

**North Dakota Department of Environmental Quality  
Public Notice of Opportunity to Comment on Emergency Permit  
for the Minot Air Force Base  
Issued Under the North Dakota Hazardous Waste Management Rules**

The North Dakota Department of Environmental Quality, Division of Waste Management, has issued a temporary emergency permit to:

Department of Defense  
Minot Air Force Base  
5 CES 445 Peacekeeper Place  
Minot AFB, ND 58705

Background

Minot Air Force Base is a military installation supporting the nation's defense. Minot Air Force Base has applied for a temporary emergency permit to conduct open detonation of waste military munition. The reason for this request is Minot Air Force Base does not have a permitted open burning/open detonation unit to dispose of waste military munitions or other reactive wastes. The waste material was determined not safe for shipment and not to be put in public transportation system. Minot Air Force Base has a corrective action only permit regulated under the Hazardous Waste Management rules. This permit expires on November 30, 2029.

The North Dakota Department of Environmental Quality is issuing to Minot Air Force Base a temporary emergency permit for a duration of 90 days starting on April 1, 2025, and meeting the requirements of the North Dakota Hazardous Waste Management Rules. Therefore, an Emergency Permit with appropriate conditions according to the requirements of Chapters 33.1-24-06 and 33.1-24-07 of the North Dakota Administrative Code has been prepared and is available for comments.

Public Comment and Hearing

Those wishing to provide comments, or request a hearing, on the permit should notify the North Dakota Department of Environmental Quality, in writing, by May 16, 2025. Comments should be sent to:

Derek Kannenberg, Manager  
Hazardous Waste Program  
North Dakota Department of Environmental Quality  
Division of Waste Management  
4201 Normandy Street  
Bismarck, ND 58503-1324

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4201 Normandy Street | Bismarck ND 58503-1324 | Fax 701-328-5200 | [deq.nd.gov](http://deq.nd.gov)

Director's Office  
701-328-5150

Division of  
Air Quality  
701-328-5188

Division of  
Municipal Facilities  
701-328-5211

Division of  
Waste Management  
701-328-5166

Division of  
Water Quality  
701-328-5210

Division of Chemistry  
701-328-6140  
2635 East Main Ave  
Bismarck ND 58501

The Permit and background documents may be reviewed at the North Dakota Department of Environmental Quality at the address listed above and the Division of Waste Management's website:

<https://deq.nd.gov/wm/PublicNotices/default.aspx>

The Permit and background documents are also located at the Minot Public Library 516 2<sup>nd</sup> Ave. SW Minot, ND 58701.

For additional information or special accommodations, please contact the North Dakota Department of Environmental Quality Hazardous Waste Program at 701-328-5166 or by email at [filunga@nd.gov](mailto:filunga@nd.gov).

The NDDEQ will consider every request for reasonable accommodation to provide an accessible meeting facility or other accommodation for people with disabilities, language interpretation for people with limited English proficiency (LEP), and translations of written material necessary to access programs and information. Language assistance services are available free of charge to you. To request accommodations or language assistance, contact the NDDEQ Non-discrimination/EJ Coordinator at 701-328-5150 or [deqEJ@nd.gov](mailto:deqEJ@nd.gov). TTY users may use Relay North Dakota at 711 or 1-800-366-6888.

**Emergency Hazardous Waste Permit HW-2501**  
**for**  
**Department of Defense**  
**Minot Air Force Base**  
**EPA ID. No. ND4571924758**

Pursuant to Chapter 23.1-04 (Hazardous Waste Management Act) of North Dakota Century Code (NDCC) and Article 33.1-24 (Hazardous Waste Management Rules) of the North Dakota Administrative Code (NDAC), a temporary emergency permit is hereby issued by the North Dakota Department of Environmental Quality (the Department) to the Department of Defense (hereafter called the Permittee), Minot Air Force Base (MAFB) (hereafter referred to as the Facility), Site ID No. ND4571924758, to conduct emergency treatment activities at MAFB in Ward County, ND.

The Permittee must comply with all the terms and conditions of this permit. The terms and conditions consist of those contained in Module I through II, any relevant submissions required by this permit, and any applicable rules contained in NDAC Article 33.1-24. This permit is based on the premise that the information submitted in the request for a one-time temporary permit and accompanied attachments received by the Department on February 12, 2025, is accurate. Any inaccuracies or misrepresentations identified in the submitted emergency notification, any submissions, or in other documents, may be grounds for termination of this permit in accordance with NDAC § 33.1-24-06-12 and 33.1-24-06-13. The Permittee must inform the Department of any deviations from, or changes in operations that would affect the Permittee's ability to comply with the applicable rules or permit conditions.

This permit is in effect as of April 1, 2025, and shall remain in effect for a period of ninety (90) days as allowed in NDAC § 33.1-24-06-19.

  
\_\_\_\_\_  
Signature

3/17/25  
Date

Charles R. Hyatt, Director  
Division of Waste Management

# Table of Contents

<b>Module I Standard Conditions .....</b>	<b>5</b>
Effect of Permit.....	5
I.A. Permit Actions .....	5
I.A.1. Ineligible for Renewal, Modification, or Reissuance. ....	5
I.A.2. Permit Revocation.....	5
I.B. Severability .....	5
I.C. Duties and Requirements.....	6
I.C.1. Duty to Comply.....	6
I.C.2. Need to Halt or Reduce Activity.....	6
I.C.3. Duty to Mitigate .....	6
I.C.4. Proper Operation and Maintenance .....	6
I.C.5. Duty to Provide Information.....	6
I.C.6. Inspection and Entry .....	7
I.C.7. Monitoring and Records .....	7
I.C.8. Signatory Requirement.....	8
I.C.9. Reporting Requirements .....	8
I.C.10. Transfers .....	8
I.C.11. Twenty-Four Hour Reporting .....	8
I.C.12. Other Noncompliance.....	9
I.C.13. Other Information.....	9
I.D. Definitions.....	9

- I.E. Reports, Notifications and Submissions to The Department ..... 10
- I.F. Documents to be Maintained at the Facility..... 10
  - I.F.1. Waste Analysis Plan..... 10
  - I.F.2. Closure Plan..... 10
  - I.F.3. Operating Record..... 10
  - I.F.4. Permit Copy..... 10
  - I.F.5. Other Documents..... 10

**Module II Emergency Permit Conditions ..... 11**

- II.A. Applicability..... 11
- II.B. Definitions..... 11
- II.C. Requirements for OB/OD Units ..... 11
  - II.C.1. Ambient Air Monitoring ..... 11
  - II.C.2. Time of Detonation ..... 11
  - II.C.3. Appropriate Weather Conditions..... 12
  - II.C.4. Minimum Separation Distance..... 12
  - II.C.5. Post-Treatment Maintenance..... 12
- II.D. Design and Operation of Unit..... 12
  - II.D.1. Additional Investigation ..... 12
  - II.D.2. Noise and Vibration Minimization..... 12
  - II.D.3. Number of Events ..... 13
- II.E. Imminent Hazards..... 13
- II.F. Plan, Records, and Reporting Requirements ..... 13
  - II.F.1. Department Approval of Plans and Reports..... 13
  - II.F.2. Environmental Media Monitoring..... 13

II.F.3. Environmental Media Monitoring Reports..... 13  
II.F.4. Notification of Activity ..... 14  
II.F.5. Submissions..... 14

**Attachment A: Request for Emergency Permit ..... 15**

## Module I Standard Conditions

### Effect of Permit

This Permit is issued under the emergency permit conditions described in North Dakota Administrative Code (NDAC) 33.1-24-06-19. Under this emergency permit, the Permittee is allowed to conduct open burning/open detonation (OB/OD) activities in accordance with the terms and conditions listed herein. Compliance with this permit constitutes compliance, for purposes of enforcement, with North Dakota Century Code (NDCC) 23.1-04 and NDAC Article 33.1-24 except for those requirements not included in the permit which become effective by statute or which are promulgated.

Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations.

Compliance with the terms of this permit (NDAC § 33.1-24-06-10) does not constitute a defense to any order issued or any action brought under NDCC 23.1-04, NDAC § 33.1-24, Sections 3008(a), 3007, 3013, 3004(v), 3008(c) or Section 7003 of Resource Conservation and Recovery Act (RCRA), Sections 104, 106(a), 106(e), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq., commonly known as CERCLA), or any other law providing for protection of public health or the environment.

### I.A. Permit Actions

#### *I.A.1. Ineligible for Renewal, Modification, or Reissuance.*

This permit is issued under the terms for an emergency permit, and is therefore ineligible for renewal, modification, or reissuance under NDAC § 33.1-24-06-12 and 33.1-24-06-14.

#### *I.A.2. Permit Revocation*

This permit may be revoked prior to the permit termination date if activities are completed before the permit termination date, permitted activity ceases or is no longer necessary, or if there is cause for termination as described in NDAC § 33.1-24-06-13.

### I.B. Severability

The provisions of this permit are severable, as specified in NDAC § 33.1-24-07-12, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

## **I.C. Duties and Requirements**

### *I.C.1. Duty to Comply*

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the NDCC and is grounds for enforcement action or permit termination.

### *I.C.2. Need to Halt or Reduce Activity*

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit (NDAC § 33.1-24-06-04(3)).

### *I.C.3. Duty to Mitigate*

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are reasonable to prevent any adverse impacts on human health or the environment (NDAC § 33.1-24-06-04(4)).

### *I.C.4. Proper Operation and Maintenance*

The Permittee shall at all times properly operate and maintain all facilities, systems and related appurtenances which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance include effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit (NDAC § 33.1-24-06-04(5)).

### *I.C.5. Duty to Provide Information*

The Permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit (NDAC § 33.1-24-06-04(8)).



*I.C.6. Inspection and Entry*

The Permittee shall allow the Department, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter at reasonable times upon the Permittee's premises where a regulated activity is located or conducted or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized, any substances or parameters at any location (NDAC § 33.1-24-06-04(9)).

*I.C.7. Monitoring and Records*

Samples and measurements taken for the purposes of monitoring must be representative of the monitoring activity.

The Permittee shall retain, at the facility, records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this permit, the certification required by subdivision i of subsection 2 of Section 33.1-24-05-40 NDAC, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report, certification or application. This period may be extended by the request of the Department at any time and is automatically extended during the course of any unresolved enforcement action regarding this facility (NDAC § 33.1-24-06-04(10)).

Records of monitoring information must include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individuals who performed the sampling or measurements;
- c. The dates analyses were performed;
- d. The individuals who performed the analyses;

- e. The analytical techniques or methods used; and
- f. The results of such analyses.

*I.C.8. Signatory Requirement*

All applications, reports or information submitted to the Department must be signed and certified, as required by NDAC § 33.1-24-06-03 (NDAC § 33.124-06-04(11)).

*I.C.9. Reporting Requirements*

- a. *Planned Changes.* The Permittee shall give notice to the Department, as soon as possible, of any planned physical alterations or additions to the permitted facility (NDAC § 33.1-2406-04(12)(a)).
- b. *Anticipated Noncompliance.* The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements (NDAC § 33.1-24-06.04(12)(b)).

*I.C.10. Transfers*

This permit is non-transferrable.

*I.C.11. Twenty-Four Hour Reporting*

The Permittee shall report to the Department any noncompliance with this permit which may endanger human health or the environment.

Any noncompliance information shall be reported orally within twenty-four hours from the time the Permittee becomes aware of the circumstances. The following shall be included as information which must be reported orally:

- a. Information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies; and
- b. Any information of a release or discharge of hazardous waste, or of a fire or explosion from the hazardous waste management units, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause must include:
  - 1. Name, address, and telephone number of the owner or operator;
  - 2. Name, address, and telephone number of the facility;

3. Date, time, and type of incident;
4. Name and quantity of materials involved;
5. The extent of injuries, if any;
6. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
7. Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission must also be provided within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission must contain a description of the noncompliance and its cause; the period(s) of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

The Department may waive the five-day written notice requirement in favor of a written report within fifteen (15) days (NDAC § 33.1-24-06-04(12)(f)).

#### *I.C.12. Other Noncompliance*

The Permittee shall report all other instances of noncompliance, not otherwise required to be reported above, at the time written reports required by this permit are submitted. The reports shall contain the information listed in Permit Module I.C. 11. as appropriate (NDAC § 33.1-24-06-04(12)(g)).

#### *I.C.13. Other Information*

Where the Permittee becomes aware that the Permittee failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, the Permittee shall promptly submit such facts or information (NDAC § 33.1-24-06-04(12)(k)).

### **I.D. Definitions**

For purpose of this permit, terms used herein shall have the same meaning as those in NDCC Chapter 23.1-04, and NDAC Chapters 33.1-24-01, -02, -05, and -06 unless this permit specifically provides otherwise. Where terms are not defined in the regulation, the permit or EPA guidelines or publications, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific

or industrial meaning of the term. "Department" means the North Dakota Department of Environmental Quality or authorized representative.

**I.E. Reports, Notifications and Submissions to The Department**

All reports, notifications or other submissions which are required by this permit to be sent or given to the Department should be sent by certified mail or given to:

Derek Kannenberg, Hazardous Waste Program  
North Dakota Department of Environmental Quality  
4201 Normandy Street  
Bismarck, ND 58503-1324

**I.F. Documents to be Maintained at the Facility**

The Permittee shall maintain at the facility, until closure of the regulated waste management units is completed and certified by an independent, registered professional engineer, the following documents and all amendments, revisions, and modifications to these documents:

*I.F.1. Waste Analysis Plan*

A waste analysis plan as required by NDAC § 33.1-24-05-04(2) and this permit.

*I.F.2. Closure Plan*

A closure plan as required by NDAC § 33.1-24-05-61(1) and this permit.

*I.F.3. Operating Record*

An operating record as required by NDAC § 33.1-24-05-40(1) and this permit.

*I.F.4. Permit Copy*

A copy of this permit with attachments.

*I.F.5. Other Documents*

All other documents required by this permit.

## **Module II Emergency Permit Conditions**

### **II.A. Applicability**

The conditions of this Module apply to the OB/OD unit identified in Attachment A and the wastes identified therein.

### **II.B. Definitions**

1. "OB/OD" means open burning/open detonation as a treatment of waste explosives which cannot safely be disposed of through other modes of treatment.
2. "Detonation" is an explosion in which chemical transformation passes through the material faster than the speed of sound (0.33 kilometers per second).
3. "Military" means the U.S. Department of Defense.
4. "Hazardous constituent" means any constituent identified in Appendix V of Chapter Two of NDAC Article 33.1-24, or Appendix VII of Chapter Five of NDAC Article 33.1-24.
5. "Release", for the purposes of this permit, has the same definition as disposal found in NDAC § 33.1-24-01-04(40), and further includes any escaping or leaching of material into the environment from any solid or hazardous waste, or hazardous constituents.
6. "Unit" means, for the purposes of this permit, an area or enclosed device used for the treatment of reactive wastes through OB/OD activities.

### **II.C. Requirements for OB/OD Units**

#### *II.C.1. Ambient Air Monitoring*

The Permittee shall monitor and record atmospheric conditions during open detonation events. These conditions include approximate windspeed and direction, as well as monitoring for any expected emissions of hazardous materials.

#### *II.C.2. Time of Detonation*

The Permittee shall only conduct the open detonation event during daytime hours.

*II.C.3. Appropriate Weather Conditions*

The Permittee shall not conduct open detonation event on high wind day, on north wind day, under precipitation or cloudy conditions.

*II.C.4. Minimum Separation Distance*

The minimum distance from the OB/OD unit to occupied units or potential receptors shall be 670 feet.

*II.C.5. Post-Treatment Maintenance*

The Permittee shall conduct routine maintenance standards after the event including removal of residues, kickout, and visible surface contamination from the unit and surrounding area.

**II.D. Design and Operation of Unit**

The Permittee shall maintain and operate the hazardous waste management units to minimize the possibility of a fire, explosion or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil or surface water which could threaten human health or the environment, as required by NDAC § 33.1-24-05-15.

The Permittee shall notify the Department, in writing, of any newly discovered release(s) of hazardous waste or hazardous constituents within fifteen (15) calendar days of discovery. The notification shall include pertinent information regarding the release, including the location and extent of the release, the volume of material released, the type of hazardous waste and/or constituents released, the time and duration of the release, activities performed to contain and control the release, and the volume of the release recovered. In addition, an assessment of the actual and potential impacts of the releases on human health and the environment should also be provided.

*II.D.1. Additional Investigation*

If the Department determines additional investigation of the unit is needed, the Permittee shall be required to prepare a plan for such investigation.

*II.D.2. Noise and Vibration Minimization*

The Permittee shall implement mitigation measures to minimize noise and ground vibration that can affect areas outside the facility boundary.

### *II.D.3. Number of Events*

The Permittee is issued this permit to conduct only one disposal event composed of four detonations (shot) to treat the material identified in Attachment A.

### **II.E. Imminent Hazards**

The Permittee shall report to the Department any imminent or existing hazard to public health or the environment from any release of hazardous waste or hazardous constituents. Such information shall be reported orally within 24 hours from such time as the Permittee becomes aware of the circumstances, as specified under **Permit Condition I.C.11**. A written report shall also be provided to the Department within fifteen calendar days of the time the Permittee becomes aware of the circumstances. The written report shall contain all information specified in **Permit Condition I.C.11(c)**.

### **II.F. Plan, Records, and Reporting Requirements**

#### *II.F.1. Department Approval of Plans and Reports*

All reports of inspection, plans and routine maintenance cleanup after conducting OB/OD emergency response activities shall be submitted to the Department for review and approval. The Permittee shall revise all submittals and schedules as specified by the Department.

#### *II.F.2. Environmental Media Monitoring*

The Permittee shall develop strategies to conduct soil, sediment, surface water, stormwater and air monitoring as appropriate for the conditions existing during the detonation event. Monitoring strategies include plans for sampling, analysis, evaluation, reporting, and appropriate response actions. Monitoring strategies must address the principal products, constituents, byproducts, and other releases to the environment specific to the wastes treated in the OB/OD unit that have the potential to migrate outside the unit boundary and adversely affect the public and the environment.

#### *II.F.3. Environmental Media Monitoring Reports*

All reports, including a summary report detailing the actions taken when conducting OB/OD activities, shall be submitted to the Department within 30 days of the completion of such activities. Extensions of the due date for submittals may be granted by the Department based on the Permittee's demonstration that sufficient justification for the extension exists.

*II.F.4. Notification of Activity*

When decided, the Permittee shall notify the Department the date and time OB/OD will be conducted. The Permittee must also provide at least 24-hour notice to local emergency services, including fire response, police, and local medical institutions.

*II.F.5. Submissions*

All reports and plans shall be submitted by the Permittee to the Department at the following address:

Derek Kannenberg, Hazardous Waste Program  
North Dakota Department of Environmental Quality  
4201 Normandy Street  
Bismarck, ND 58503-1324



## **Attachment A: Request for Emergency Permit**



**DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 5TH BOMB WING (AFGSC)  
MINOT AIR FORCE BASE NORTH DAKOTA**

Mr. Thomas A. Filkins  
5th Civil Engineer Squadron  
445 Peacekeeper Place  
Minot AFB ND 58705-5006

Mr. Frederick K. Ilunga  
North Dakota Department of Environmental Quality  
4201 Normandy Street  
Bismarck ND 58503-1324

Mr. Ilunga

Minot Air Force Base (AFB) is requesting a one-time, temporary permit to allow installation Explosive Ordnance Disposal (EOD) personnel to conduct an Open Detonation (OD) event of 8.07 pounds of waste military munitions assets (Attach 1) that have been declared Not Safe for shipment in the public transportation system by the Designated Disposition Authority (DDA) assigned to the Demilitarization (DEMIL) Office at Hill AFB, Utah.

Minot AFB munitions personnel determined the assets to potentially still be explosive, but did not pose an imminent and substantial endangerment to human health or the environment. Within Air Force (AF) operating procedures, this is considered a Level 2 response (Attach 2), as the situation does not require an immediate emergency response. All assets are currently managed in a safe and secure AF approved munitions magazine at Minot AFB and are routinely inspected by Minot AFB munitions personnel.

The Not Safe for shipment in the public transportation system determination is based on each asset having a strict set of instructions on how to package munitions based on their explosive characteristics. Each asset in question has their own Special Packaging Instruction (SPI) and are required to be packaged separately from each other, there are no SPIs on how to safely package the assets in their current configuration. There is no single specific document on why the assets are unsafe for transport; numerous asset SPIs and munitions technical manuals/orders (TO) not specific packaging must be accomplished (Attach 3) for transport; because these requirements cannot be met, the DDA has erred on the side of safety and has determined them unsafe for public transport.

Minot AFB EOD personnel have evaluated the assets to discern if alternate technologies could be utilized, however due to the minimal generation of waste military munitions, and the minute amount currently awaiting disposal, Minot AFB does not have the capabilities or cost effectiveness to pursue alternate technologies for disposal/treatment of waste military munitions at this time.

Minot AFB EOD has completed an Explosive Operation Plan (Attach 4) which provides a written description of the disposal actions, including the list of assets, references publications and TOs, personnel and tasks assigned, the break down of which assets will be disposed of during the four different disposal events (shots), a range diagram, and pictures of the assets. The publications and TOs references in the Plan are categorized as Controlled Unclassified Information (CUI) and EOD will not allow the information contained within to be released to the public. The A series documents refer to guidance, recommendations, and techniques that can be utilized/implemented in the protection of personnel and property from the effects of blast overpressure/shock, fragmentation, and heat; but do not refer to the protection of the soil or air. The J & E series are specific EOD procedures for B-52 and Stun Grenades, along with procedures for the post operation reports that EOD must submit to their career field managers. The shot diagrams on the Explosive Operations Plan will be used to draw simplified versions of the complex shot plan.

Prior to the disposal event, EOD personnel will complete a Pre-Operational Safety & Emergency Procedures Assessment & Briefing (Attach 5) which covers tasks to be performed, safety precautions, and emergency procedures. Emergency Procedures, the final page of the document, will be completed prior to the disposal event based on current personnel and weather conditions. Also prior to the event, EOD personnel will notify all emergency response organizations at Minot AFB by completing the Range Notification Checklist (Attach 6). All information will be briefed to essential and non-essential personnel on-site for the event.

The EOD range has dirt filled U-shaped concrete barriers that surround the demolition pit and a personnel bunker as physical control measures to prevent an emergency situation. These barriers are approved by the Department of Defense Explosives Safety Board in accordance with the explosive safety requirements for EOD proficiency ranges. The personnel bunker provides frontal and overhead protection on the range for EOD personnel conducting the disposal event. The shot plans are a procedural control measure, which require C-4 to be placed on top of assets for disposal and detonation initiated from the top down to mitigate hazard and fragmentation distances. The EOD range road will be blocked off to prevent any non-essential personnel from accessing the range during the disposal event.

Minot AFB has completed an Event Waiver (Attach 7) which provides authorization from the 5 Bomb Wing (5 BW) Installation Commander to allow EOD to utilize their training proficiency range as the location for disposal of the assets. A Quantity Distance (QD) analysis, a risk assessment method to determine safe separation distance between explosives and people, was completed using the approved Explosive Siting Software (ESS). The ESS QD Analysis and Drawing (Attach 8 & 9) show no violations to existing facilities, either exposed sites or potential explosion sites. The risk assessment for the event has been determined as low based on the decision nomograph (Attach 10). All other uses of the EOD range will follow normal protocols as a training proficiency range, the event waiver only applies to this single disposal event.

The current EOD proficiency range is part of the Air Force Civil Engineer Center (AFCEC) managed Operational Range Assessment Program (ORAP), which has the primary purpose of ascertaining if Munitions Constituents (MC) are migrating from operational ranges, if such migration poses a risk, and to evaluate the overall health of the range. The Minot AFB EOD

range is on a periodic quantitative assessment (Phase 2) of at least every five years, which encompasses records review, interviews, visual survey, and environmental media sampling; the most recent being accomplished in 2020. The Phase 2 media sampling locations (Attach 11) focuses on MC metals (copper, lead, iron, zinc) and explosives (nitroglycerin [NG] and hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]). During the 2016 and 2020 assessments no off-range MC release or potentially unacceptable risks were identified for impacts to off-range human and ecological receptors. The next Phase 2 assessment of the EOD range is currently scheduled for 2025 and continue periodically every five years.

Thank you for your time and consideration on the current situation. If you require additional information, please do not hesitate to contact me directly at 701-723-1964 or by email at [thomas.filkins.3@us.af.mil](mailto:thomas.filkins.3@us.af.mil).

**FILKINS.THOMAS.** Digitally signed by  
**ANTHONY.12553** FILKINS.THOMAS.ANTHONY.12  
**62344** 55362344  
Date: 2025.02.12 14:02:26  
-06'00'

THOMAS A. FILKINS, GS-13, DAF  
Chief, Environmental Management Element  
5th Civil Engineer Squadron

#### Attachments

1. Military Munitions Asset List
2. DDA\_Asset Disposition – Minot
3. TO 11A-1-10 Extract
4. Explosive Operation Planning Sheet
5. Pre-Op Safety & Emergency Procedures
6. EOD Call Sheet
7. 5 BW CC Event Waiver
8. 2030A Analysis
9. 2030A Drawing
10. Nomograph
11. EOD Range Sample Locations

ADR	DATE	NSN	LOT	NOUN	CC	QTY	ADR_RSN	SECTION	STATUS	HAZ.CLASS	NEW.LBS	NEW.KG
FV45283108162	Apr-23	1377010808252	TAC89D003-103	CTG, ENG STARTER MXU-4/A	H	1	PARTIAL BURN	Conv	Awt EOD	1.3C	8	3.62
FV45283017092	Jan-23	1330014598141	UPC05G001-020	GRN HAND, NON-LETHAL, STUN	P	1	TRNG MISHAP	Insp	Awt EOD	1.4G	0.009	0.004
FV45282042166	Feb-22	1377011288405	MSV16L011-01	Electric Detonator	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4S	0.0008	0.00036
FV45282042158	Feb-22	1377011259407	MSV19A020-001	Initiator, Pressure Act	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4C	0.00025	0.00011
FV45282042150	Feb-22	1377011267690	MSV16H019-001	Generator, Gas	P	3	INADVERTANT IGNITION	Insp	Awt EOD	1.4C	0.01646	0.00747
FV45282042142	Feb-22	1377011259505	MSV19B002-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0124	0.00563
FV45282042134	Feb-22	1377011259502	MSV17G001-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0116	0.00526
FV45282042126	Feb-22	1377011259504	MSV19B002-001	SMDC Line	P	2	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0113	0.00513
FV45282042118	Feb-22	1377011259500	MSV17G001-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0142	0.00644
<b>Total NEW</b>											<b>8.07601</b>	<b>3.6544</b>

**From:** [VANERT, DAVID J CIV USAF AFMC AFLCMC/EBHMB](#)  
**To:** [FILKINS, THOMAS A GS-13 USAF AFGSC 5 CES/CEIE](#)  
**Cc:** [TODD, WILLIAM J NH-03 USAF AFMC AFLCMC/EBHMB](#); [NEID, JOSEPH A NH-03 USAF AFMC AFLCMC/EBH GACP](#)  
**Subject:** RESPONSE//Asset Disposition - Minot  
**Date:** Tuesday, August 9, 2022 7:48:25 AM

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**\*\*Please view in HTML\*\***

Good morning Tom,

Thanks for the added information. In response to the question from State Environmental on how the munitions assets can both be NOT SAFE for off-site shipment, but do not pose an imminent and substantial danger to the environment during storage.

Based on the information we were provided in the Ammunition Disposition Request (ADR), these assets appear to fall into a Level II Emergency Response. Additionally, the Munitions Activity classified the material as Emergency Destruct, requested disposal by Local EOD, and stated they could not determine explosive safety status of the munitions items due to being fused together.

DAFMAN 21-201, 3.12.3.2.

A “Level 2” emergency response (imminent and substantial endangerment response) involves a recovered explosive item that is not immediately dangerous and can be temporarily transported and stored awaiting state notification or permits for local destruction. A Level 2 response does not require DDA approval prior to disposal. When a Level 2 emergency response item is turned over to the MSA for temporary storage, the EOD specialist will annotate “IMMINENT AND SUBSTANTIAL ENDANGERMENT RESPONSE (Level 2)” on the FOB TIN document. (T-1)

When our office provided the initial response to this ADR, we used our canned Local Disposal by EOD (CONUS) response, however, we failed to remove “for training” (required when routine disposal performed by EOD IAW annual training syllabus) from the response. We were contacted by Minot’s EOD and we provided updated disposition instructions via email.

We experience a few examples like this each year where a determination is made by on-scene EOD or through our product team/engineers where the determination/risk assessment is made that material is not safe for shipment, but does not require an immediate response such as Level I Response.

I hope that this answers their question and these assets can be disposed of. If not, please let us know and we will do what we can to assist.

V/r,  
Dave

DAVID VAN ERT, Civ, USAF  
USAF Conventional Munitions DEMIL Program Manager/  
Designated Disposition Authority (DDA)  
Global Ammunition Control Point  
Hill AFB, UT  
DSN: 775-3065

COMM: 801-775-3065

-----Original Message-----

From: FILKINS, THOMAS A GS-13 USAF AFGSC 5 CES/CEIE

<thomas.filkins.3@us.af.mil>

Sent: Monday, August 8, 2022 3:33 PM

To: VANERT, DAVID J CIV USAF AFMC AFLCMC/EBHMB <david.vanert.2@us.af.mil>

Cc: TODD, WILLIAM J NH-03 USAF AFMC AFLCMC/EBHMB

<william.todd.13@us.af.mil>

Subject: RE: Asset Disposition - Minot

Dave,

Attached is an excel of the assets in question for EOD disposal and one of the initial ADRs before the disposition instructions were updated to:

" Reported asset(s) have been declared NOT SAFE for shipment to depot and should be coordinated through your local EOD for treatment/disposal. DO NOT SHIP TO DEPOT OR PLACE IN PUBLIC TRANSPORTATION SYSTEM. If you require further assistance, please contact the GACP Demil Office, DSN 777-6516/775-3065, william.todd.12.ctr@us.af.mil/david.vanert.2@us.af.mil"

All ADRs that I am aware of tied to this are:

ADR-FV45282042118

2126

2134

2142

2150

2158

2166

Thank you for your assistance!

Tom

-----Original Message-----

From: VANERT, DAVID J CIV USAF AFMC AFLCMC/EBHMB

<david.vanert.2@us.af.mil>

Sent: Monday, August 8, 2022 3:15 PM

To: FILKINS, THOMAS A GS-13 USAF AFGSC 5 CES/CEIE <thomas.filkins.3@us.af.mil>

Cc: TODD, WILLIAM J NH-03 USAF AFMC AFLCMC/EBHMB

<william.todd.13@us.af.mil>

Subject: Asset Disposition - Minot

Good afternoon Mr. Filkins,

Can you please provide additional data for the assets you are referencing such as NSN, or nomenclatures? I tried to search our accountable system to see if I could figure out what assets you are referring to. The Ammunition Disposition Number (ADR) will also help us

answer your question, if that is available. We will also be able to verify with the product team/engineers to verify the restriction against off-site shipment.

Note - we periodically have munitions that are determined not safe to ship on public roads but can be safely stored until EOD can perform local disposal. Once we are able to research this more with the requested data, we will be able to provide a thorough/formal response, as requested.

Thanks,

Dave

DAVID VAN ERT, Civ, USAF  
USAF Conventional Munitions DEMIL Program Manager/  
Designated Disposition Authority (DDA)  
Global Ammunition Control Point  
Hill AFB, UT  
DSN: 775-3065  
COMM: 801-775-3065

-----Original Message-----

From: FILKINS, THOMAS A GS-13 USAF AFGSC 5 CES/CEIE  
<thomas.filkins.3@us.af.mil>  
Sent: Monday, August 8, 2022 1:34 PM  
To: william.todd.12.ctr@us.af.mil; VANERT, DAVID J CIV USAF AFMC  
AFLCMC/EBHMB <david.vanert.2@us.af.mil>  
Subject: Asset Disposition - Minot

Sirs,

I am currently working with our State Environmental regulator to provide permitting for local EOD disposal of the fused together ordinance at Minot AFB. The state has asked for clarification on how the munitions assets can both be NOT SAFE for off-site shipment, but do not pose an imminent and substantial danger to the environment during storage. Could you please provide a clarifying statement that I can provide our regulator to ensure we are properly managing our munitions and to move the process of disposition along?

Thank you,

Thomas Filkins  
Chief, Environmental Management



## TECHNICAL MANUAL

# AIR FORCE MUNITIONS SURVEILLANCE PROGRAM AND SERVICEABILITY PROCEDURES

(ATOS-HILL)

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Published under authority of the Secretary of the Air Force

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**7 JULY 2010**

**CHANGE 7 - 21 JULY 2014**

# CHAPTER 1

## PACKAGING

### 1.1 SPECIAL PACKAGING INSTRUCTION (SPI).

SPIs may be obtained through the Special Packaging Instructions Retrieval & Exchange System (SPIRES) or the AFMC Logistics Information Center web sites identified in the List of Related Publications. USAF and supporting activities experiencing difficulties with munitions packaging or preservation procedures should contact 406 SCMS/GULAA, Hill AFB, Utah, DSN 777-8835 or DSN 777-8836, with an information copy to AFLCMC/EBHMB using the GACP Customer Relationship Management (CRM) tool on the GACP web site at <https://www.my.af.mil/wm/>.

- a. SPIs or TO drawings/instructions are required for hazardous materials, explosives, and repairable items, ERRCs C, S or T or ERRC designators XD1, XD2 or ND2. If an item does not fall into one of these categories, it does not require a SPI.
- b. SPIs are typically updated/validated every two years or as internal packaging material changes occur.

### 1.2 PACKAGING INSTRUCTION ORDER OF PRECEDENCE.

SPIs take precedence over item TOs and general packaging procedures.

1.2.1 Inert and Other Non-Hazardous Munitions. For items not defined in paragraph 1.1, step a, there is no order of precedence. SPIs, item TOs, and general packaging procedures may be used. When general packaging procedures are used, items will be maintained in quantity unit pack (QUP), shipping containers will be the same type and dimensions as originally packaged and packaged in a manner that affords adequate protection to prevent damage during storage, handling, and shipment.

### 1.3 GENERAL PACKAGING.

#### NOTE

Personnel will comply with the United Nations (UN) International Standards for Phytosanitary Measures (ISPM) 15 implemented standard restrictions on regulated Wood Packaging Material (WPM). The ISPM 15 standard is specifically concerned with untreated wood that poses significant risk of introducing plant pests (e.g. the pinewood nematode), including pathogens, that can be detrimental to agriculture and to natural, cultivated and urban forest resources.

The following requirements shall be met:

- a. Marking SPI numbers on existing containers/packages for DoD stocklisted items is required in accordance with MIL-STD 129. AFI 24-203 requires the SPI number to be marked on all exterior container when locally fabricating packaging in accordance with a specific SPI.
- b. Items packaged in valid SPIs or POP tested containers need not be repackaged when a SPI changes, unless changed for safety reasons, known as a change "FOR CAUSE". SPIs changed "FOR CAUSE" will be so identified on the SPI separately listed on the SPIRES database. Items changed "FOR CAUSE" must be repackaged prior to shipment. A SPI change "FOR CAUSE" requiring repack is extremely rare.
- c. Originally manufactured containers with POP markings are acceptable as shipment ready. If manufactured containers do not have required POP markings, obtain guidance from 406 SCMS/GULAA, Hill AFB, Utah, DSN: 777-8835/8836.

**2.4 SHIPPING INSPECTION (SI).**

Prepare military air shipments in accordance with AFMAN 24-204(I) and all other shipments in accordance with CFR-49, International Air Transport Association (IATA) and/or other applicable regulations. Protected Cargo shipments will also be processed in accordance with AFMAN 23-110.

**NOTE**

Intransit munitions may be subjected to prolonged unprotected outside storage (depot holding areas, military ocean terminals, etc) while awaiting transportation and/or permanent inside storage. Markings and labels must be applied in a manner suitable for extended use and of a material suitable of withstanding exposure to adverse environmental conditions. Refer to MIL-STD-129 and MIL-PRF-61002 for additional guidance.

- a. Munitions being shipped will be inspected in accordance with the item TO, general inspection procedures, and the following:
  - (1) Check shipping documentation to ensure that munitions being shipped are the same in quantity, description, and condition classification, to include AF Form 191, ADR instruction or equivalent if applicable.
  - (2) Perform a PI, if due within one year.
  - (3) Perform an external check for the following to ensure item(s) is properly configured for shipment:
    - (a) Required DOT/UN and POP markings must be applied to each package.
    - (b) Ensure required handling and hazardous labels are applied.
    - (c) Inspect all inert loaded, empty munitions items, and training/dummy devices to ensure proper identification in accordance with TO 11A-1-53.
    - (d) Other special markings.
- b. Ensure palletization/unitization and banding, when required, have been accomplished in accordance with approved drawings. Items prepared for mobility or shipping purposes may have mixed lots. Pallets with mixed lots will be placarded with lots and quantities. **Ensure items are packaged in accordance with SPI**, Competent Authority Approval (CAA) or Certification of Equivalency (COE), whichever is appropriate for item(s) being shipped. CAAs and COEs may be obtained through the SafetyNet System at <https://eta.sddc.army.mil/ETASSOPortal/SSO/PortalLogout.aspx?app=SAFETYNET>. When marking in accordance with these requirements, cube is determined by the formula LxWxH divided by 1728 (inches).
- c. Multiple ADRs with same NSN, and same “ship-to” location, may be combined and shipped in the same container. All ADR numbers must be marked on container in numerical sequence.
- d. Review shipping documents for accuracy of each lot/serial number and annotate completion of SI by signing the shipping document. Document inspection results in CAS.
- e. Ensure lot and/or serial number historical records, such as, DA 3022-R Depot Surveillance Record (DSR), CAS Lot History Report, TMRS data (i.e., complete maintenance data), or equivalent documents are provided to the receiving organization as follows:
  - (1) Shipments from a CAS SRAN/DODAAC (FVXXXX) to another CAS SRAN/DODAAC: The shipping organization’s CAS Inspection History records are available to the receiving organization in CAS and are not required to accompany the shipment. Place all other historical records in the number one container and mark the container “DOCUMENTS ENCLOSED”
  - (2) Shipments to or from a Non-CAS DODAAC: Regardless of condition code, place one printed copy of the applicable lot/serial number inspection history inside and one copy in a packing list envelope on the outside of the number one container and mark the container “DOCUMENTS ENCLOSED”
  - (3) Shipments of assets loaded in TMRS regardless of origin/destination: Initiate shipment in TMRS and update the departure date when the shipment physically departs station.

## Explosive Operation Plan

**Operation Date:** TBD                      **Operation Time:** TBD

	Name/Signature	Date
<b>Plan Completed By</b>	TSgt Aguilera, Fernando SrA Romaniello, Huntter	05/01/2024
<b>Team Leader</b>	TSgt Aguilera, Fernando	
<b>RSO</b>		
<b>Flight Leadership</b>		
<b>Environmental Management</b>		
<b>Weapon Safety</b>		
<b>Legal</b>		

### Written Description of Operation

This operation pertains to a non-routine request for an Ammunition Disposal Request (ADR). The following explosive items were discovered by Munitions (Muns) personnel, with no prior notification provided to Explosive Ordnance Disposal (EOD) regarding the inadvertent ignition incident, thus precluding an EOD response at the time of occurrence.

Items:

NSN	LOT	Noun	Qty	NEW (lbs)
1377011288405	MSV16L011-01	Electric Detonator	1	0.0008
1377011259407	MSV19A020-001	Initiator, Pressure Act	1	0.00025
1377011267690	MSV16H019-001	Generator, Gas	3	0.01646
1377011259505	MSV19B002-001	SMDC Line	1	0.0124
1377011259502	MSV17G001-001	SMDC Line	1	0.0116
1377011259504	MSV19B002-001	SMDC Line	2	0.0113
1377011259500	MSV17G001-001	SMDC Line	1	0.0142

The Munitions Squadron has formally submitted the ADR request for the items above along with two other items that were deemed “not safe for shipment”. Additional items are listed below:

NSN	LOT	Noun	Qty	NEW (lbs)
1377010808252	TAC89D003-103	CTG, ENG STARTER MXU-4/A	1	8
1330014598141	UPC05G001-020	GRN HAND, NON-LETHAL, STUN	1	0.009

The true net explosive weight (NEW) for the items is unknown due to the inadvertent ignition/partial burn with the exception of the “GRN HAND, NON-LETHAL, STUN”. Items will be treated as “worst case”, and the EOD team will consider the items to be full (their NEW listed in the tables). Additionally, there is minimum information available on the type of explosives within the Shield Mild Detonation Cord (SMDC), Electric Detonator, Gas Generator, Pressure Act Initiator. The EOD team will use the “unknown” (1.40 TNT equivalency) explosive type in the blast frag calculator when calculating fragmentation distances for the Shield Mild Detonation Cord (SMDC), Electric Detonator, Gas Generator, Pressure Act Initiator.

Considering the 5th EOD range's designation solely as a proficiency range, the involvement of weapon safety and environmental management entities is deemed necessary throughout this process. The inventory of items subject to the ADR request, along with images can be found in Attachment 1. The designated disposal site for these items is the EOD range (refer to Attachment 2). The disposal methodology entails the utilization of explosive mitigation procedures, whereby a one-foot excavation will be made, and explosives will be positioned atop the items for subsequent detonation, as per the prescribed procedure outlined in A-1-1-4. Detailed calculations pertaining to explosive quantities are listed within this document.

Publication #	Publication Title
A-1-1-31	(U) GENERAL INFORMATION ON EOD DISPOSAL PROCEDURES
A-1-1-22	(U) GENERAL EOD SAFETY PRECAUTIONS
A-1-1-4	(U) PROTECTION OF PERSONNEL AND PROPERTY
J-2-2-7-2	(U) U.S. AIRCRAFT WEAPONS SYSTEM, B-52H (STRATOFORTRESS)
E-2-2-44	(U) U.S. GRENADE, HAND, NON-LETHAL (STUN), M84

Personnel	Task Assigned
SrA Romaniello	Team Member
TSgt Aguilera	Team Leader
MSgt Baloga	Range Safety Officer
EOD Munitions Section	Explosive Pull (demolition materials and not items that will be disposed) and Transport to Range
5th Muns Personnel	Transport Items (listed in Attachment 1) to the EOD Range
5th EOD Personnel	Support Element

<b>Additional Equipment Needed</b>	
Demolition Kit	
Explosive-Laden Truck	
Bolt Cutters	
Personal PPE	
Shovel	
Rake	
Radios	
Water	

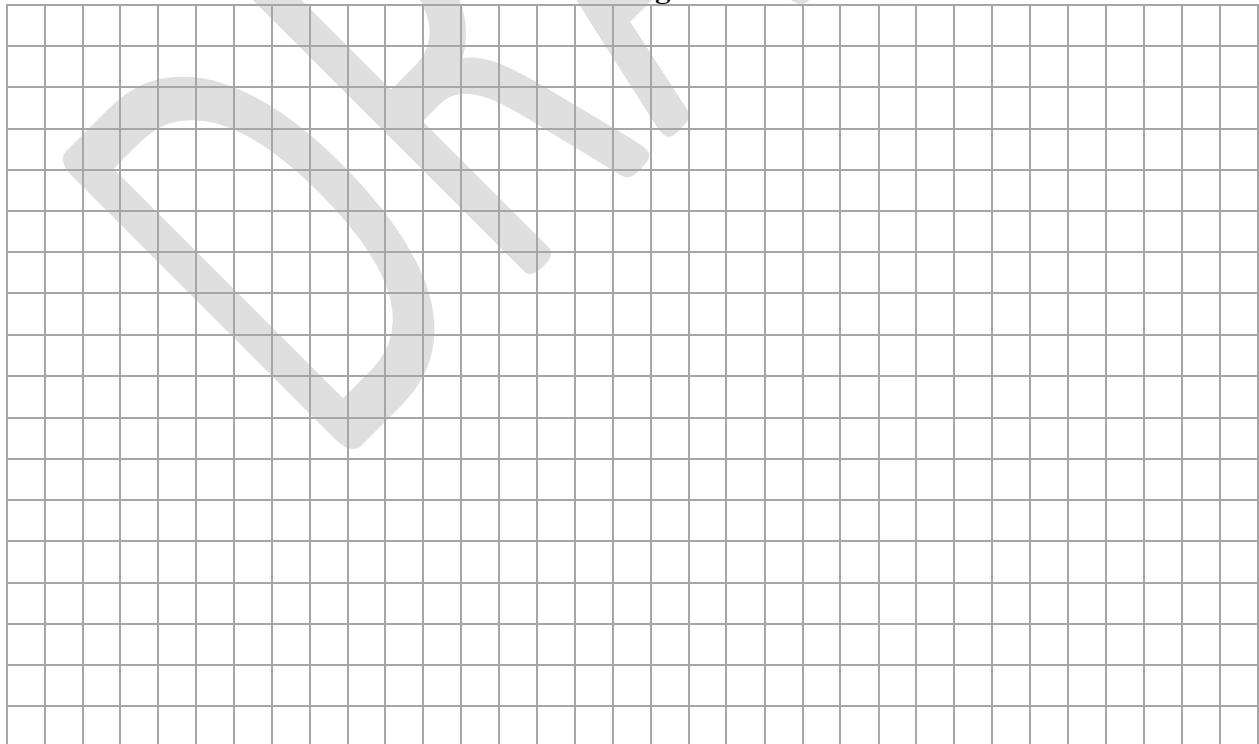
<b>Withdrawal Distances</b>
<b>NON-ESSENTIAL</b> personnel WILL be at the greater of the Maximum Fragmentation Distance Range (MFDR) IAW TDA or K328 w/ 200ft minimum.
<b>ESSENTIAL</b> personnel SHOULD be at the greater of the MFD IAW TDA, OR K328 with 200ft min and be provided frontal and overhead protection

<b>Total Explosives On Range</b>		
<b>Explosive/Ordnance</b>	<b>QTY</b>	<b>NEWQD</b>
CTG, ENG STARTER MXU-4/A	1	8lbs.
GRN HAND, NON-LETHAL, STUN	1	.01lbs.
Electric Detonator	1	.00lbs.*
Initiator, Pressure Act	1	.00lbs.*
Generator, Gas	3	.02lbs.
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
Charge Demolition M112	13	22.26lbs
M6 Electric Blasting Cap	8	N/A
*.00 Single NEWQD per Blast Frag Calculator due to miniscule quantity.		
<b>Total NEWQD on Range = 30.37 lbs.</b>		

<b>Additional Safeties and Controls</b>	
See page 7 of this document.	

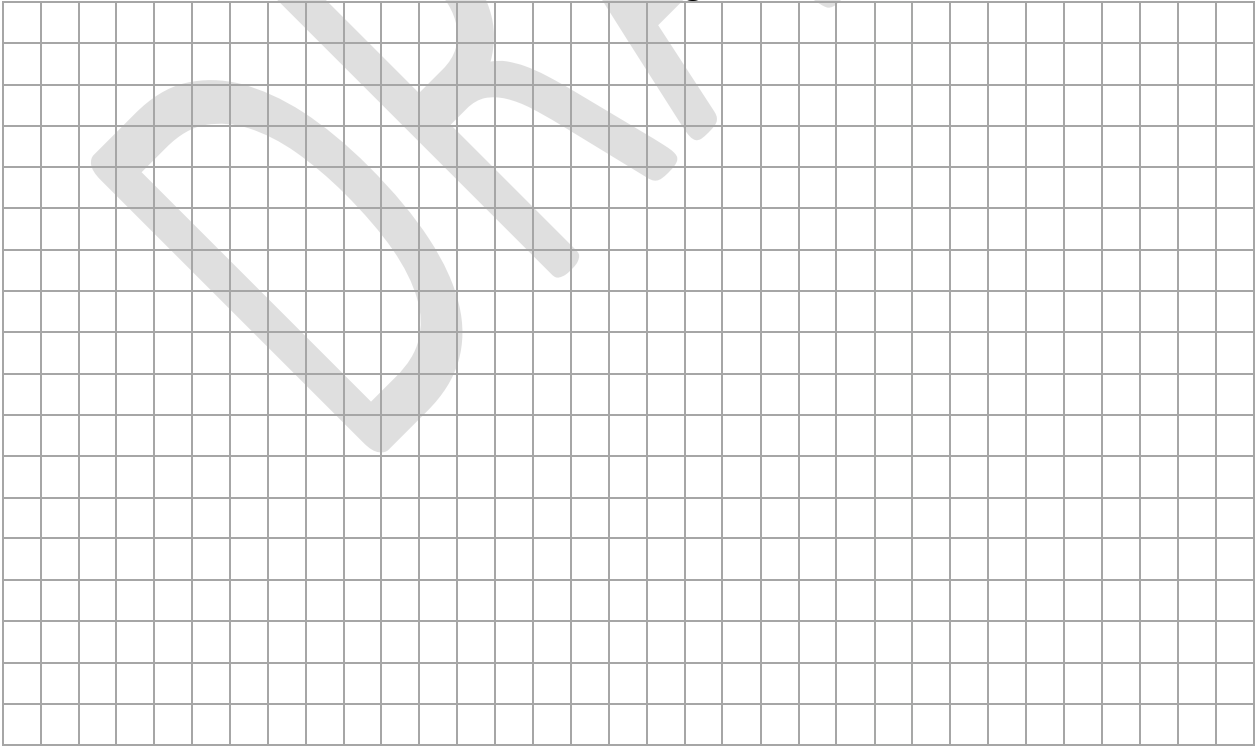
Shot One		
Explosive/Ordnance	QTY	NEWQD
Generator, Gas	3	.02lbs.
Electric Detonator	1	.00*
Initiator, Pressure Act	1	.00*
Charge Demolition M112	3	5.14lbs.
M6 Electric Blasting Cap	2	N/A
*.00 Single NEWQD per Blast Frag Calculator due to miniscule quantity.		
<b>Total NEWQD = 5.16lbs.</b>		
<b>Hazardous Fragmentation Distance Range (HFDR): 265.92ft.</b>		
<b>Maximum Fragmentation Distance Range – Horizontal (MFDR-H): 1,173.89ft.</b>		
<b>Maximum Fragmentation Distance Range – Vertical (MFDR-V): 925.36ft.</b>		
<b>Blast Overpressure Distance Range (K328): 566.87ft.</b>		
<b>Blast Overpressure Distance Range (K50): 86.41ft.</b>		
<b>Firing Point:</b>		

**Shot One Diagram**



<b>Shot Two</b>		
<b>Explosive/Ordnance</b>	<b>QTY</b>	<b>NEWQD</b>
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
SMDC Line	1	.02lbs.
Charge Demolition M112	4	6.85lbs.
M6 Electric Blasting Cap	2	N/A
<b>Total NEWQD = 6.92lbs.</b>		
<b>Hazardous Fragmentation Distance Range (HFDR): 265.92ft.</b>		
<b>Maximum Fragmentation Distance Range – Horizontal (MFDR-H): 1,173.89ft.</b>		
<b>Maximum Fragmentation Distance Range – Vertical (MFDR-V): 925.36ft.</b>		
<b>Blast Overpressure Distance Range (K328): 625.02ft.</b>		
<b>Blast Overpressure Distance Range (K50): 95.28ft.</b>		
<b>Firing Point:</b>		

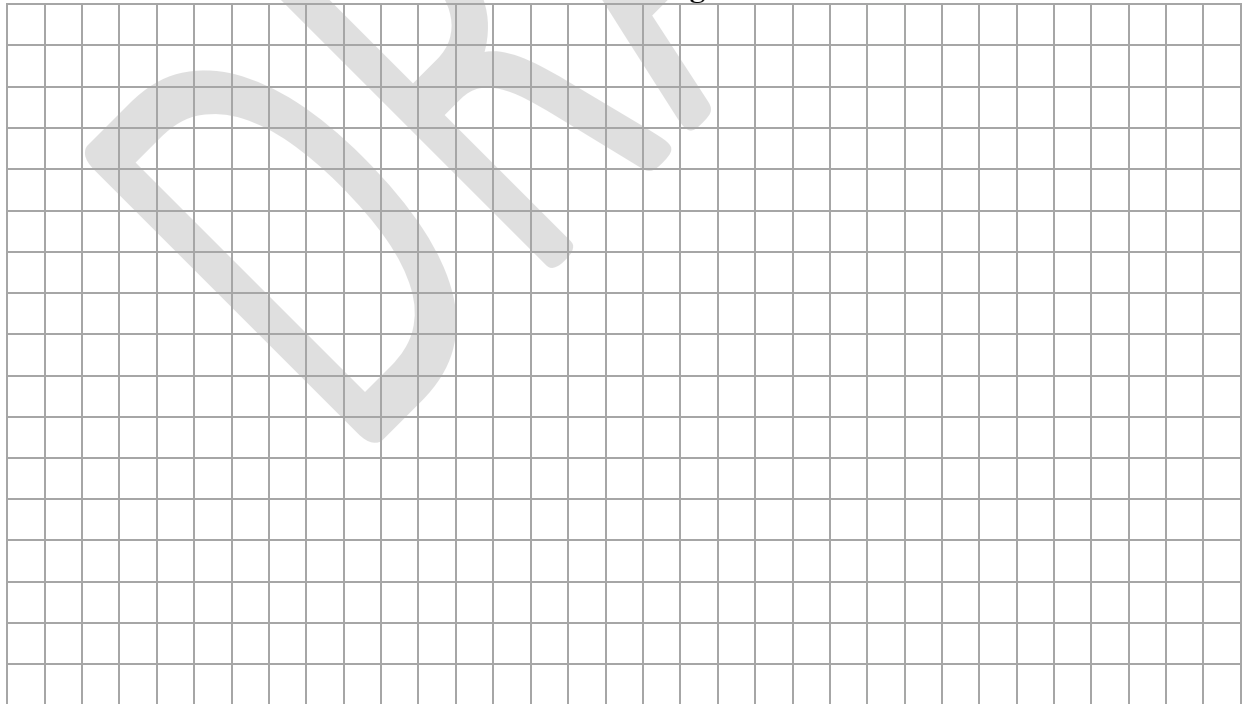
**Shot Two Diagram**





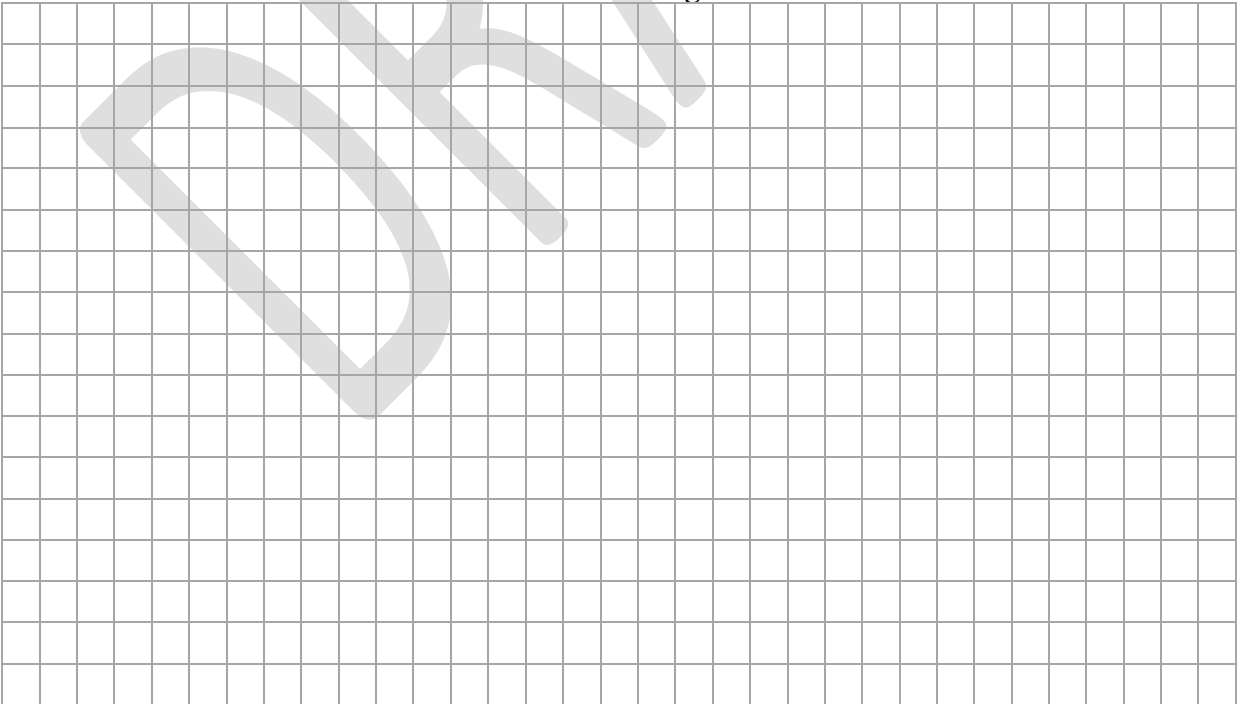
<b>Shot Three</b>		
<b>Explosive/Ordnance</b>	<b>QTY</b>	<b>NEWQD</b>
CTG, ENG STARTER MXU-4/A	1	8lbs.
Charge Demolition M112	4	6.85lbs
M6 Electric Blasting Cap	2	N/A
<b>Total NEWQD =14.85</b>		
<b>Hazardous Fragmentation Distance Range (HFDR): 405.89ft.</b>		
<b>Maximum Fragmentation Distance Range – Horizontal (MFDR-H): 1,742.16ft.</b>		
<b>Maximum Fragmentation Distance Range – Vertical (MFDR-V): 1,354.84ft.</b>		
<b>Blast Overpressure Distance Range (K328): 806.21ft.</b>		
<b>Blast Overpressure Distance Range (K50): 122.90ft.</b>		
<b>Firing Point:</b>		

**Shot Three Diagram**



<b>Shot Four</b>		
<b>Explosive/Ordnance</b>	<b>QTY</b>	<b>NEWQD</b>
GRN HAND, NON-LETHAL, STUN	1	.01
Charge Demolition M112	1	1.71
M6 Electric Blasting Cap	2	N/A
<b>Total NEWQD = 1.72lbs.</b>		
<b>Hazardous Fragmentation Distance Range (HFDR): 265.92ft.</b>		
<b>Maximum Fragmentation Distance Range – Horizontal (MFDR-H): 1,173.89 ft.</b>		
<b>Maximum Fragmentation Distance Range – Vertical (MFDR-V): 925.36 ft.</b>		
<b>Blast Overpressure Distance Range (K328): 392.99ft.</b>		
<b>Blast Overpressure Distance Range (K50): 59.91ft.</b>		
<b>Firing Point:</b>		

**Shot Three Diagram**



### Additional Range Operation Diagram

Shot 2 and 3 will be initiated at 839.272ft (see map below).



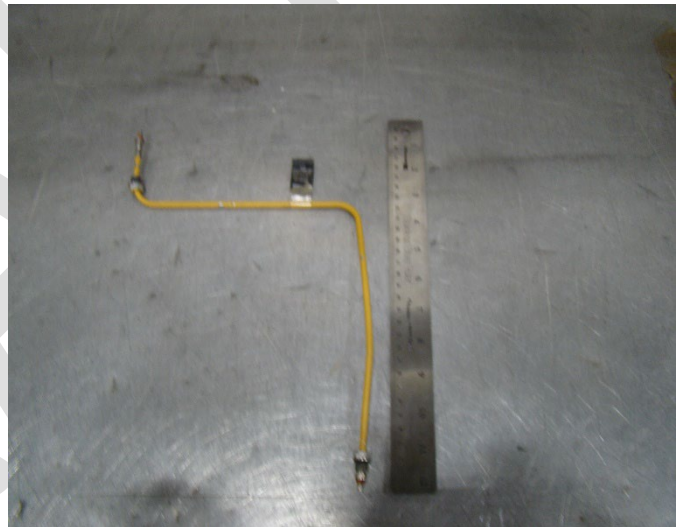


# Attachment 1

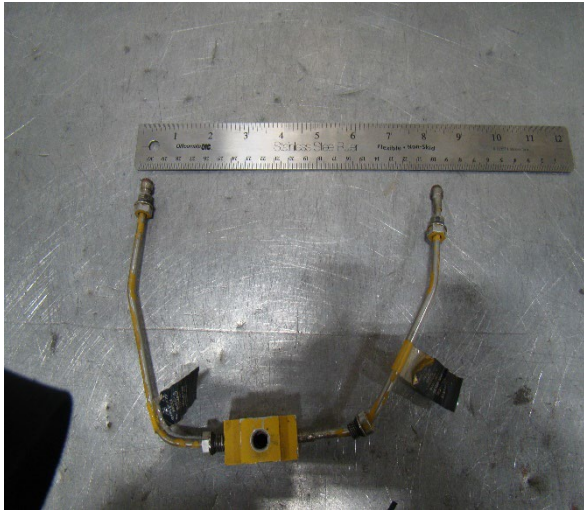
## Asset List Provided by 5 Muns

ADR	DATE	NSN	LOT	NOUN	CC	QTY	ADR RSN	SECTION	STATUS	HAZ CLASS	NEW LBS	NEW KG
FV45283108162	Apr-23	1377010808252	TAC89D003-103	CTG. ENG STARTER.MXU-4/A	H	1	PARTIAL BURN	Conv	Awt EOD	1.3C	8	3.62
FV45283017092	Jan-23	1330014598141	UPC05G001-020	GRN HAND.NON-LETHAL, STUN	P	1	TRNG MISHAP	Insp	Awt EOD	1.4G	0.009	0.004
FV45282042166	Feb-22	1377011288405	MSV16L011-01	Electric Detonator	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4S	0.0008	0.00036
FV45282042158	Feb-22	1377011259407	MSV19A020-001	Initiator, Pressure Act	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4C	0.00025	0.00011
FV45282042150	Feb-22	1377011267690	MSV16H019-001	Generator, Gas	P	3	INADVERTANT IGNITION	Insp	Awt EOD	1.4C	0.01646	0.00747
FV45282042142	Feb-22	1377011259505	MSV19B002-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0124	0.00563
FV45282042134	Feb-22	1377011259502	MSV17G001-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0116	0.00526
FV45282042126	Feb-22	1377011259504	MSV19B002-001	SMDC Line	P	2	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0113	0.00513
FV45282042118	Feb-22	1377011259500	MSV17G001-001	SMDC Line	P	1	INADVERTANT IGNITION	Insp	Awt EOD	1.4D	0.0142	0.00644
<b>Total NEW</b>											<b>8.07601</b>	<b>3.6544</b>

## Images of Assets



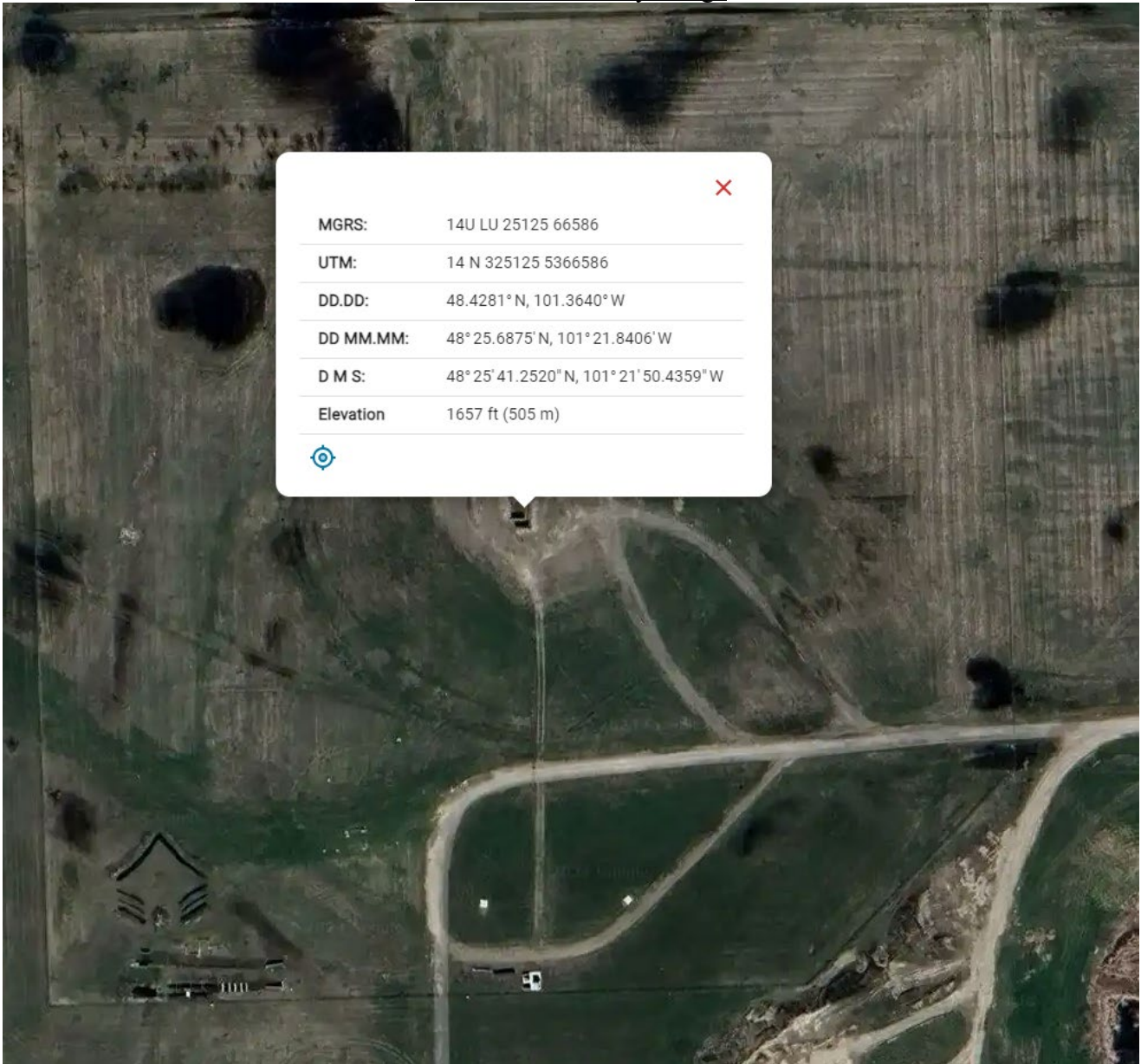
Images of Assets





## Attachment 2

### 5th EOD Proficiency Range



### **Pre-operational Safety Assessment.**

EOD operations will be conducted under the supervision and control of the EOD Team Leader (TL), normally the senior (rank/skill) locally-assigned EOD technician present. All explosives will be stored in their holding areas designated by Team Leader until needed.

Prior to the start of disposal or training operations, the TL designates an RSO. The RSO is responsible for ensuring all safety aspects of the operation are properly applied in support of the TL. The RSO will not participate as a worker during the explosive operation. The RSO will maintain control of all firing devices.

The TL will conduct a briefing to cover tasks to be performed, safety precautions and emergency procedures. The duties of the RSO and TL may be performed by the same person.

### **Minor EOD PRE-OPERATION SAFETY BRIEFING**

Notify the RSO of any early departure from the range. This will ensure accountability for all personnel.

#### **WARNINGS**

Ground yourself prior to handling initiating explosives (e.g. EIDs); work on grounded surfaces if possible.

Do not wear any 100% nylon, rayon, silk, or wool clothing when working with electrically initiated devices (EIDs).

Gortex garments may be worn during explosive operations as long as there is no contact with exposed explosive materials and direct contact with primers on electrically charged devices and munitions such as 20mm ammunition and EIDs is avoided.

Use available frontal/overhead protection during detonation – do not stand in view of the munitions to be detonated.

Wait 30 minutes after misfires utilizing electric blasting caps, shock tube and detonating cord.

Wait 60 minutes after anticipated time of detonation for misfires utilizing time fuse and non-electric blasting caps.

Smoking area will not be closer than 50 ft. downwind from explosives.

Always use eye protection when checking out electric blasting caps and preparing non-electric firing systems.

When checking out electric blasting caps/making connections, make use of available protective cover. Uncoil the cap leads to the full extent and face away from the blasting cap.

Do not conduct hand-held radio transmissions within 16 ft. (71 ft. with vehicle radios) of EIDs.

Modern Mobile Emitters (MME), such as key fobs, cellular phones, and radios on trunking networks will not be within 10 ft. of EIDs.

Remove rings and watches prior to starting any explosive operation.

Do not handle munitions roughly (e.g., rolled, tumbled, dropped, dragged or thrown). If an abnormal condition occurs, stop the operation until the condition is corrected.

Only one EOD technician will check the detonation point after a planned detonation with a second person acting as a safety backup. This rule also applies when checking items kicked out by a detonation. Deviation for the sake of training is not authorized.

Do not proceed directly down range if the detonation results in a range fire. Inform Fire department as to the extent of the fire so appropriate notifications can be made. Follow the safety measures outlined in 60A-1-1-31 prior to returning to the detonation site:

Wait at least 30 minutes after the fire has been extinguished to check the detonation point.

Do not approach a pyrotechnic or incendiary ordnance burn area for 30 minutes after the cessation of burning.

Make positive identification before taking any action on a munition item.

Destroy in place or clearly mark for later destruction any dud munitions that cannot be safely moved.

### CAUTION

Remember the Cardinal Principal of Explosive Safety: "To provide the maximum possible protection to people and property from the potential damaging effects of DoD military munitions, and minimize exposures consistent with safe and efficient operations (i.e., expose the minimum number of people for the minimum time to the minimum amount of explosives or CAs)."

The RSO will brief visiting personnel on type of ordnance and associated hazards. Provide specific instructions on where to drive, park, and walk; and not to touch items they may encounter (*"if you didn't drop it, don't pick it up"*). Show specific frontal/overhead protected area in which to take cover (*if required*).

Non-Essential Personnel Escort: If visitors are on range, assign an escort to ensure safety rules are followed. Escort to visitor ratio will not exceed 1:5. The RSO may be the Escort, but only if there is a separate TL leading the operation (one person may not be all three, TL, RSO and Escort).

### NOTES

All personnel wanting to proceed down range after commencement of the operation will do so only after obtaining approval from the RSO. Personnel will then be briefed on all hazards present.

Any unsafe actions observed by EOD personnel will be immediately brought to the attention of the RSO. The RSO will cease operations until unsafe condition is corrected. If unable to resume safe operations, withdraw to a safe distance and inform EOD Operations Control the operation is terminated.

The TL will ensure two-way radio (or phone) communication is operational and available (for both TL and RSO) during all explosive operations. Both a primary and a secondary means of communication are preferred.

Contact Minot Tower for clearance prior to initiating any explosives, except for Mk-series EOD tools and GBS/smoke grenades.

Ensure area is clear of personnel, vehicles, and low flying aircraft prior to initiating any detonations.



**Emergency Procedures.**

In the event of an accident or fire, \_\_\_\_\_ (normally the RSO) will notify the appropriate agency (e.g. fire department, ambulance, or EOD Operations Control).

A3.4.1.1. Evacuate all nonessential personnel \_\_\_\_\_ ft. The

Evacuation Assembly Point is

\_\_\_\_\_  
\_\_\_\_\_

Fire extinguishers/equipment are located\_

\_\_\_\_\_

First Aid Kit is located

\_\_\_\_\_

\_\_\_\_\_ and \_\_\_\_\_ will fight the fire and note the time if any munitions become engulfed in flames.

**WARNING**

Do not fight fires involving 1.1 munitions engulfed in flames unless attempting a rescue.

\_\_\_\_\_ will sound the alarm and go to the Evacuation Assembly Point to direct emergency responding personnel to the scene.

\_\_\_\_\_ and \_\_\_\_\_ will secure the site of unused explosives for storage or later disposition.

When evacuation is accomplished, RSO will account for everyone involved in the operation.

**EOD RANGE NOTIFICATION CHECKLIST**

Date: \_\_\_\_\_ Time: From \_\_\_\_\_ until \_\_\_\_\_  
 Location of Operation: \_\_\_\_\_ Type of operation: \_\_\_\_\_  
 Person making range calls: \_\_\_\_\_ Team Leader: \_\_\_\_\_  
 Fire Danger Level: \_\_\_\_\_ Lightning Threat: \_\_\_\_\_

**Notify the following Organizations of an explosive Range Operation:**

<b>Organizations</b>	<b>Phone</b>	<b>Person contacted and Time</b>
Fire Department.....	723-2461.....	_____
Airfield Management (flight data).....	723-2347.....	_____
Hospital.....	723-5627.....	_____
LE Desk.....	723-3096.....	_____
Command Post.....	723-3101.....	_____
Wing Safety.....	723-6232.....	_____
Squadron Commander.....	723-2434.....	Have SNCO contact _____
Tower.....	723- 3330/7826..	_____
Weather.....	723-6385.....	_____
Environmental (if applicable, see MMR).....	723-4825.....	_____
Public Affairs (Please refer to page 2).....	723-6212.....	Call for same day operations / Email for planned ops. V35BW.PA@us.af.mil

**For EOD tools at off range locations only notify:**

<b>Organizations</b>	<b>Phone</b>	<b>Person contacted and Time</b>
Law Enforcement.....	723-3096.....	_____
Wing Safety.....	723-6232.....	_____
Command Post.....	723-3101.....	_____
Squadron Commander.....	723-2434.....	Have SNCO contact _____
Public Affairs ...(If using Det Cord).....	723-6212.....	_____

**For Email to Public Affairs email with one of the following options after filling in the underlined portion(s):**

**ONE DAY IN ADVANCE ALL DAY NOTIFICATION:**

"The Minot Explosive Ordnance Disposal Flight will be conducting explosive operations tomorrow, DAY MONTH YEAR. You may hear periodic detonations throughout the day, there is no need to be alarmed."

**ONE DAY IN ADVANCE TIMED NOTIFICATION:**

"The Minot Explosive Ordnance Disposal Flight will be conducting explosive operations tomorrow, DAY MONTH YEAR, between TIME-TIME. You may hear periodic detonations throughout this time, there is no need to be alarmed."



**DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 5TH BOMB WING (AFGSC)  
MINOT AIR FORCE BASE NORTH DAKOTA**

31 July 2024

MEMORANDUM FOR 5 CES

FROM: 5 BW/CC

SUBJECT: Event Waiver 5BW-2024-EW-01 for EOD Training Area 2030A Utilization as an Intentional Detonation Site

References: (a) DESR 6055.09\_AFMAN91-201\_AFGM2020-01, Explosive Safety Standards

1. The purpose of the Event Waiver (EW) is to allow EOD to use Training Area 2030A to intentionally dispose of waste munitions that are currently stored in the 5 MUNS munitions storage area. These munitions are unserviceable and unsafe for transport. They must be disposed of locally and cannot be shipped using normal transportation methods.
2. A Quantity Distance (QD) analysis was completed using the approved Explosive Siting Software (ESS) treating 2030A as an Intentional Detonation Site (IDS). The attached ESS Analysis and Drawing show no violations to existing facilities, either exposed sites (ES) or Potential Explosion Sites (PES). The compensatory measures included in the original site plan for 2030A are still in effect for this event waiver. The risk for this event is low as determined by the decision nomograph (attachment 3). As a result, the approval level is the wing commander IAW DESR6055.09\_AFMAN91-201 para. V1.E3.9.2.4.
3. Facility 2030A is currently sited for 5 lbs. of HC/D 1.1 NEW. For the purpose of this event, 5 CES will be utilizing no more than 15 lbs. of HC/D 1.1 NEW to dispose of the waste munitions.
4. The strategic or compelling operational reason for approving this EW is the need to dispose of waste munitions from Minot AFB that cannot otherwise be disposed of through normal processes. The waste munitions in question have been deemed unserviceable and unsafe to transport over public roads or other shipping methods. Multiple options to dispose of the waste munitions were considered, they are:

Option	Decision	Rationale
Ship munitions using disposition process	Not Used	Munitions are unsafe for over the road transport or normal shipping options.
Utilize 2030A to dispose of munitions for training purposes	Not Used	2030A is sited for proficiency training which is limited to training purposes only and a max of 5 lbs. of HC/D 1.1 NEW
Event Waiver temporarily treating 2030A as an IDS	Used	Event waiver allows temporary increase of NEW limits and the use of 2030A as an IDS to dispose of waste munitions.

5. The control site will be at a minimum distance of 200 feet or K328 in IAW with DESR6055.09\_AFMAN91-201 para. V5.E3.2.6., and the 5 CES demolition plan.

6. A holding area will not be utilized during this event as all waste munitions will be destroyed using one detonation event. There will be no temporary staging of explosives as they will be directly transported from the munitions storage area to 2030A.

7. The compensatory measures stated in the original site plan for 2030A ensure that non-essential personnel will not be allowed in the area during detonation operations. EOD personnel will block road 30003 as stated in the original measures as the road is exposed to the clear zone of this event.

8. This EW is valid from 01 July 2024 through 01 July 2025. 2030A will only be treated as an IDS to dispose of waste munitions. All other uses of 2030A will follow normal protocols for use as a training proficiency range.

9. 5 BW/SEW will provide this waiver to all end users to ensure compliance with these procedures. Please direct any questions or concerns to the 5 BW Weapons Safety Office at DSN 453-4097.

10. I have reviewed the details above and authorize the temporary deviation for the required use of facility 2030A to be utilized as an IDS for destruction of waste munitions.

LAMARAND.JESS  
E.W.1239363616

Digitally signed by  
LAMARAND.JESSE.W.12393636  
16  
Date: 2024.07.31 17:15:37 -05'00'

JESSE W. LAMARAND, Colonel, USAF  
Commander

Attachments:

1. 2030A Analysis
2. 2030A Drawing
3. Nomograph

## EXPLOSIVES SAFETY SITE PLAN

### SECTION I - GENERAL INFORMATION

INSTALLATION: Minot AFB, ND 58705	LOCATION: 2030A 5BW-2024-EW-01	DATE: 12 Jun 2024	QD Engine: AF2013AUG16 ESS: 6.1.4.36.1
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### SECTION II - DATA ON FACILITY TO BE SITED

FAC # & OWNER	FACILITY DESC	RQD IBD	RQD PTR	1.1 (xx)	1.2.1 MCE	1.2.2	1.2.3 MCE (xx)	1.3	1.4
2030A AFGSC 5 CES	IDS EOD Proficiency Range			15 lbs >= 26' X 60'	0 lbs >= 26' X 60'	0 lbs	0 lbs	0 lbs	0 lbs

### SECTION III - PES/ES QD PAIRED RELATIONSHIPS WITH FACILITIES BEING SITED

FAC # & OWNER	FACILITY DESC	ACT & RQD DIST	ORIEN-TATION	1.1 (xx)	1.2.1 MCE	1.2.2	1.2.3 MCE (xx)	1.3	1.4
2073 AFGSC 5 BW IL	ECA A/C Explosives Cargo (Prop)	Actual: 2321.08 ft Required: 616 ft	As PES (reverse)	40000 lbs (13) 616 ft T12.8 Unbarricaded ILD	20000 lbs 451 lbs 450 ft T12.9 ILD	20000 lbs 162 ft T12.11 ILD	50000 lbs 450 lbs (13) 468 ft P12.27.2.1.2	80000 lbs 189 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
6021 AFGSC 5 muns IL	AGM Mag, Aboveground, Open	Actual: 846.72 ft Required: 634 ft	As PES (reverse)	43800 lbs (14) 634 ft T12.8 Unbarricaded ILD	84000 lbs 451 lbs 507 ft T12.9 ILD	500000 lbs 282 ft T12.11 ILD	500000 lbs 450 lbs (13) 468 ft P12.27.2.1.2	500000 lbs 372 ft T12.12 IMD/ILD	500000 lbs 50 ft T12.13 AGS(L):IMD > 3000
6025 AFGSC 5 MUNS IL	EOL Maintenance Bldg, Explosives	Actual: 1815.07 ft Required: 766 ft	As PES (reverse)	76992 lbs (17) 766 ft T12.8 Unbarricaded ILD	50000 lbs 451 lbs 481 ft T12.9 ILD	50000 lbs 193 ft T12.11 ILD	50000 lbs 450 lbs (13) 468 ft P12.27.2.1.2	50000 lbs 163 ft T12.12 IMD/ILD	1000000000 lbs 50 ft T12.13 AGS(L):IMD > 3000
981 5 MUNS IL	AGM Above Ground Magazine, Structure	Actual: 1678.38 ft Required: 558 ft	As PES (reverse)	29791 lbs (17) 558 ft T12.8 Unbarricaded ILD	48670 lbs 450 lbs 479 ft T12.9 ILD	150000 lbs 233 ft T12.11 ILD	150000 lbs 450 lbs (13) 468 ft P12.27.2.1.2	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
982 AFGSC 5 MUNS IL	AGM Mag, Aboveground, Structure	Actual: 1829.31 ft Required: 558 ft	As PES (reverse)	29791 lbs (12) 558 ft T12.8 Unbarricaded ILD	62900 lbs 451 lbs 492 ft T12.9 ILD	75000 lbs 207 ft T12.11 ILD	75000 lbs 450 lbs (12) 432 ft P12.27.2.1.2	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
983 AFGSC 5 MUNS IL	AGM Mag, Aboveground, Structure	Actual: 2006.45 ft Required: 790 ft	As PES (reverse)	84460 lbs (17) 790 ft T12.8 Unbarricaded ILD	150000 lbs 451 lbs 536 ft T12.9 ILD	150000 lbs 233 ft T12.11 ILD	84657 lbs 450 lbs (8) 288 ft P12.27.2.1.2	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
984 AFGSC 5 MUNS IL	AGM Mag, Aboveground, Structure	Actual: 2146 ft Required: 537 ft	As PES (reverse)	26552 lbs (21) 537 ft T12.8 Unbarricaded ILD	100000 lbs 99 lbs 516 ft T12.9 ILD	100000 lbs 217 ft T12.11 ILD	100000 lbs 220 lbs (11) 396 ft P12.27.2.1.2	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
985 AFGSC 5 MUNS IL	AGM Mag, Aboveground, Structure	Actual: 2340.31 ft Required: 805 ft	As PES (reverse)	89364 lbs (17) 805 ft T12.8 Unbarricaded ILD	150000 lbs 451 lbs 536 ft T12.9 ILD	150000 lbs 233 ft T12.11 ILD	150000 lbs 450 lbs (3) 124 ft T12.12 IBD/PTRD	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000
986 AFGSC 5 MUNS IL	AGM Mag, Aboveground, Structure	Actual: 2460.01 ft Required: 893 ft	As PES (reverse)	122000 lbs (21) 893 ft T12.8 Unbarricaded ILD	150000 lbs 99 lbs 536 ft T12.9 ILD	150000 lbs 233 ft T12.11 ILD	150000 lbs 156 lbs (8) 288 ft P12.27.2.1.2	150000 lbs 234 ft T12.12 IMD/ILD	150000 lbs 50 ft T12.13 AGS(L):IMD > 3000

**SECTION III - PES/ES QD PAIRED RELATIONSHIPS WITH FACILITIES BEING SITED**

<b>FAC # &amp; OWNER</b>	<b>FACILITY DESC</b>	<b>ACT &amp; RQD DIST</b>	<b>ORIENTATION</b>	<b>1.1 (xx)</b>	<b>1.2.1 MCE</b>	<b>1.2.2</b>	<b>1.2.3 MCE (xx)</b>	<b>1.3</b>	<b>1.4</b>
99201 AFGSC 5 CES ID	UGU  Sewage Mains, Underground	Actual: 275.35 ft Required: 100 ft	As ES	100 ft T12.1	0 ft T12.2	0 ft T12.2	0 ft T12.2	0 ft T12.3	0 ft T12.3

**SECTION IV - EXPOSURES NOT REQUIRING QD**

*These facilities have been classified as non-applicable for the purposes of QD. Such facilities might include roads, railways, boundaries, or parking lots.*

<b>Name</b>	<b>PES Side</b>	<b>Distance</b>	<b>Type</b>	<b>Notes</b>
Facility 30003 (Object 532)	NA	296.03 ft	NTR	EOD range road 30003 will be blocked off during range operations at points identified within EODs Operating Instructions.











Explosives Safety  
Submittal Drawing  
5BW-2024-EW-01

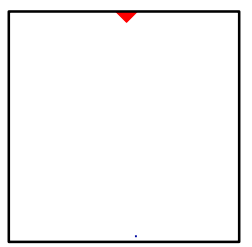
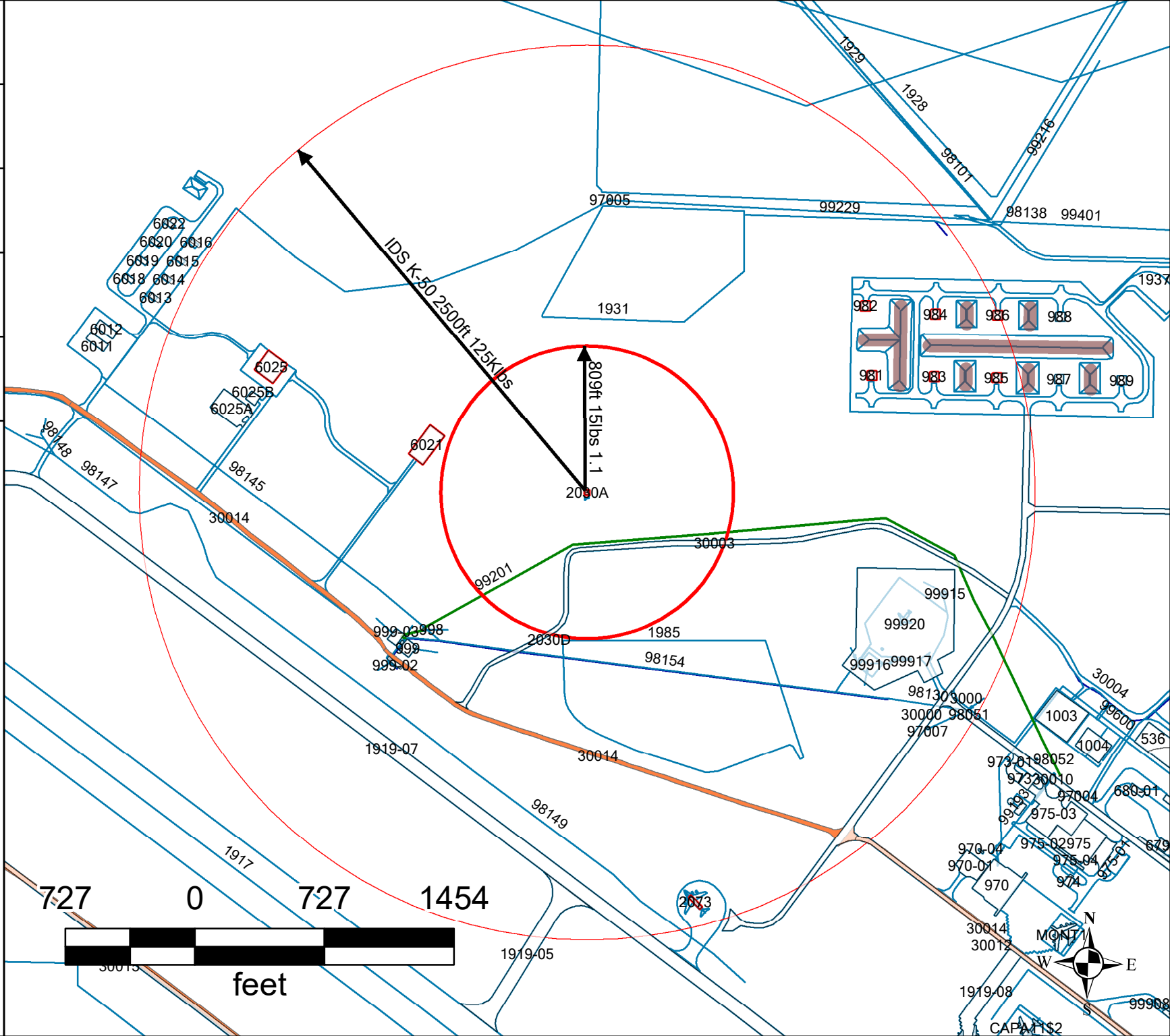
Facility Number:  
2030A

Base/Location:  
Minot AFB, ND 58705  
QJVF

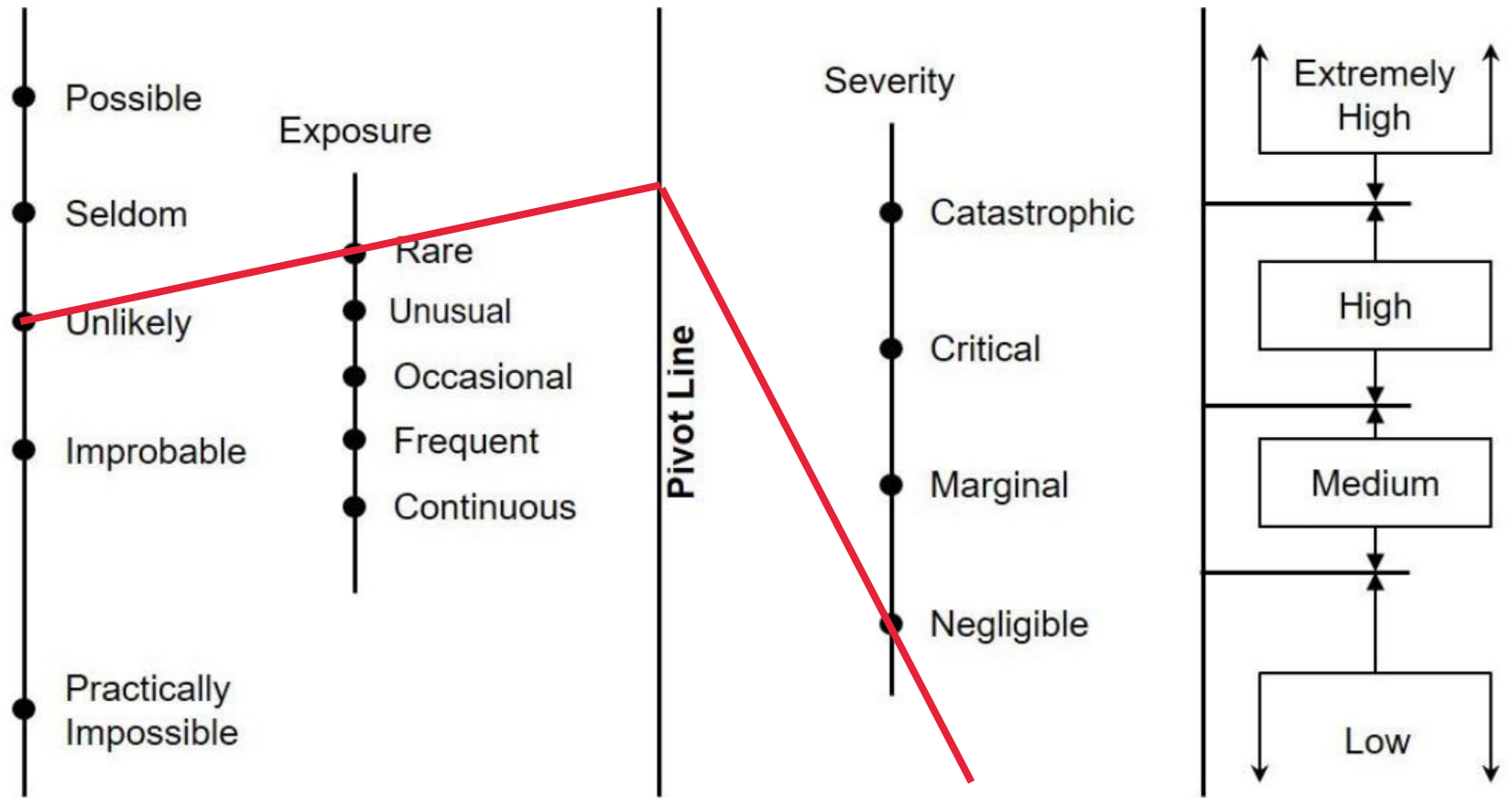
Analysis Date:  
6/12/2024  
AF2013AUG16

Review Date:

- PES 
- ES 
- facility\_site 
- Mitigated 
- Unmitigated 
- IBD\_Zones 
- Evaluation\_Zones 
- Alert\_FlightLine 
- Roads 
- facility\_line 







**Title:** 5BW-2024-EW-01 Nomograph **Deviation Type:** Risk Assessment: Low



Air Force Operational Range Assessment Program  
 Operational Range Assessment Report  
 Minot Air Force Base, North Dakota

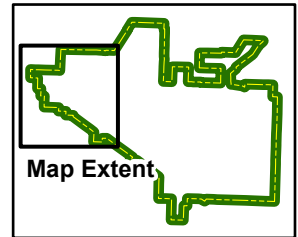
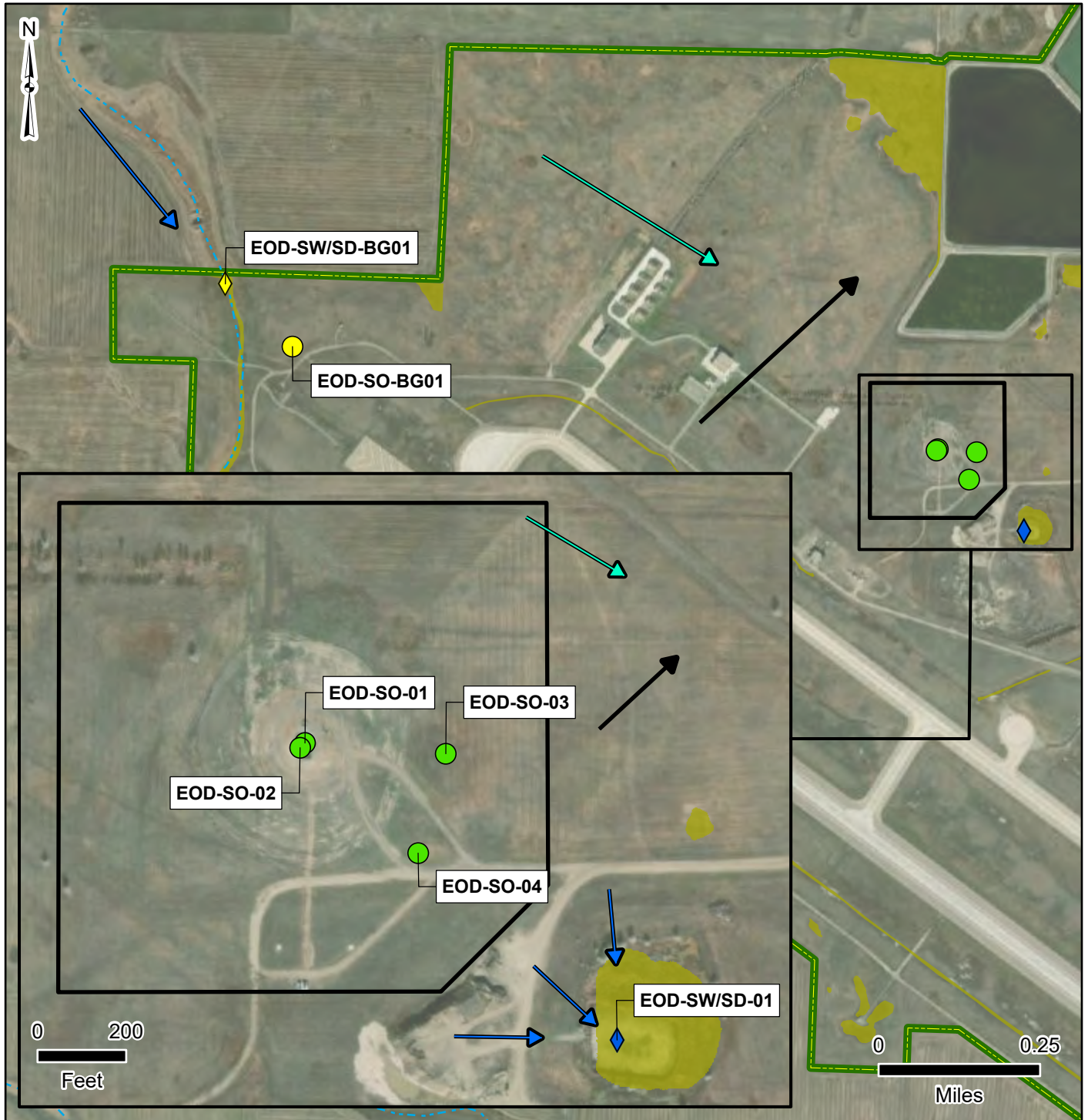


Figure 4-2  
 EOD Proficiency Training Range  
 Sample Locations



**Installation Data**

- Installation Boundary
- EOD Proficiency Training Range
- Wind Direction

**Sample Locations**

- Surface/Subsurface Soil
- Upgradient Surface/Subsurface Soil
- Surface Water/Sediment
- Upgradient Surface Water/Sediment

**Hydrology/Hydrogeology**

- Surface Water Flow Direction
- Groundwater Flow Direction
- Intermittent Creek/Stream
- Wetlands

Data Sources:  
 ESRI 2021  
 Minot AFB  
 GeoBase 2020

Date:.....April 2021  
 Prepared By:.....EA  
 Prepared For:.....USACE and AFCEC  
 Projection:.....WGS 84 UTM 14N

Frederick,

### Training

MSgt Bryan Woiewucki spoke with some at the NDDEQ, he did not provide me a name, for clarification on training records and was told to provide a synopsis of their demolition training

Each member of an EOD unit graduates from the DoD's EOD training program where they must pass demolition training. Upon joining a unit, demolition is a certified task for all members in the unit and allows members to perform demolition of items by USAF standards. Additionally, we as EOD, are required to perform monthly demolition qualification for proficiency. All members of the flight were qualified in Jan 2025 and will again qualify by the end of Feb 2025.

The key to understanding skills and certification is the number in the job code. Members who are qualified to perform demolitions will have 3's and 5's in their job code. As members are promoted, they become supervisors of these events. These members have 7's and even 9's in their job codes. These members not only perform demolition duties but also oversee and approve demolition operations. We will be providing members to oversee both safety and compliance for this event.

Members of the operation:

Job/Name:	Job Code
Range Safety Officer: SMSgt Ben Baloga	3E891
Team/Demolition Lead: TSgt Taylor Tompkins (transferred to another duty station)	3E871. (TSgt Aguilera recently transferred to another duty station)
Team Member: SrA Hunter Romaniello	3E851.

### Activity Timing

All four shots will happen in a single day. The estimated time to complete all four shots will be approximately 3 hours. This is to account for logistical, site safety, operation specific, and post operational activities

Regards,  
Tom

Thomas Filkins, CIV, DAF  
Chief, Environmental Management  
Comm: 701.723.1964

**From:** Ilunga, Frederick K. <[flLunga@nd.gov](mailto:flLunga@nd.gov)>  
**Sent:** Monday, February 24, 2025 11:36 AM  
**To:** FILKINS, THOMAS A GS-13 USAF AFGSC 5 CES/CEIE <[thomas.filkins.3@us.af.mil](mailto:thomas.filkins.3@us.af.mil)>  
**Subject:** [Non-DoD Source] RE: Waste Military Munitions - Minot AFB  
**Importance:** High

Tom,

Could you provide training records (pertaining to the detonation) of the people that will be involved in the open detonation activities or a certification that they were trained, and list of training received.

Also, can you clarify about the timing of the activity. Is the base planning to do the detonation event in one day or on multiple days? What will be the duration of the event(s)? I understand that there will be four shots.

Once we receive that information, we will finalize the emergency permit, and let you know about the next step.

Thanks,

**Frederick K. Ilunga**

*Division of Waste Management • Hazardous Waste Program*

701-328-5176 • [filunga@nd.gov](mailto:filunga@nd.gov) • <https://deq.nd.gov/>

