



Marine Corps Systems Command

Environmental and Explosives Safety Evaluation Guide

EOD



EVG-EOD-002 Sep 22

Program 1: ES Administration/Management

Element 01 - Explosives Safety Management

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|---|---------------------|-------------|------------------------|---------------------|
| 10106 | Does the Activity/Command conducting ammunition or explosives operations have on file an up-to-date set of ordnance publications, technical manuals, safety manuals, instructions, and other pertinent data that cover all ordnance material, ammunition and ammunition components applicable to that activity? | MCO 5100.29C Vol 8 | 9 | 0904 | []Yes []No []N/A |
| | | NAVSEA OP 5 Vol 1 | 1 | 1-5.2.1 | |
| 10114 | Are all certified inert ordnance items properly identified and marked with a serial number containing the unit identification code (UIC) or reporting unit code (RUC) of the EOD unit where the item was certified inert, and a unique number? | MCO 5100.29C Vol 8 | 2 | 0205.B | []Yes []No []N/A |
| | | NAVSEA OP 5 Vol 1 | 2 | 2-1.4.7.c | |
| 10115 | Have ordnance items that have been rendered inert by removal of explosive material and used for museum displays, training or other purposes been properly certified as inert by Explosive Ordnance Disposal personnel? Are the minimum data requirements of the certification met? | MCO 5100.29C Vol 8 | 2 | 0205.a.5 thru 0205.a.7 | []Yes []No []N/A |

Element 03 -Emergency Management/Fire Plans/Maps

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|---------------------|-------------|--------------------------|---------------------|
| 10305 | Is the Activity/Commands Fire Bill posted conspicuously throughout the Activity/Commands, including the magazine area, and are the Fire Bills reviewed/updated semiannually? | NAVSEA OP 5 Vol 1 | 4 | 4-3.1.1 | []Yes []No []N/A |
| 10306 | Does the General Fire Bill have the minimum required instructions in the event of a fire? | NAVSEA OP 5 Vol 1 | 4 | 4-3.1.1.a thru 4-3.1.1.1 | []Yes []No []N/A |

Element 04 - Safety Equipment/Fire Protection

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|---------------------|-------------|------------------|---------------------|
| 10406 | Is fire protection/fire fighting equipment in good order and inspected at the correct periodicity? | NAVSEA OP 5 Vol 1 | 4 | 4-1.5 | []Yes []No []N/A |



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|-------|---|-------------------|---|--------------|--|
| 10407 | Does the installed fire protection/fire fighting equipment meet the requirements for the material stored/processed therein? | NAVSEA OP 5 Vol 1 | 4 | 4-3.6, 4-3.9 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |
|-------|---|-------------------|---|--------------|--|

| | | | | | |
|-------|--|-------------------|---|---------|--|
| 10408 | Is the "no articles of adornment" rule enforced in locations where explosive materials are exposed, equipment is being operated or where material is being physically handled? | NAVSEA OP 5 Vol 1 | 2 | 2-4.9.1 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |
|-------|--|-------------------|---|---------|--|

Element 07 - Explosives Safety Training

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|--|--------------------|------|-----------|--|
| 10708 | Have Unit/Tenant commanders (Regimental/Squadron or higher), having an explosives mission , appointed a unit Explosives Safety Representative (ESR)? | MCO 5100.29C Vol 8 | 8 | 0806 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |

Program 2: Facility Certification/Master Planning

Element 02 - Site Compliance

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|---|-------------------|------|-----------|--|
| 20201 | Have all Potential Explosion Sites (PESs) been assigned NAVFACENGCOM building numbers if required? Is that number at least 6 inches high? | NAVSEA OP 5 Vol 1 | 8 | 8-8.1 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |

Program 4: A&E Standard Operating Procedures

Element 01 - Development

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|--|--------------------|------|--------------------|--|
| 40101 | Are all new SOPs and any major changes to existing SOPs maintained in accordance with the latest instruction? | MCO 5100.29C Vol 8 | 10 | 1002.A | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |
| 40102 | Do all activities have written standard operating procedures prior to starting operations involving ammunition or explosives (A&E)? | MCO 5100.29C Vol 8 | 10 | 1002 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |
| | | NAVSEA OP 5 Vol 1 | 2 | 2-1.1 | |
| 40103 | Did the development, review and validation of the SOP(s) take place prior to the Commanding Officer's (or designated representative) approval? | MCO 5100.29C Vol 8 | 10 | 1005.C.1, 1005.C.2 | [<input type="checkbox"/>]Yes [<input type="checkbox"/>]No [<input type="checkbox"/>]N/A |



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|-------|---|--------------------|----|--------------|---------------------|
| 40105 | Is the Operational Risk Management processes conducted, and are the results of hazard analysis/risk assessments used as a basis for developing the SOP? Are the results included as an element of the SOP? | MCO 5100.29C Vol 8 | 10 | 1005.G | []Yes []No []N/A |
| 40106 | Do SOPs provide personnel with the procedures necessary to maintain physical security, accountability and disposition control of A&E, MPPEH, and/or MEC? | MCO 5100.29C Vol 8 | 10 | 1005.I.8 | []Yes []No []N/A |
| 40107 | Are supervisors overseeing the performance of SOP validations with the necessary workers/operators and other personnel to ensure complete understanding at all levels? | MCO 5100.29C Vol 8 | 10 | 1005.C.2.b | []Yes []No []N/A |
| 40108 | Did supervisors and workers/operators, before initial use, conduct a validation of applicable sections of the SOP, or whenever there was a major change to the operation, process, or facility? | MCO 5100.29C Vol 8 | 10 | 1005.C.2 | []Yes []No []N/A |
| 40109 | Are validations documented, signed, and dated by personnel performing the validation? | MCO 5100.29C Vol 8 | 10 | 1005.C.2.c | []Yes []No []N/A |
| 40110 | Are SOPs reviewed prior to initial use by personnel responsible for the technical requirements? | MCO 5100.29C Vol 8 | 10 | 1005.C.1.a.1 | []Yes []No []N/A |
| 40111 | Are SOPs reviewed by personnel who are responsible for support of the process in accordance with sections of the SOP, including mishap responses? | MCO 5100.29C Vol 8 | 10 | 1005.C.1.a.2 | []Yes []No []N/A |
| 40112 | Are SOPs reviewed by occupational safety and health, medical (e.g., industrial hygiene), and environmental personnel (if the process involves or may potentially involve any applicable procedures)? | MCO 5100.29C Vol 8 | 10 | 1005.C.1.a.3 | []Yes []No []N/A |
| 40113 | Are SOPs reviewed by the designated host command ESO and/or tenant ESO (if formal host/tenant agreement is in place)? | MCO 5100.29C Vol 8 | 10 | 1005.C.1.a.4 | []Yes []No []N/A |
| | | NAVSEA OP 5 Vol 1 | 1 | 1-4.4.1.e | |
| 40115 | Does the activity have required SOPs that cover A&E handling, storage, and transportation operations not conducted in accordance with technical directives, approved checklists, or Field Manuals (i.e. Storage, Issue/Receipt, Assembly Area, Container Operations, Pier Operations, VERTREP etc.) where applicable? | MCO 5100.29C Vol 8 | | 1002.a | []Yes []No []N/A |



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Element 02 - SOP Content Requirements

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|---------------------|-------------|------------------|---------------------|
| 40201 | Does the SOP contain a Title Page that includes a unique copy control number for SOP tracking and version control? | MCO 5100.29C Vol 8 | 10 | 1005.A | []Yes []No []N/A |
| 40202 | Does the SOP contain a Record of Changes? | MCO 5100.29C Vol 8 | 10 | 1005.B | []Yes []No []N/A |
| 40203 | Does the SOP contain a Record of review, validation, and approval which provides signatures and dates of person(s) who developed, reviewed, validated, and approved the SOP? | MCO 5100.29C Vol 8 | 10 | 1005.C | []Yes []No []N/A |
| 40204 | Does the SOP contain a Table of Contents? | MCO 5100.29C Vol 8 | 10 | 1005.D | []Yes []No []N/A |
| 40205 | Does the SOP contain a the Supervisor's Statement with areas for signature and date? | MCO 5100.29C Vol 8 | 10 | 1005.E.1 | []Yes []No []N/A |
| 40206 | Does the SOP contain a the Worker's Statement with signatures and dates for the worker and supervisor? | MCO 5100.29C Vol 8 | 10 | 1005.E.2 | []Yes []No []N/A |
| 40207 | Does the SOP contain a List of all applicable references? | MCO 5100.29C Vol 8 | 10 | 1005.F | []Yes []No []N/A |
| 40208 | Does the SOP contain the hazard analysis/risk assessment? | MCO 5100.29C Vol 8 | 10 | 1005.G | []Yes []No []N/A |
| 40209 | Does the SOP contain a Hazard control brief? | MCO 5100.29C Vol 8 | 10 | 1005.H | []Yes []No []N/A |
| 40210 | Does the SOP contain a Clear and concise Step-by-Step procedures? | MCO 5100.29C Vol 8 | 10 | 1005.I | []Yes []No []N/A |
| 40211 | Does the SOP contain Building or site diagram and/or processing diagram if applicable? | MCO 5100.29C Vol 8 | 10 | 1005.J | []Yes []No []N/A |
| 40212 | Does the SOP contain a listing of equipment and supplies (including approved tools, special tools and equipment and supplies) and safety equipment that includes PPE? | MCO 5100.29C Vol 8 | 10 | 1005.K | []Yes []No []N/A |
| 40213 | Does the SOP contain Emergency Procedures? | MCO 5100.29C Vol 8 | 10 | 1005.L | []Yes []No []N/A |



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Element 03 - Review Process

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|---|--------------------|------|------------|---------------------|
| 40301 | Are SOPs reviewed annually with the date documented? | MCO 5100.29C Vol 8 | 10 | 1005.C.4 | []Yes []No []N/A |
| 40302 | Are changes documented and significant changes to procedures reviewed, validated, and approved? | MCO 5100.29C Vol 8 | 10 | 1005.C.5 | []Yes []No []N/A |
| 40303 | After expiration (four years from the date of approval), are SOPs reviewed by all applicable personnel, and contain new approval signatures prior to reissue? | MCO 5100.29C Vol 8 | 10 | 1005.C.6 | []Yes []No []N/A |
| 40304 | Are contractors reviewing SOPs using a similar chain of contractor personnel with a similar scope of authority? | MCO 5100.29C Vol 8 | 10 | 1005.C.1.b | []Yes []No []N/A |
| 40305 | Have all workers/operators and supervisors reviewed and signed the Worker/Operator and Supervisor Statements signifying that they are authorized to work under the SOP or that they are qualified with up-to-date training? | MCO 5100.29C Vol 8 | 10 | 1005.e | []Yes []No []N/A |
| 40306 | Are SOPs continuously reviewed to ensure that they are changed as necessary to reflect current procedures, and changes to reference documents? | MCO 5100.29C Vol 8 | 10 | 1004.a.3 | []Yes []No []N/A |

Element 04 - Implementation

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|--|--------------------|------|------------|---------------------|
| 40401 | Are SOPs and applicable reference publications kept in the work area with the procedures readily available for use by workers/operators performing the process? | MCO 5100.29C Vol 8 | 10 | 1002.B | []Yes []No []N/A |
| 40402 | Are the hazard analysis results a permanent part of the SOP? | MCO 5100.29C Vol 8 | 10 | 1005.H.1 | []Yes []No []N/A |
| 40403 | Are hazard control briefs prepared taking into account the results of the hazard analysis and risk assessment? | MCO 5100.29C Vol 8 | 10 | 1005.H.1 | []Yes []No []N/A |
| 40404 | Are hazard control briefs given to all workers/employees using the SOP prior to initial use? Is the brief given to all visitors and other transients/observers to the A&E, MPPEH or MEC location(s) when required? | MCO 5100.29C Vol 8 | 10 | 1005.H.1 | []Yes []No []N/A |
| 40406 | Do hazard control briefings cover hazardous materials used, consumed, or produced in the process? | MCO 5100.29C Vol 8 | 10 | 1005.H.2.a | []Yes []No []N/A |
| 40407 | Do hazard control briefings cover ways in which exposure to hazards and hazardous materials are avoided or minimized? | MCO 5100.29C Vol 8 | 10 | 1005.H.2.b | []Yes []No []N/A |



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| 40408 | Do hazard control briefings cover signs of unacceptable exposure to the worker/supervisor/visitor, or damage to the equipment, from hazardous materials being processed? | MCO 5100.29C Vol 8 | 10 | 1005.H.2.c | []Yes []No []N/A |
| 40409 | Do hazard control briefings cover first aid or other action to be taken immediately should exposure occur? | MCO 5100.29C Vol 8 | 10 | 1005.H.2.d | []Yes []No []N/A |
| 40410 | Do hazard control briefings cover hazard analysis results? | MCO 5100.29C Vol 8 | 10 | 1005.H.2.e | []Yes []No []N/A |
| 40411 | Do diagrams include the location of safety related items such as fire extinguishers, fire suppression systems, eye wash stations, etc. Do they illustrate explosive and personnel limits, evacuation routes, and emergency exits? | MCO 5100.29C Vol 8 | 10 | 1005.J.1.a | []Yes []No []N/A |
| 40412 | Are applicable compensatory measure contained in site approvals that affect the operation or operating/storage locations involved with the process contained in the SOP? | MCO 5100.29C Vol 8 | 10 | 1005.I.6 | []Yes []No []N/A |

Program 5: A&E Facilities

Element 01 - General A&E Facilities (Mags/RSLs/OBs/RFIs)

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|--|-------------------|------|---|---------------------|
| 50101 | Where different types of A&E are stored together, is storage compatibility maintained? | NAVSEA OP 5 Vol 1 | 3 | 3-9, Table 3-10 | []Yes []No []N/A |
| 50112 | Are empty container requirements being met? | NAVSEA OP 5 Vol 1 | 11 | 11-1.5 | []Yes []No []N/A |
| 50113 | Are magazines/magazine areas inspected prior to initial use/reuse after being empty, and periodically while in use? | NAVSEA OP 5 Vol 1 | 11 | 11-9.1 | []Yes []No []N/A |
| 50114 | Are correct fire division, chemical hazard or fire direction symbols posted outside hazardous materials storage sites? | NAVSEA OP 5 Vol 1 | 4 | 4-4.2.9, Figures 4-3 thru Figure 4-5, Tables 4-1 thru Table 4-3 | []Yes []No []N/A |
| 50115 | Is the quantity of A&E stowed within authorized limits? | NAVSEA OP 5 Vol 1 | 11 | 11-2.2.2 | []Yes []No []N/A |
| 50116 | Are explosive limit signs posted/painted (indicating maximum authorized quantity of explosives permitted by class and division) in all storage locations and related areas? For storage locations that include C/D 1.2.1 or 1.2.3 is an MCE weight posted? | NAVSEA OP 5 Vol 1 | 7 | 7-4.4, 7-4.4.2.1, 7-4.4.3.2 | []Yes []No []N/A |



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|-------|---|-------------------|----|-------------------------------|---------------------|
| 50119 | Are A&E containers clean, dry, and properly marked before being stowed? Are all containers closed and securely fastened? | NAVSEA OP 5 Vol 1 | 11 | 11-1.4.1 | []Yes []No []N/A |
| 50121 | Are flame or spark producing devices prohibited in or around potential explosion sites? Where smoking is allowed are the areas designated and do they meet the requirements of NAVSEA OP 5? | NAVSEA OP 5 Vol 1 | 2 | 2-4.9.5, 4-1.6.1 thru 4-1.6.3 | []Yes []No []N/A |
| 50123 | Are general safety precautions posted or listed in current SOP? Are specific safety precautions posted? | NAVSEA OP 5 Vol 1 | 11 | 11-2.7.2 | []Yes []No []N/A |
| 50137 | Is rough handling of A&E observed? | NAVSEA OP 5 Vol 1 | 10 | 10-1.1.1 | []Yes []No []N/A |
| 50138 | Are privately owned vehicles parked at appropriate distances from potential explosion sites? | NAVSEA OP 5 Vol 1 | 7 | 7-13.13 | []Yes []No []N/A |
| 50145 | Is vegetation within 50 feet of any PES maintained at a height of no more than 18 inches to create a firebreak? Is vegetation within 300 feet of a Detonation Site removed? | NAVSEA OP 5 Vol 1 | 4 | 4-1.10, 13-3.2.1 | []Yes []No []N/A |

Element 02 - Operating Buildings

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|---|---------------------|-------------|-------------------------------|---------------------|
| 50214 | Are there an adequate number of exits and are operations and equipment so arranged that all persons have unobstructed exit paths? | NAVSEA OP 5 Vol 1 | 8 | 8-3.1.5, 8-3.1.5.1, 8-3.1.5.3 | []Yes []No []N/A |
| 50215 | Do exit doors open outward? Are they the correct size and are anti-panic catches provided? | NAVSEA OP 5 Vol 1 | 8 | 8-3.1.5.1 | []Yes []No []N/A |
| 50216 | Are explosives limits posted at all locations where required? | NAVSEA OP 5 Vol 1 | 7 | 7-4.4, 7-4.4.1.2 | []Yes []No []N/A |

Element 03 - A&E Physical Security

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|----------------------|-------------|--------------------|---------------------|
| 50301 | Are AA&E physical security surveys conducted annually? | MCO 5530.14A, ENCL 1 | 3 | 3001.5.a.2 | []Yes []No []N/A |
| 50302 | Do the AA&E physical security surveys include the required information outlined in MCO 5530.14A? | MCO 5530.14A, ENCL 1 | 8 | 8014.1 thru 8014.5 | []Yes []No []N/A |
| 50303 | Are original, signed surveys (paper or electronic copies) maintained for three years? | MCO 5530.14A, ENCL 1 | 3 | 3001.5.12 | []Yes []No []N/A |



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|-------|---|----------------------|-------|--------------------|---------------------|
| 50304 | Is a key control register containing all required information maintained to ensure accountability of keys? Are the registers maintained for at least three years? | MCO 5530.14A, ENCL 1 | | 3005.6, Appendix G | []Yes []No []N/A |
| 50305 | Has an access control custodian been appointed in writing by the head of the functional area (e.g., department head, directorate, etc.)? | MCO 5530.14A, ENCL 1 | 3 | 3005.2 | []Yes []No []N/A |
| 50306 | Does the access control custodian have unaccompanied access or a PIN to AA&E facilities? | MCO 5530.14A, ENCL 1 | 8 | 8010.1 | []Yes []No []N/A |
| 50307 | Are all AA&E safe combinations changed annually or when personnel rotate? | MCO 5530.14A, ENCL 1 | 8 | 8010.1.d | []Yes []No []N/A |
| 50308 | Are all security locks, padlocks, and lock cores designated as high security rotated annually from one location to the another within the same level areas of protection? | MCO 5530.14A, ENCL 1 | 3 | 3005.4 | []Yes []No []N/A |
| 50309 | Are personnel authorized access to AA&E keys designated in writing by the Commanding Officer? | MCO 5530.14A, ENCL 1 | 8 | 8010 | []Yes []No []N/A |
| 50310 | Are keys to Category I and II AA&E items stored in a Class 5 GSA approved security container or equivalent? | MCO 5530.14A, ENCL 1 | 8 | 8010.3.b.1 | []Yes []No []N/A |
| 50311 | Are keys to Category III and IV AA&E stored in containers of at least 12-gauge steel or equivalent? | MCO 5530.14A, ENCL 1 | 8 | 8010.3.b.2 | []Yes []No []N/A |
| 50313 | Has an access control custodian performed semiannual inventories of all keys and log accounts and retained those records for the last three years? | MCO 5530.14A, ENCL 1 | 3 | 3005.2, 3005.6.f | []Yes []No []N/A |
| 50314 | Is a pass, badge, access roster or sign-in/out system used for restricted areas? | MCO 5530.14A, ENCL 1 | 8 | 8008.2 | []Yes []No []N/A |
| 50315 | Are visitor control logs or entry rosters used to track the ingress and egress of visitors and maintained for at least three years? | MCO 5530.14A, ENCL 1 | 8 | 8008.2.a | []Yes []No []N/A |
| 50316 | Are areas containing risk category AA&E posted as restricted areas? | MCO 5530.14A, ENCL 1 | 8 | 8008.1.a | []Yes []No []N/A |
| 50318 | Are keys to AA&E facilities maintained separately from all other racks, containers, and miscellaneous keys? | MCO 5530.14A, ENCL 1 | 8 | 8010.2 | []Yes []No []N/A |
| 50319 | Are AA&E surveillance requirements adhered to according to security risk category? | MCO 5530.14A, ENCL 1 | App K | | []Yes []No []N/A |
| 50320 | Has a strict key and lock security and access control program been established? | MCO 5530.14A, ENCL 1 | 3 | 3005 | []Yes []No []N/A |



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Program 6: LPS/Grounding/Emissions Control

Element 01 - HERO/EMCON

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|----------------------|-------------|-------------------|---------------------|
| 60104 | Are portable and mobile radios properly labeled with the HERO unsafe and HERO susceptible ordnance separation distance as indicated in the HERO survey report? | NAVSEA OP 3565 Vol 2 | 1 | 1-8.2, Figure 1-5 | []Yes []No []N/A |

Element 02 - Grounding System Test Plan

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|---|---------------------|-------------|----------------------|---------------------|
| 60210 | Are ordnance ground systems visually inspected at least every six months and tested at least every 24 months? | NAVSEA OP 5 Vol 1 | 5 | 5-5.4.5.1, 5-5.4.5.2 | []Yes []No []N/A |

Element 03 - Lightning Protection and Grounding Maintenance

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|---|---------------------|-------------|--------------------------|---------------------|
| 60304 | Are ordnance ground systems isolated from all other ground systems and connected by separate and distinct leads to the facility ground girdle at a single point? | NAVSEA OP 5 Vol 1 | 5 | 5-5.4.1 | []Yes []No []N/A |
| 60305 | Are ordnance grounds clearly marked to preclude misidentification? | NAVSEA OP 5 Vol 1 | 5 | 5-5.4.4 | []Yes []No []N/A |
| 60306 | Is fencing properly bonded/grounded to include pedestrian gates and gates where explosives loaded vehicles transit? | NAVSEA OP 5 Vol 1 | 6 | 6-6.3.2 | []Yes []No []N/A |
| 60310 | Is grounding of operators during operations involving handling of exposed explosives, Electro-Explosive Devices (EEDs) and sensitive materials adequate? | NAVSEA OP 5 Vol 1 | 5 | 5-9 | []Yes []No []N/A |
| 60311 | Are all metal masses to ordnance handling, operating and storage facilities considered for side flash, and are they properly grounded/bonded when required? | NAVSEA OP 5 Vol 1 | 6 | 6-6.3 | []Yes []No []N/A |
| 60312 | Are ground rods a minimum of 3/4-inch in diameter, copper or copper-clad steel, a minimum of 8ft in length, a minimum of 10 ft in the ground and a minimum of 2ft below grade unless in a test well (if in a test well the rod shall be a minimum of 10ft)? | NAVSEA OP 5 Vol 1 | 5 | 5-4.1.1.a thru 5-4.1.1.e | []Yes []No []N/A |



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| 60316 | Are commercially built, pre-engineered "portable" magazines/magazine groups properly grounded to provide 25 ohms or less ground resistance? | NAVSEA OP 5 Vol 1 | 6 | 6-8.2.2.1, 6-8.2.2.2 | []Yes []No []N/A |
| 60317 | Are all metal parts of magazines that pose a side-flash hazard properly bonded? | NAVSEA OP 5 Vol 1 | 6 | 6-6.3 | []Yes []No []N/A |
| 60328 | Has criteria been established for terminating A&E operations when required at the approach of a thunderstorm, and do the procedures allow for the termination of operations prior to a storm approaching within ten miles if required? | NAVSEA OP 5 Vol 1 | 6 | 6-10 | []Yes []No []N/A |
| 60329 | Are cables used to connect Ready Service Lockers to ground rods made of AWG No. 1/0 uninsulated copper with strands not less than AWG No. 17? | NAVSEA OP 5 Vol 1 | 5 | 5-4 | []Yes []No []N/A |
| 60330 | Are single portable magazines larger than 25 square feet grounded using a minimum of two separate ground rods, each placed in a different corner? | NAVSEA OP 5 Vol 1 | 6 | 6-8.2.2.1 | []Yes []No []N/A |
| 60332 | Are connector fittings attached so as to withstand a pull test of 200 pounds? Are the fittings of the bolted, welded, high-compression, or crimp type? | NAVSEA OP 5 Vol 1 | 4 | 4.12 | []Yes []No []N/A |
| 60333 | Are all bonding connections and conductor splices unpainted? | NAVSEA OP 5 Vol 1 | 8 | 8.5.4.4 | []Yes []No []N/A |

Program 7: Munition/Environmental

Element 03 - MPPEH

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|---|---|---------|---------------------|---------------------|
| 70301 | Does the installation manage MPPEH in accordance with DoDI 4140.62 (MPPEH)? | MCO 5090.2 Vol 21 | 3 | 0305 | []Yes []No []N/A |
| 70302 | Does the installation ensure that MPPEH or MDEH is not transported or shipped over public transportation routes unless determined safe for transport? | MCO 5090.2 Vol 21 | 6 | 0612.b | []Yes []No []N/A |
| 70304 | Does the installation ensure that explosives safety status of material to be transferred within or released from DoD has been established by either a 100% inspection and another 100% independent reinspection or processing by a DDESB approved means with an appropriate post-processing inspection? | MCO 5090.2 Vol 21 | 3 | 030504 | []Yes []No []N/A |
| 70316 | Does the installation maintain controlled access to areas used to hold MDAS? | MCO 5100.29C Vol 8 NAVSEA OP 5 Vol 1 | 6 13 | 0613 13-15.4.1.6 | []Yes []No []N/A |



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|-------|--|--------------------|----|-----------|---------------------|
| 70317 | Does the installation have a process in place to ensure the proper chain of custody for MDAS? | MCO 5090.2 Vol 21 | 3 | 030513 | []Yes []No []N/A |
| 70318 | Are adequate controls and documented procedures in place to prevent commingling of MPPEH, MDAS, and MDEH? | MCO 5100.29C Vol 8 | 6 | 0611.a | []Yes []No []N/A |
| | | NAVSEA OP 5 Vol 1 | 13 | 13-15.6.1 | |
| 70320 | Does the installation ensure that personnel who inspect, process, or document MPPEH shall be trained in: -Recognition and safe handling of used and unused military munitions and specific types of MPPEH. -Demilitarization and trade security controls and procedures that apply to MPPEH, MDEH, and MDAS that is to be released from DoD control. -Identification, management and processing requirements that may apply to specific types of MPPEH or MDEH. | MCO 5090.2 Vol 21 | 3 | 030507 | []Yes []No []N/A |
| 70349 | Does the installation ensure that empty ammunition/weapon containers are managed as MPPEH until certified as safe? | MCO 5100.29C Vol 8 | 6 | 0610 | []Yes []No []N/A |
| | | NAVSEA OP 5 Vol 1 | 13 | 13-15.10 | |
| 70350 | Does the activity retain legible copies of all documents supporting the explosives safety status of the material as MDAS or MDEH for a minimum of three years? | NAVSEA OP 5 Vol 1 | 13 | 13-15.5.3 | []Yes []No []N/A |
| 70351 | Is all MPPEH certified as MDAS prior to being taken off the range or point of use? | MCO 5100.29C Vol 8 | 6 | 0606.a | []Yes []No []N/A |
| 70352 | Does the activity have written procedures for MPPEH operations covering management, assessment, and documentation requirements? | NAVSEA OP 5 Vol 1 | 13 | 13-15.2.4 | []Yes []No []N/A |
| 70355 | Are personnel who are authorized to inspect MPPEH and document the explosives safety status designated in writing by the CO or responsible individual? Does the letter identify the type of MPPEH the individuals are authorized to inspect and include sample signatures? | MCO 5100.29C Vol 8 | 6 | 0606.c | []Yes []No []N/A |
| 70356 | Is MDAS certified by a 1348-1A or local form as authorized by the CO? Does the certification identify the material type and contain dual signatures? | MCO 5100.29C Vol 8 | 6 | 0607.b | []Yes []No []N/A |



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70356 Is MDAS certified by a 1348-1A or local form as authorized by the CO? Does the certification identify the material type and contain dual signatures? MCO 5100.29C Vol 8 6 0607.b []Yes []No []N/A

Element 04 - Waste Military Munitions

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|---|--------------|-------|-----------|---------------------|
| 70414 | Does the installation treat WMM, other than emergency responses, at locations which are not RCRA permitted? | DoDM 4715.26 | Sec 3 | 3.7.e.1 | []Yes []No []N/A |

Element 05 - Training

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|---|-------------------|------|-----------|---------------------|
| 70506 | Does the installation ensure that personnel who engage in munitions or emergency responses receive the appropriate training? | MCO 5090.2 Vol 21 | 4 | 040503.g | []Yes []No []N/A |
| 70507 | Does the installation ensure that at least one person at each ammunition storage facility (e.g., ASP or station ordnance) and the installation EOD unit have received training that complies with 40 CFR 260? | MCO 5090.2 Vol 21 | 3 | 030201.j | []Yes []No []N/A |

Program 8: AA&E Transportation & Equipment

Element 01 - Motor Vehicle Transportation

| ID# | Evaluation Question | Reference(s) | Chpt | Paragraph | |
|-------|--|------------------------------|------|-----------|---------------------|
| 80101 | Are vehicles used to transport ammunition, explosives and related hazardous material the correct type? | NAVSEA OP 5 Vol 1 | 12 | 12-6.3.1 | []Yes []No []N/A |
| 80103 | Are containers properly secured to prevent shifting during transport? | NAVSEA SW020-AF-HBK-010 | 4 | 4-5.8 | []Yes []No []N/A |
| 80105 | Have persons who certify HAZMAT on shipping papers (i.e., Forms DD Form 2890, Figure 204-11, DOT mandated forms, BL, CBL, and Shipper's Declaration for Dangerous Goods) by any mode of transportation, military or commercial, with the exception of technical specialists (Ammunition Technicians), successfully completed an initial 80-hour classroom certification course from one of the DoD-approved schools? | DTR 4500.9 Part II, Chap 204 | | D.1.B | []Yes []No []N/A |



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|-------|--|---|-------|-----------------|---------------------|
| 80109 | Have inspectors of explosives laden vehicles and railcars completed AMMO-51 (one-time classroom) and refresher training every two years? | NAVSEA OP 5 Vol 1 | App D | D-3.f | []Yes []No []N/A |
| 80114 | Are vehicles used for the transportation of AA&E on-station inspected prior to use? | NAVSEA OP 5 Vol 1 | 12 | 12-6.4.1.b | []Yes []No []N/A |
| | | NAVSEA SW023-AG-WHM-010 | 2 | 2-5 | |
| 80126 | Do DON explosives drivers keep an up-to-date copy “Glove Box” edition of NAVSEA SW020-AF-HBK-010 in DON owned motor vehicles at all times when transporting ammunition, explosives and related hazardous materials? | NAVSEA SW020-AF-HBK-010 | 1 | 1-1 | []Yes []No []N/A |
| | | NAVSEA SW020-AF-HBK-010 Glove Box Edition | | | |
| 80133 | Do all military, DON Civilian, and contract personnel assigned as explosives motor vehicle operators and explosives handlers have the appropriate special duty certification examinations completed at the required periodicity ((2 years for Motor Vehicle Operator (720) and no longer than 5 years for Explosives Handlers (721)))? | NAVSEA SW020-AF-HBK-010 Glove Box Edition | 15 | 2, 3 | []Yes []No []N/A |
| 80134 | Are Military explosives drivers at least 18 years of age or older to operate motor vehicles transporting AA&E on and off-station? | DTR 4500.9 Part II, Chap 204 | | B.3.B.1.A | []Yes []No []N/A |
| 80135 | Have all drivers of explosives laden vehicles met the following requirements: • Ammunition and Explosives Driver 12-Hour Training Course with 4-hour refresher every 2 years • Possess an OF 346 with the following verbiage: Explosives Driver - Must Hold a Current Medical Certificate | NAVSEA OP 5 Vol 1 | App D | D-3.i | []Yes []No []N/A |
| | | NAVSEA SW020-AF-HBK-010 | 2 | 2-2.d, 2-2.e | |
| 80136 | Are all on-base explosives drivers government vehicle operator Identification Card Form 346 annotated with the verbiage “VALID FOR USE ON BASE ONLY”? | NAVSEA SW020-AF-HBK-010 | 2 | Table 2-1 Note3 | []Yes []No []N/A |



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|-------|---|-----------------------------|--|---------|--|---------------------|
| 80137 | Are explosives AA&E drivers Government Vehicle Operator's Identification Card Form 346 issued for no more than two years for non-tactical vehicles and eight years for tactical vehicles? | MCO 11240.118A, Enclosure 1 | | 5.c.1.a | | []Yes []No []N/A |
|-------|---|-----------------------------|--|---------|--|---------------------|

| | | |
|-------------------------|---|-------|
| NAVSEA SW020-AF-HBK-010 | 3 | 3-2.1 |
|-------------------------|---|-------|

| | | | | | | |
|-------|--|-------------------|----|----------|--|---------------------|
| 80139 | Are wheels chocked and brakes set when cargo is being loaded or unloaded from a truck, trailer, or cargo container on a chassis or trailer? Are only approved chocks utilized? | NAVSEA OP 5 Vol 1 | 12 | 12-6.5.1 | | []Yes []No []N/A |
|-------|--|-------------------|----|----------|--|---------------------|

Program 9: A&E Operations

Element 04 - Explosive Ordnance Disposal

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|--|--------------------------|-------------|------------------|---------------------|
| 90402 | Have all EOD personnel been screened annually using NAVMC 11362? | MCO 3571.2H, Enclosure 2 | 2 | 5.a.1 thru 5.a.3 | []Yes []No []N/A |
| 90403 | Is the unit maintaining copies of completed NAVMC 11362 screenings for a period of three years? | MCO 3571.2H, Enclosure 2 | 2 | 5.a.4 | []Yes []No []N/A |
| 90404 | Do all installation EOD personnel, including adjacent command EOD personnel supporting the installation EOD emergency response mission, possess a valid explosives drivers endorsement and an Explosives Motor Vehicle Operator (720) medical examiners certificate? | MCO 3571.2H, Enclosure 2 | 3 | 5.f.3, 5.f.4 | []Yes []No []N/A |
| 90405 | Are installation EOD units afforded a dedicated range for emergency destruction operations? | MCO 3571.2H, Enclosure 2 | 3 | 5.g | []Yes []No []N/A |
| 90406 | Are all explosive ordnance training aids, either manufactured inert or rendered inert by removal of explosive material accounted for on a master inert inventory? | MCO 3571.2H, Enclosure 2 | 3 | 14.b thru 14.d | []Yes []No []N/A |
| | | MCO 5100.29C Vol 8 | 2 | 0205.A.5 | |
| | | NAVSEA OP 5 Vol 1 | 2 | 2-1.4.6 | |



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Program 10: A&E Inventory Management

Element 5 - Class V(W) Inventory Management/Accuracy

| <u>ID#</u> | <u>Evaluation Question</u> | <u>Reference(s)</u> | <u>Chpt</u> | <u>Paragraph</u> | |
|------------|---|---------------------|-------------|------------------|---------------------|
| 100532 | Are Magazine Data Cards (NAVMC 10765A) used for each ammunition lot number stored at the supporting activity (ASP)? Do the Magazine Data Cards reflect the correct color and are they accurate? | MCO 4400.201 Vol 7 | 11 | 1103 | []Yes []No []N/A |
| 100533 | Is accountability and inventory supporting documentation retained for 10 years (three years active and seven years archived)? | MCO 4400.201 Vol 7 | 3 | 030402.d | []Yes []No []N/A |