat. If explosives are handled roughly and without consequence, a careless attitude is often promoted. Because safety precautions are violated once, or even twice with impunity and without accident, there is no reason to assume that an explosion cannot occur the next time. Safety precautions provide procedures that must never be compromised. Those personnel choosing to do so seldom get the opportunity to make the same mistake twice.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 3

MAGAZINE AND MAGAZINE AREAS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 3

MAGAZINE AND MAGAZINE AREAS

3000. GENERAL MAGAZINE SAFETY REGULATIONS

1. The keys to Station Ordnance Division magazines are to be under the personal charge of the Station Ordnance Division Officer, who will permit the magazine to be opened at such times, and by such persons, as are specifically authorized by him. Unauthorized personnel shall not be permitted into the Station Ordnance Division compound or any building assigned to the Station Ordnance Division without this expressed verbal or written authorization.
2. The confines of the station ordnance magazine area shall be defined by the presence of a security fence meeting the requirements outlined in reference (m).
3. Magazines will always be locked when unattended.
4. Each magazine shall have safety rules, precautions, explosive limits and specific instructions for handling the explosive material stored within, posted on the inside of one magazine door, or inside on the front wall near the door.
5. The magazine area will be free of rubbish, brush and other flammables. A cleared area 50 feet wide shall be maintained around each above-ground magazine and earth-covered magazine. Vegetation shall be kept away from the ventilators of subsurface/earth-covered magazines to prevent flames from traveling down into the magazine.
6. Hunting is permitted within the magazine area, provided the requirements outlined in reference (a) are not compromised.
7. Smoking is prohibited in the magazine area, or near vehicles containing explosives, ammunition, or pyrotechnics. Designated smoking areas shall be marked as such.
8. Ammunition and explosives shall be protected from abnormally high temperatures. Before performing any hot work on a magazine or Ready Service Locker, the station fire chief and safety office must be notified so that an inspection of equipment and procedures can be performed prior to work.
9. Ammunition shall be stored in magazines according to instructions and directives promulgated by NAVSEASYS COM. Nothing shall be stored in magazines except arms (where authorized), ammunition, explosives, ammunition containers or authorized magazine equipment.
10. All magazines and buildings containing ammunition or explosives shall be kept clean at all times. Rubbish and trash, such as empty boxes, scrap lumber, nails and strapping shall not be permitted to

accumulate. The magazine inspection SOP shall include this requirement and results monitored for compliance.

11. Fire prevention practices are described in chapter 4 of reference (a).

12. Portable generators, extension lights, flashlights and lanterns may be used in and around magazines provided they meet the requirements of reference (a).

13. Material handling equipment used with weapons, explosives, or ammunition must be approved and maintained under the guidelines of references (a), (e) and (r).

14. Explosives shall be protected from the elements to reduce the adverse effects associated with high temperature and moisture. This is especially important for smokeless powder containers which deteriorate rapidly if exposed to these environments.

15. Open containers and containers with covers not securely fastened shall not be allowed in magazines. Containers that have been opened shall be closed and sealed. Empty containers require inspection and certification as per reference (a).

16. Compatibility requirements outlined in reference (f) shall be complied with for all explosive hazardous material storage.

17. Magazine doors shall remain unlocked when personnel are working within that magazine and exits shall remain clear.

18. Repairs to magazines or equipment shall be made by qualified personnel and supervised by a competent ordnance NCO from the Station Ordnance Division. Magazines, to include the immediate area surrounding them, must be inspected for fire hazards prior to and immediately following any repairs that involve hot work.

19. At the approach of (no closer than 5 miles), and during an electrical storm, closed magazines containing ammunition and explosives shall not be opened. If work is being performed in a magazine or open storage site, work shall halt, magazine doors closed and locked, and personnel withdrawn to a safe location.

20. In explosives handling operations, no one person shall be permitted to work alone in a location where assistance from another cannot be given immediately in the event of an accident or incident.

21. Hermetically sealed cartridge, CAD, or AEPS containers shall be marked with the date (year/month) container was opened.

22. Site approval through ~~Naval Ordnance Center or Fleet Technical Support Center Atlantic~~ ^{Naval Ordnance Center Atlantic Division} is required to relocate existing Ready Service Lockers. Ready Service Lockers shall not be moved without this written approval.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 4

BOMBS AND BOMB FUZES

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 4

BOMBS AND BOMB FUZES

4000. GENERAL SAFETY REGULATIONS

1. Notes, warnings, or cautions pertaining to bomb-type ammunition and components shall always be reviewed prior to commencing any explosive operation involving this material.
2. Bomb-type ammunition shall be stored in standard, barricaded, earth-covered magazines. When approved by the Naval Ordnance Center, bomb-type ammunition may be stored in barricaded open-storage modules if security regulations are met and ammunition is protected against deterioration.
3. Storage of fuzes and boosters shall be in accordance with reference (a).
4. Bomb component receptacle cavities shall always be inspected for exudation and foreign materials before and after assembly/disassembly of fuzes, boosters or arming switches.
5. Steel instruments or tools that may cause sparks shall not be used for cleaning fuze cavities or for scraping around threads where exudation may be present.
6. Hoisting slings and bands shall be weight tested and marked as such once a calendar year. They shall be inspected prior to use and from time to time during hoisting operations.
7. It is essential that fuze safety devices remain in place during all handling, assembly or disassembly phases.
8. Bomb-arming wires shall be free of burrs, nicks and kinks, and installed following established routing procedures.
9. If it becomes necessary to change the configuration of aircraft arming wires, the fuze must be removed and the weapon downloaded prior to commencing. Aircraft switches shall be made safe and the fuze safety cotter pins shall be installed to prevent rotation of the arming vane.
10. ~~MK 76/106~~ ^{MK BDU-48} practice bombs shall be moved with extreme caution once configured with signal cartridges. Personnel should carry one bomb at a time with tail pointing away from body.
11. Practice bombs shall be downloaded from the aircraft and their signal cartridges removed prior to securing daily flight operations.

12. BDU-45 practice bombs with electric tail fuzes may be loaded on the flight line. Established procedures for handling explosive filled bombs shall be observed.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 5

ROCKETS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 5

ROCKETS

5000. GENERAL SAFETY REGULATIONS

1. Notes, warnings and cautions pertaining to rocket type ammunition and components shall always be reviewed prior to commencing any explosive operation involving this material.
2. Rocket motors assembled with high explosive heads (HE) may be stored in the all-up-round configuration provided they are stored in complete "launcher-shipper" containers.
3. Rocket motors without heads present a fire hazard similar to smokeless powder. They should be stored in a smokeless powder type magazine.
4. Rocket motors burn with intense heat and gas pressure once ignited. Personnel should never stand directly in front or behind rockets when performing firing circuit stray voltage checks.
5. Firing circuits shall remain open at all times until the aircraft is in a designated arming area and a stray voltage check confirms that stray voltage is not present.
6. Only Explosive Ordnance Disposal (EOD) personnel are authorized to remove propellant grain from rocket motors.
7. A rocket motor that has been dropped a distance of 2 feet or more, or has evidence of external damage when dropped from lesser distances will not be used. The motor shall be clearly marked with pertinent information regarding the dropping, segregated and returned to Station Ordnance for proper disposition.
8. Rockets should be protected from the direct rays of the sun. Propellant temperatures can increase by as much as 20 degrees above indicated temperatures if not shaded.
9. Only qualified/certified personnel are authorized to load and down-load rockets to or from launchers. This is usually done in the Station Ordnance assembly area, however, RADHAZ safe MK-66 MOD 2 motors may be tube loaded under the guidance of the unit ordnance safety officer in designated combat loading areas.
10. The selector switch on rocket pods shall remain on "L" at all times until loaded on aircraft.
11. Rocket warheads shall be torqued if required by directives.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 6

PYROTECHNICS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 6

PYROTECHNICS

6000. GENERAL SAFETY REGULATIONS

1. Notes, warnings and cautions pertaining to pyrotechnic components shall always be reviewed prior to commencing any explosive operation involving this material.

2. When a parachute flare with a set fuze is not going to be used, the fuze setting must be returned to the "SAFE" position and the lanyard taped before the parachute flare is stowed in the original container.

3. Cartridge type pyrotechnics shall be used only in the devices for which they were intended.

4. Pyrotechnic ammunition shall not remain in aircraft which are operationally grounded for an indetermined amount of time, or are preserved.

5. Pyrotechnic ammunition stowed aboard aircraft shall be properly secured.

6. Pyrotechnic ammunition shall not be disassembled.

7. Pyrotechnic ammunition, other than pilot survival components, shall be removed from aircraft prior to hangaring for any maintenance or servicing.

8. Smoke filled practice bomb signals shall be stored as pyrotechnics.

9. Pyrotechnics shall not be stored in the direct rays of the sun.

10. Decoy flares protruding from ALE-29 Dispenser will not be touched. Contact Explosive ~~Order~~ Ordnance Disposal (EOD) at extension 2801 for proper disposal.

11. Decoy flares with exposed flare grain will not be handled. Contact EOD at extension 2801 for proper disposal.

12. Decoy flares NALC 2W11 and MJU-27/B contain pyrophoric metal which is spontaneously combustible when exposed to air. Extreme caution should be exercised when removing them from container or dispenser. Pyrophoric metal will glow dull to bright red when exposed to air.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 7

JET ASSISTED TAKEOFF (JATO)

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 7

JET ASSISTED TAKEOFF (JATO)

7000. GENERAL SAFETY REGULATIONS

1. Notes, warnings and cautions pertaining to JATO type ammunition and components shall always be reviewed prior to commencing any explosive operation involving this material.
2. Jet assisted takeoff units may ignite or explode violently when involved in a fire. They will normally be stowed as smokeless powder or bomb type ammunition.
3. All possible precautions shall be taken to keep fire and flammable materials away from JATO units and to keep them from becoming heated in order to prevent accidental ignition.
4. JATO units contain oxidizing agents and once ignited are impossible to extinguish. Due to danger of explosion, fighting of fires involving JATO units should not be attempted. Units which are aflame shall be isolated, if possible, and allowed to burn themselves out.
5. JATO ignitors shall be stowed separately from the JATO units, preferably by themselves, in a fuze and detonator magazine.
6. Before installing JATO units on aircraft, personnel shall familiarize themselves with the loading and safety precautions associated with JATO and particular aircraft being loaded.
7. JATO units dropped from a height of greater than 12 inches or subjected to rough handling shall be clearly marked "UNSAFE FOR USE" and returned to Station Ordnance.
8. Indian Head Division, Naval Surface Warfare Center (Code 5720) shall be notified of all circumstances involving JATO units that are declared unsafe for use in order to effect proper disposition instructions.
9. JATO units shall only be armed in designated arm/dearm areas.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 8

AMMUNITION AND GUNS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 8

AMMUNITION AND GUNS

8000. GENERAL

1. Notes, warnings and cautions pertaining to aircraft guns and components shall always be reviewed prior to commencing any explosive operation involving this material.
2. Prior to maintenance on an aircraft gun, a visual check of all chambers shall be made to ensure gun is clear of ammunition.
3. Extreme care shall be exercised when handling electrically initiated aircraft gun ammunition.
4. When ground checking the operation of any aircraft gun, all ammunition shall be clear of the gun and feeder assembly. It is recommended that all ammunition be cycled into the storage drum or magazine prior to these checks.
5. Aircraft returning from a firing mission shall verify clear guns in the designated dearming area prior to returning to squadron flightline.
6. Live ammunition shall never be charged or cycled through an aircraft gun.
7. Electrically primed ammunition will never be pulled across any material that will generate static electricity.
8. Jammed guns shall be cleared in the arm/dearm areas using a heading of 120-135 degrees magnetic. After safing, aircraft shall be taxied to the Combat Aircraft Loading Area and positioned in assigned spots for downloading.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 9

GUIDED MISSILES

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 9

GUIDED MISSILES

9000. STORAGE

1. Notes, warnings and cautions pertaining to missiles and components shall always be reviewed prior to commencing any explosive operation involving this material.
2. Missiles will be stored in their original shipping container and all safety pins and static electricity caps will remain installed in accordance with their hazard classification.
3. Captive air training missiles (CATMs) are authorized to be stored in a designated area within an aircraft hangar provided the provisions of reference (a) are met.

9001. ISSUE/TURN-IN

1. With the possible exception of wing and fin installation, missiles are issued in the "all up round" (AUR) configuration.
2. Prior to issue, the assembly crew shall inspect the missile for any obvious damage and ensure all safety devices function as designed.
3. Any missile that is dropped or known to have been handled in a questionable manner shall not be issued. The applicable explosive mishap report shall be initiated with request for disposition instructions.
4. Unexpended missiles returning to storage shall be inspected for visible damage and the presence of functional safety devices.

9002. TRANSPORTATION

1. Prior to transporting missiles, ensure they are secured in authorized handling equipment.
2. Missiles shall be pointed aft when transported in handling gear on trailers.

9003. LOADING/DOWNLOADING

1. All tactical missiles shall be loaded in the Combat Aircraft Loading Area (CALA) .
2. All tactical missiles shall be armed/dearmed in designated areas.

3. Captive air training missiles (CATMs) may be loaded on the flightline in accordance with reference (o).

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 10

ORDNANCE SHOPS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 10

ORDNANCE SHOPS

10000. GENERAL SAFETY REGULATIONS

1. Explosive ordnance shall never be assembled, preloaded, or prepped in any area not designated as "site approved".
2. Ammunition, paints and lubricants shall only be stored in approved flame proof lockers at least 50 feet from any operating building.
3. Cleaning solvents shall be used in well ventilated areas only.
4. Personnel shall be thoroughly indoctrinated in the safety precautions of all shop equipment prior to its use.
5. All shop equipment shall be inspected and tagged to denote proper operation prior to use. Faulty equipment shall not be used.
6. Personnel not required to support specific ordnance evolutions shall remain clear of those operations.
7. Extreme care coupled with knowledge of designed safety features shall be exercised when operating power driven equipment or machinery.
8. Safety devices installed on shop equipment or power driven machinery shall never be over-ridden.
9. Shop areas shall be kept clean and all materials adequately stored.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 11

ORDNANCE TRANSPORTATION

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 11

ORDNANCE TRANSPORTATION

11000. GENERAL SAFETY REGULATIONS

1. Any vehicle used for transporting explosive ordnance shall be inspected and maintained in accordance with the instructions contained in references (a) through (d).
2. Drivers of vehicles carrying explosives shall be licensed in accordance with instructions contained in reference (c).
3. Drivers are responsible for ensuring explosive cargo is properly secured to transport vehicle.
4. Vehicles shall not be used as temporary storage for explosives.
5. Smoking is prohibited within 100 feet of vehicles transporting munitions, explosives or other dangerous articles. This also applies to the driver, security guard and relief driver within the cab of the transport vehicle.
6. Speed limits will be observed as indicated in reference (c) and Air Station Regulations.
7. Vehicles transporting explosives will display placards and observe the compatibility requirements of reference (f).
8. Drivers shall not attempt to dispose of badly damaged containers of ammunition, explosives or other dangerous material. EOD personnel shall be notified in cases involving suspect hazardous cargo.
9. Personnel shall not ride in the cargo compartment of a vehicle transporting explosives or ammunition except when limited amounts of Class 1 Division 4 material are being carried. Cargo must be secured. Anchored seats shall be provided for the additional personnel.
10. Vehicle brakes shall be set and wheels chocked prior to loading/unloading cargo.
11. Any commercial vehicle arriving at MCAS Cherry Point to deliver explosives shall have a walk around inspection performed by PMO to check for outward signs of damage, tampering or sabotage prior to further transfer aboard the Air Station.
12. Ordnance shall only be transported over authorized and established explosive routes.

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CHAPTER 12

FLIGHTLINE OPERATIONS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 12

FLIGHTLINE OPERATIONS

12000. GENERAL

1. Explosive Class 1, Divisions 3 and 4, material may be loaded on the squadron flightline.
2. Aircraft shall be grounded at all times, unless under the pilot's control as outlined in reference (q).
3. Acceptable grounding is defined as using an approved grounding strap fastened to approved grounding points on aircraft and parking ramp. References (n) and (q) establish approved aircraft grounding procedures.
4. Tie down chains are not considered acceptable grounding for explosive loading/downloading operations aboard MCAS Cherry Point.
5. Ammunition safety devices shall never be rendered inoperative for convenience and speed of loading or unloading aircraft.
6. Applicable checklists shall be used during ordnance/aircraft evolutions.
7. A qualified/certified safety observer shall be present during all ordnance evolutions.
8. Ordnance will not remain on or in an aircraft overnight as outlined in reference (n).
9. Captive Air Training Missiles are authorized in aircraft hangars for temporary storage only.
10. Only those practice bombs (~~MK-76/MK-106~~ ^{MK-80/BDU-48}) required to meet that day's flight schedule may be assembled. At the conclusion of flight-operations, all signal cartridges will be removed from practice bombs and returned to storage.
11. During thunderstorms, precautions outlined in references (a) and (n) shall be observed.

12001. READY SERVICE MAGAZINES

1. Ready service magazines are generally used to store small quantities of ammunition, certain pyrotechnics and similar material that present fire but no blast hazard. At a minimum, ready service magazines must be placarded with the fire symbol representing the most hazardous material authorized to be stored within, general and

specific safety regulations and the maximum authorized explosive limit. Depending upon contents, additional symbols such as specific chemical hazards may be required.

2. All areas used for short-term storage or holding of ammunition, explosives and associated hazardous materials shall be periodically inspected. For inspection purposes, RSMs require specific examination of the structure itself, the surrounding area (site), and the material stored within.

3. RSM inspection checklists covering applicable factors outlined in paragraph 11-8.1.1 of reference (a) is required. These checklists shall include the date of inspection, deficiencies noted and corrective action taken. It is recommended that these inspections occur at least monthly, however, frequency of use or previous inspection results may warrant increased monitoring. Records of inspection shall be maintained for a minimum of one year.

4. Only those personnel qualified/certified under the guidelines of references (g) and (h) are authorized to be in a RSM.

5. Explosive class 1, divisions 3 and 4 are currently the only authorized material sited for storage in squadron RSMs.

6. The term RSM denotes a type of "portable" magazine. "Portable" does not give the option to move a RSM without proper authority. Once a site request has been approved and the RSM has been sited and grounded, its location cannot be changed without resubmission for site approval to Naval Ordnance Center.

7. A clear zone of 50 feet shall be maintained around all RSMs. Combustible material shall not be allowed to accumulate within these clear zones.

8. Do not stockpile munitions in ready service magazines. This includes condition codes "F" or "H" fleet return material.

9. Munitions stored in RSMs shall remain in its original container until expended. Fleet return material shall be returned in its original container where applicable.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 13

COMBAT AIRCRAFT LOADING AREA

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 13

COMBAT AIRCRAFT LOADING AREA

13000. GENERAL

1. Ordnance handling pads and Combat Aircraft Loading Areas are areas designed and constructed to meet the explosive safety and quantity distance requirements of reference (a) during loading or unloading of high explosives on combat or cargo aircraft. A map depicting the exact location of the ordnance handling pad or CALA is included in the station's Air Operations Manual and reference (o).
2. Use of the pad or CALA is mandatory during the loading, unloading and rearming of aircraft carrying hazard class 1.1 or 1.2 ammunition as defined by reference (a). The pad or CALA shall also be used as the station "red label" area for loading or unloading hazardous material from cargo aircraft.
3. The pad or CALA is also used for all emergency safing and unloading of HERO-unsafe or HERO-susceptible ordnance and hung ordnance that cannot be adequately safed in the arming/dearming area.
4. Rules and regulations pertaining to the operation and scheduling of the ordnance handling pad or CALA are outlined in reference (o).

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 14

HELICOPTER OPERATIONS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 14

HELICOPTER OPERATIONS

14000. GENERAL

1. Helicopters carrying munitions of explosive class 1.1 or 1.2 must be loaded/downloaded in the CALA.
2. Only those personnel qualified/certified under the guidelines of references (g) and (h) may load/download, arm or dearm helicopters.
3. Approved checklists or loading manuals shall be used during all helicopter evolutions involving ordnance.
4. A qualified/certified safety observer shall be present during all operations involving ordnance.
5. Helicopter rapid rearm operations often require loading procedures not specifically outlined in normal loading evolution checklists. In the event this rearm requirement exists, the only rockets presently allowed to be "tube loaded" is 2.75" MK-66 MOD 2. All other rockets must be loaded into launchers in the approved explosive ordnance build-up area.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 15

ARM/DEARM PROCEDURES

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 15

ARM/DEARM PROCEDURES

15000. GENERAL

1. A qualified/certified safety observer shall be present during all arm/dearm evolutions.
2. Only qualified/certified ordnance personnel may arm/dearm an aircraft.
3. At no time shall any persons be permitted under an aircraft after safety devices are removed for launch or before installation following a flight or flight abortions.
4. Reference (n) should be reviewed for specific arm/dearm procedures and precautions.

15001. FORWARD FIRING ORDNANCE. All forward firing ordnance shall be armed/dearmed in designated arm/dearm areas.

15002. BOMBS RETARDED/NON-RETARDED

1. Explosives class 1.1 and 1.2 bombs retarded/nonretarded may be armed (have safety devices removed) in the CALA following final check.
2. Aircraft returning to MCAS Cherry Point with bombs (hung ordnance) must go to a designated arm/dearm area to have the safety devices installed prior to returning to the CALA.
3. Inert ordnance (practice bombs with signal cartridges) may be armed on the flightline following final check. This type ordnance may be dearmed (have safety devices installed) on the flightline also, however, dearming procedures must take priority over any other procedure involving returning aircraft.

15003. CHAFF AND DECOY FLARES. Chaff and decoy flares may be armed/dearmed on the flightline in accordance with appropriate checklists.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 16

MILITARY WORKING DOGS TRAINING

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 16

MILITARY WORKING DOGS TRAINING

16000. ISSUE AND TURN-IN

1. Only those personnel qualified/certified under the guidelines of references (g) and (h) are permitted to handle, transport or come in contact with the explosive training aids associated with a Military Working Dog Kit. EOD personnel shall provide explosive safety training to personnel authorized use of these kits.
2. Prior to issue of any training aid from the Military Working Dog Kit, an inventory of the entire kit shall be conducted by those personnel drawing the samples. This inventory will again be conducted upon the return of the training aids. **An** accountability logbook shall be maintained recording these transactions/inventories.
3. No more than seven pounds N.E.W. of explosive material shall be issued at any time.
4. The issue of blasting caps, squibs, explosive detonators or any initiating explosive for use as a training aid is strictly forbidden.
5. Prior to the issue of any dynamite, inspect for the presence of exudate. If exudate is present, the dynamite shall not be issued. EOD shall be notified immediately.

16001. TRANSPORTATION

1. Explosive training aids shall only be transported in government vehicles that meet the criteria as set forth in reference (c).
2. The driver of any vehicle carrying explosive training aids must have a valid Explosive Drivers License.
3. The explosive laden vehicle must carry a fully charged CO2 or dry chemical fire extinguisher.
4. The explosive laden vehicle shall be placarded with "EXPLOSIVE A" placards on front, rear and both sides.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 17

RADIATION HAZARD SAFETY

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 17

RADIATION HAZARD SAFETY

17000. GENERAL

1. Hazards of Electromagnetic Radiation to Ordnance (HERO) stem from the functional characteristics of electrically initiated ordnance. The ordnance electroexplosive devices (EEDs) may be accidentally initiated or their performance degraded by exposure to r-f environments. In general, ordnance is more susceptible to r-f environments during assembly, disassembly, handling, loading and unloading.

2. There are four HERO ordnance classifications based upon the degree of susceptibility; they are as follows:

a. HERO SAFE - Any ordnance item that is percussion initiated, sufficiently shielded, or otherwise protected in its expected r-f environment.

b. HERO SUSCEPTIBLE - Any ordnance containing EEDs proven to be adversely affected by r-f energy to the point that the safety and/or reliability of the system is in jeopardy when the system is employed in its expected r-f environments.

c. HERO UNRELIABLE - Any ordnance item, including those having a HERO SAFE or HERO SUSCEPTIBLE ordnance classification whose performance is degraded due to exposure to the r-f environment.

d. HERO UNSAFE - Any ordnance item, including those having a HERO SAFE or HERO SUSCEPTIBLE ordnance classification whose exposure to the r-f environment may cause accidental initiation or detonation.

3. The Air Station's HERO Emission Control Bill is a set of directions for implementing HERO restrictions. Reference (s) establishes the most efficient method of managing the conflict between high-power transmitting equipment and HERO classified ordnance.

4. Reference (p) provides precautions and procedures for safe handling, transporting and storing electrically initiated ordnance when the possibility of exposure to radio frequency environments exist.

ORDNANCE SAFETY PRECAUTIONS

CHAPTER 18

DISASTER PLAN FOR EXPLOSIVE OPERATIONS

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ORDNANCE SAFETY PRECAUTIONS

CHAPTER 18

DISASTER PLAN FOR EXPLOSIVE OPERATIONS

18000. GENERAL. Reference (v) establishes basic preparatory measures for emergency measures for emergency crash rescue and firefighting services. References (i),(t) and (y) establish procedures for accident or incident investigation and reporting. Reference (w) is the MCAS Airfield Operations Manual. Reference (x) is the Standing Operations Procedures (SOP) for the Joint Public Affairs Officer, which defines policy regarding cooperation with news media representatives at the scene of military accidents. Reference (u) Explosive Ordnance Disposal Program. Explosive disasters (i.e... fires involving explosives or accidental detonation) have the potential to involve personnel not directly related to explosive operations and could occur within our air station and facilities at any time. When this crisis situation occurs, it is mandatory that personnel of this Headquarters be prepared and provide the correct actions to successfully respond. This Order assigns responsibility for the performance of required actions, while Appendixes A and B provides the minimum requirements for safeguarding personnel and property.

18001. MCAS CHERRY POINT. The Commanding General, Chief of Staff and Officer of the Day, will be immediately notified of a disaster, potential disaster, or similar special situation within this command.

18002. ORDNANCE OFFICERS. All ordnance officers will maintain recall procedures to ensure availability and notification of personnel required to respond. The Ordnance Officer will determine the location of the incident and the type of explosive material involved. If the incident involves a storage or operating facility, determine the type and quantity of other material which may become involved. Notify PMO and the Fire Department.

18003. COMMAND AND CONTROL. The senior fire official at the disaster site shall have control of the activities of all responding agencies and personnel. If an on-airfield or on-station disaster involves an aircraft containing ordnance only, the senior Crash Fire Rescue (CFR) Marine shall be the senior fire official. If an on-airfield or on-station disaster involves both a structure and an aircraft, the MCAS Fire Chief shall be the senior fire official.

18004. COMMAND POST. A command post (CP) must be established outside the perimeter of the evacuation area. All responding

agencies shall check-in at the CP upon arrival at the site. The CP is the focal point for all actions during a crisis situation.

18005. RESPONDING AGENCIES. The responding agencies will normally consist of the Ordnance Officer, Provost Marshal's Office (PMO), Joint Public Affairs Office (JPAO), Fire Department, Crash Fire Rescue (CFR), MCAS Naval Hospital, Explosive Ordnance Disposal (EOD), and Ground and Explosive Safety.

18006. PROVOST MARSHAL. Utilize Appendixes A and B to implement the appropriate emergency action. Establish an evacuation perimeter if required and evacuate total area. Let essential personnel in as needed, Roadblocks will be utilized to prevent unauthorized personnel from entering the evacuation area.

18007. JOINT PUBLIC AFFAIRS OFFICE. Only the JPAO or his designated representative shall release information of any kind concerning an explosive disaster. Request for information shall be referred to the JPAO, who will handle such requests in accordance with the current edition of reference (x).

18008. FIRE DEPARTMENT. Ascertain the location and the type of explosive material involved. All fire or incidents occurring on the Air Station other than the airfield, will be the responsibility of the Station Fire Department. Use Appendixes A and B and any other applicable fire fighting manuals for the type of material involved to implement emergency actions.

18009. CRASH FIRE RESCUE. Ascertain the location and the type of explosive material involved and its location. Fires or incidents involving explosive material on the airfield are the responsibility of CFR. Utilize Appendixes A and B and any other fire fighting manual for the type of material involved to implement emergency actions.

18010. MCAS NAVAL HOSPITAL. The Commanding Officer, Naval Hospital (NAVHOSP) Cherry Point will provide a radio-equipped ambulance and duty medical officer for response to an explosive disaster.

18011. EXPLOSIVE ORDNANCE DISPOSAL (EOD)

1. The senior EOD representative available will coordinate EOD efforts from the CP.

2. **An** initial EOD Response Team will respond to the explosive ordnance incident for the purpose of locating, identifying and categorizing explosive incidents to include a damage assessment. They will report their findings to the EOD representative at the CP for action. This response team may pick up, perform render safe procedures and dispose of many simple incident categories.

3. Each EOD incident will be categorized according to the threat it poses to critical combat resources and facilities or by the resultant destruction potential, should the item detonate. Incidents will be categorized as A, B, C or D as defined in reference (u) paragraphs 6g(1) through 6g(4). Areas or locations that are potential incident targets should be precategorized whenever possible to assist in the risk decision.

18012. EXPLOSIVE AND GROUND SAFETY OFFICERS. Report to the CP and await further directions from the EOD representative. Safety is responsible for making a preliminary investigation in all cases where MCAS becomes involved in an explosive disaster. They shall also assist all interested departments in establishing their action procedures and make timely recommendations.

18013. COMMUNICATION-ELECTRONICS OFFICER (CEO). The CEO will coordinate to provide additional phones and portable radios, if needed. The CEO will also ensure the Communication Center routes applicable messages as required.

18014. TWO-WAY RADIO. Most MCAS agencies responding to emergencies have radios capable of operating on more than one frequency. This capability can give flexibility to radio communications by allowing alternate channels to pass messages and information. The frequencies, frequency names and agencies are listed in Appendix C.

18015. DIRECTORATES. Each directorate involved will develop a crisis action checklist which delineates their respective areas of responsibility during a disaster.

18016. REPORTING PROCEDURES. The Commanding General shall require the investigation and reporting of all reportable explosive mishaps occurring within their command or involving personnel attached to their command.

ORDNANCE SAFETY PRECAUTIONS

18017. SUBMISSION OF REPORTS. Reports are to be unclassified (FOR OFFICIAL USE ONLY), unless inclusion of classified material is essential.

1. OPREP-3 Reports. The Commander's Operational Report (OPREP-3 Navy Blue) as outlined in reference (t), requires immediate notification of higher headquarters in the event of a serious incident where national level interest or high level Marine Corps interest is present. The Commanding General or Chief of Staff are the only officers authorized to release this message. Initial notification per reference (t) should be made immediately; however, the Explosive and Ground Safety Officers will ensure all reports are submitted. These reports will include notification to the Commander, U.S. Marine Forces, Atlantic, and the Commanding General, 2d Marine Aircraft Wing.
2. Explosive Mishap Report (EMR). The EMR reporting procedures are outlined in reference (i). The EMR provides guidance for reporting mishaps involving explosive incidents and dangerous defects concerning explosive systems (ordnance and cartridge actuated devices) and launch devices occurring in detonation, deflagration or release of ordnance material resulting in damage, death or injury.
3. Serious Mishap Report (SMR). When a serious mishap is reported by a Commander's Operational Report (OPREP-3), an SMR is not required if the CMC (MHS) is included as an information addressee on the OPREP-3 report. SMR reporting procedures are outlined in reference (y).

ORDNANCE SAFETY PRECAUTIONS

APPENDIX A

CLASS 1 DIVISIONS 1 THROUGH 4 - PRIMARY HAZARDS

CLASS 1 DIVISION 1 - PRIMARY HAZARD "MASS DETONATION"

- a. The Provost Marshal will evacuate all nonessential personnel within 4000 feet.
- b. The Provost Marshal will establish a Command Post on the 4000 foot perimeter.
- c. Do not attempt to fight fires directly involving Class 1, Division 1 materials unless a rescue attempt is being made.
- d. If there is a safe distance between nonexplosive and symbol 1 (wear full protective clothing) materials, and if approved by the Fire Chief, fire fighting crews may attempt to extinguish the fire.
- e. The Senior Fire Official and Ground/Explosive Safety representative will make the determination when the area is safe to enter, based on EOD Team field reports to the EOD representative at the CP.
- f. The EOD team leader will clear the area prior to any entry.
- g. The EOD Officer, Environmental Affairs Office and Joint Safety Office will coordinate the clean-up of hazardous material created by the ordnance itself.

CLASS 1 DIVISION 2 - PRIMARY HAZARD "EXPLOSIVE WITH FRAGMENTS"

- a. The Provost Marshal will evacuate all nonessential personnel within 2500 feet.
- b. The Provost Marshal will establish a Command Post on the 2500 foot perimeter.
- c. Firefighting forces should fight the fire. If not possible, they should attempt to prevent the spread of the fire.
- d. Detonation of items could occur. Provide protection against flying fragments.
- e. The Senior Fire Official and Ground/Explosive Safety representative will make the determination when the area is safe to enter, based on EOD Team field reports to the EOD representative at the CP.
- f. The EOD team leader will clear the area prior to any entry.

ORDNANCE SAFETY PRECAUTIONS

g. The EOD Officer, Environmental Affairs Office and Joint Safety Office will coordinate the clean up of hazardous material created by the ordnance itself.

CLASS 1 DIVISION 3 - PRIMARY HAZARD "MASS FIRE"

a. The Provost Marshal will evacuate all nonessential personnel within 600 feet.

b. The Provost Marshal will establish a Command Post on the 600 foot perimeter.

c. Firefighting forces should fight the fire if explosives are not directly involved.

d. White phosphorus (WP) munitions may explode; therefore, if smoke is liberated, the phosphorus should be immersed in water or sprayed with water continuously.

e. For fires involving High Concentration (HC) (smoke grenades) and incendiaries:

(1) Water should not be used unless large quantities are available.

(2) Use dry sand or dry powder agent in the early stages.

f. For fires involving pyrotechnics and incendiaries:

(1) Protect adjacent buildings and magazines.

(2) Do not use CO2 or Halon extinguishers or water.

(3) Allow magnesium to cool unless upon flammable material. In this case, use a 2 inch layer of dry sand or powder on the floor and rake the burning material into this layer and re-smother. **An** EOD representative will make the determination when the area is safe to enter, based on EOD Team field reports to the EOD representative at the CP.

g. The Senior Fire Official and Ground/Explosive Safety representative will make the determination when the area is safe to enter, based on EOD Team field reports to the EOD representative at the CP.

h. The EOD team leader will clear the area prior to any entry.

i. The EOD Officer, Environmental Affairs Office and Joint Safety Office will coordinate the clean up of hazardous material created by the ordnance itself.

ORDNANCE SAFETY PRECAUTIONS

CLASS 1 DIVISION 4 - PRIMARY HAZARD - "MODERATE FIRE"

- a. The Provost Marshal will evacuate all nonessential personnel within 300 feet.
- b. The Provost Marshal will establish a Command Post on the 300 foot perimeter.
- c. Firefighting forces should fight the fire.
- d. Expect minor explosions and hot fragments.
- e. The Senior Fire Official and Ground/Explosive Safety representative will make the determination when the area is safe to enter, based on EOD Team field reports to the EOD representative at the CP.
- f. The EOD team leader will clear the area prior to any entry.
- g. The EOD Officer, Environmental Affairs Office and Joint Safety Office will coordinate the clean up of hazardous material created by the ordnance itself.

ORDNANCE SAFETY PRECAUTIONS

APPENDIX B

CHEMICAL AMMUNITION

1. Use the below listed precautions and protective measures in addition to those listed in Appendix A for fighting fires associated with chemical ammunition spills.

**RIOT CONTROL/SMOKES/INCAPACITATING AGENTS - PRIMARY HAZARD
"TOXIC AS AEROSOL/VAPOR"**

- a. Use the following protective clothing.
 - (1) M9 or M17 series protective gas mask or SCBA.
 - (2) Permeable coveralls.
 - (3) Protective gloves.
- b. Approach from upwind and extinguish the fire.
- c. Decontamination may be required.

**WHITE PHOSPHOROUS (WP) - PRIMARY HAZARD "SPONTANEOUSLY FLAMMABLE
WHEN EXPOSED TO AIR"**

- a. Use the following protective clothing.
 - (1) M9 or M17 series protective gas mask or SCBA.
 - (2) Flame resistant coveralls.
- b. Post a fire guard until leaking WP has been removed.
- c. After removal of agents, post a fire guard for 48 hours for possible re-ignition.
- d. Use a putty knife to remove small amounts, then use a blowtorch to burn off the remainder.

HC SMOKE - PRIMARY HAZARD "HIGH CONCENTRATION OF SMOKE"

- a. Personnel must use a protective mask that prevents smoke inhalation.
- b. Do not use water to fight the fire.

ORDNANCE SAFETY PRECAUTIONS

**INCENDIARY/PYROTECHNIC MATERIAL - PRIMARY HAZARD
"EXTREMELY HIGH TEMPERATURE"**

- a. Personnel must use a protective mask that prevents smoke inhalation.
- b. Do not use water to fight the fire.
- c. Do not look at the material.

SIGNALING SMOKE - PRIMARY HAZARD "HIGH CONCENTRATION OF SMOKE"

- a. Personnel must use a protective mask that prevents smoke inhalation.
- b. Prevent the spread of fire.
- c. Smother incipient fires with dry chemical from portable fire extinguishers or cover with sand.

APPENDIX C

Radio Frequency Net

| | Crash Emergency 140.025 | Ground VHF 140.1 | Ground UHF 380.8 | PMO TAC 1 140.35 | PMO Talk Around | SAR FREQ UHF 282.8 | Naval Hospital | Fire Dept | Civilian Hospitals (EMS) | NC Highway Patrol | Craven Co. Sheriff | Craven Co. Fire | Carteret Co. Dispatch |
|--------------------------------|-------------------------|------------------|------------------|------------------|-----------------|--------------------|----------------|-----------|--------------------------|-------------------|--------------------|-----------------|-----------------------|
| CRASH RESCUE | | | | | | | | | | | | | |
| Command Vehicle | X | X | | X | | | X | X | | | | | |
| P-19 Vehicles | X | X | | | | | | | | | | | |
| SAR HELO | X | X | X | | | X | | | | | | | |
| FIRE DEPARTMENT | | | | | | | | | | | | | |
| Command Vehicle | X | X | | X | X | | X | X | | | | X | X |
| Other Vehicles | X | X | | | X | | | | | | | | |
| NAVAL HOSPITAL | | | | | | | | | | | | | |
| Main Desk | X | X | | X | X | | X | X | X | | | | |
| Ambulances | | X | | X | | | | X | X | | | | |
| Emergency Room | | | | | | | | | X | | | | |
| PRCVOST MARSHALL OFFICE | | | | | | | | | | | | | |
| Desk Sgt | X | X | | X | X | | X | X | | X | X | X | X |
| Vehicles | | X | | X | X | | | | | | | | |
| EOD | X | X | | X | | | | | | | | | |
| CONTROL TOWER | X | X | X | | | X | | | | | | | |
| CRASH PHOTO | X | X | | | | | | | | | | | |
| BOAT DOCKS | | | | X | X | | X | X | | | | | |

* PMC has capability to contact any emergency service in eastern N.C.