

GENERAL DYNAMICS Ordnance and Tactical Systems	ST. PETERSBURG, FLORIDA		
	SUPPLIER QUALITY CLAUSE		
TITLE Demilitarization, Disposal and Certificate of Demilitarization	QUALITY CLAUSE S21	REVISION 0	EFFECTIVE DATE June 09, 2023
Material and/or services supplied to purchase orders must be in accordance with all quality clause requirements and any additional requirements outlined on the purchase order.			

1.0 REFERENCES

- Department of Defense (DoD) 4145.26-M (Latest revision unless specified otherwise): DoD Contractors Safety Manual for Ammunition and Explosives
- Department of Defense Manual (DoDM) 4160.28-M-V1 (Latest revision unless specified otherwise): Defense Demilitarization: Program Administration
- DoDM 4160.28-M-V2 (Latest revision unless specified otherwise): Defense Demilitarization: Demilitarization Coding
- DoDM 4160.28-M-V3 (Latest revision unless specified otherwise): Defense Demilitarization: Procedural Guidance
- Department of Defense Instruction (DoDI) 4140.62 (Latest revision unless specified otherwise): Material Potentially Presenting an Explosive Hazard (MPPEH)
- DI-SAFT-80931 (Latest revision unless specified otherwise): Explosive Ordnance Disposal Data
- DI-SAFT-81640 (Latest revision unless specified otherwise): Ammunition and Explosives (A&E) Demilitarization (Demil) Plan

2.0 REQUIREMENTS

2.1 AMMUNITION Demilitarization and Disposal Plan (ADDP)

The subcontractor shall submit an ADDP for approval in accordance with DI-SAFT-81640. DoD 4145.26-M, Department of Defense Manual (DoDM) 4160.28-M-V1, DoDM 4160.28-M-V2, DoDM 4160.28-M-V3, and Department of Defense Instruction (DoDI) 4140.62 shall be used for guidance when creating the ADDP. At a minimum, the ADDP shall address the following items:

- a) This table shall include a clear definition of the item(s) to be demilitarized in the ADDP. At a minimum, this table shall include the configuration of the item(s) with attached illustrations, item description, part number, National Stock Number (NSN), Department of Defense Identification Code (DoDIC), hazard classification, etc. This table shall also include composition, weight, and quantity for each component, as well as the aggregate weight of all materials in the Ammunition & Explosives (A&E). Include all precious metals and materials and identify the quantity of each.
- b) A summary of the safety hazards unique to the A&E and the precautions and procedures that must be employed during the demilitarization and disposal operation. Provide a table to list all the energetics and hazardous materials in the item. The table shall include:
 - i. Item
 - ii. Composition
 - iii. Drawing Numbers
 - iv. Specification
 - v. Net Explosive Weight (NEW)
 - vi. Material Safety Data Sheet (MSDS)
 - vii. Hazardous Component Safety Data Statements (HCSDS)

MSDS's and HCSDS's are to be prepared and included with the plan.

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- c) Products of Combustion: The calculated Products of Combustion shall be presented in tabular format for component groups which are going to be incinerated together.
- d) Environmental Significance: Describe and analyze the environmental significance of each demilitarization and disposal alternative. This shall include overall environmental considerations and precautions to include possible environmental concerns or impacts of the demilitarization (demil) process.
- e) Description of the demil, disposition, disposal, and destruction processes, procedures, facilities, and special tools and equipment needed to perform the demilitarization process. This shall include an explanation of step-by-step operations, safety precautions, disassembly diagrams, component, piece part tables, inspection requirements particular to each process/operation and a graphical depiction of production process flow layouts. If applicable this demil process shall include both the preferred and alternate procedures of demilitarization and disposal process.
- f) An overall description of the integration of processes that will involve reutilization or recycling of components. The details regarding management and execution of the subcontractor's reutilization or recycling program shall be provided in an embedded Reutilization/Recycling Plan.
- g) Assessment and disposing process of received items that are discovered by the subcontractor to be unsafe for the subcontractors proposed demil process ("off normals"). All off normal procedures shall include notification and approval from General Dynamics Ordnance and Tactical Systems (GD-OTS) and/or the United States Government (USG) prior to implementation.
- h) Security, safety, storage, handling, transportation and final disposition of the A&E and components. Any additional hazards identification, safety, and transportation documentation for the materials and components the contractor has recovered for reutilization, recycling, or disposal.
- i) The rate of demil described as the number of items or tonnage of those items that can be processed by the subcontractor's chosen demil procedures on a weekly, monthly, and yearly basis.
- j) A listing of references used by the contractor to develop the ADDP.
- k) Description of Propellant Testing, Reporting, and Storage Requirements (if applicable by contract).
- l) Asset Receipt, Storage and Inventory Plan.
- m) Description of any destruction processes to be used.
- n) Any alternate process can be included for review and acceptance, i.e., an alternate process to handle contaminated or corroded assets.
- o) Waste Stream and Residual Analysis. Waste Stream and Residual Analysis shall describe the waste stream from thermal treatment processes for the disposal of the energetic or explosive materials. Identify the treatment, storage, and/or disposal of waste streams, and indicate the permits and/or license(s) required to be in place at the start of demil.
- p) Procedures for periodic validation tests to be performed.

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q) Process for Certification of Demilitarization of A&E.

2.2 EXPLOSIVE ORDNANCE DISPOSAL/PROCEDURE

The A&E design must be qualified for Explosive Ordnance Disposal (EOD). Qualification for EOD shall be coordinated with GD-OTS and requires the subcontractor to demonstrate and verify that the A&E can be rendered-safe and disposed of in all field environments. The subcontractor shall create and submit an EOD procedure for the A&E in accordance with DI-SAFT-80931.

2.3 CERTIFICATE OF DEMILITARIZATION

The subcontractor shall submit a Certificate of Demilitarization (CoD) in accordance with DoD 4160.28-M-V3. The CoD shall be signed by the subcontractor representative, or their supervisor / manager, certifying they actually performed/witnessed/supervised the demilitarization, and the subcontractor representative, or their supervisor / manager, verifying they witnessed/inspected/supervised 100% of all key points as

defined in the ADDP for demilitarization. The Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR) shall sign the CoD stating the demilitarization was completed in accordance with the subcontract's accepted Ammunition Demilitarization & Disposition Plan (ADDP) and periodic process reviews.

As required by DoD 4160.28-M-V3, a certification/verification statement attesting to completion of all demilitarization operations by a subcontract official will be on the CoD. The CoD shall identify the ammunition items(s) by item description and the number of rounds completely demilitarized. The subcontractor shall add the following certification statement:

"I certify that the item(s) listed hereon has/have been demilitarized in accordance with DoDM 4160.28-M-V3, Category (list category), paragraph (list paragraph) and/or the following applicable regulation/contract (cite contract reference section.)".

In addition to the CoD requirements indicated above, the CoD shall include the following information:

- a) Identify the materials, components and/or products received.
- b) Document the date of receipt.
- c) Identify the facility where the destruction was performed.
- d) Signatures shall include title of the person signing and the date.

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3.0 QUALITY CLAUSE DELIVERABLES (QCD)

Microsoft Office or PDF formats are preferred. All subcontractor data submittals shall be in English. This data item shall be submitted to GD-OTS in accordance with the QCDs as indicated below. The method of submission to GD-OTS St. Petersburg is specified in the General Supplier Quality Clause "S1" located on GD-OTS's Supplier Portal <https://www.gd-ots.com/suppliers/quality-clauses/> under GD-OTS St. Petersburg, FL.

NO.	TITLE	GD-OTS APPROVAL REQUIRED	SUBMITTAL TIMING/FREQUENCY
S21-1	Certificate of Demilitarization	Yes	Unless otherwise directed in Subcontract/Purchase Order (PO) or Special Instructions document provided by GD-OTS; QCD is due 7 calendar days after completion of the demilitarization effort complete with the DCMA QAR signoff.
S21-2	ADDP	Yes	Unless otherwise directed in Subcontract/PO or Special Instructions document provided by GD-OTS; QCD is due 45 calendar days after acceptance of PO.
S21-3	EOD Procedure	Yes	Unless otherwise directed in Subcontract/PO or Special Instructions document provided by GD-OTS; QCD is due 45 calendar days after acceptance of PO.

4.0 REVISION HISTORY

REV	DATE	CHANGE
0	06/09/2023	ECN23315-Initial Release