

FY16 MILCON P-635, MUNICIPAL SOLID WASTE LANDFILL CLOSURE
ANDERSEN AIR FORCE BASE, GUAM
REQUEST FOR PROPOSAL (RFP) AMENDMENT 0002
Specifications Amendment

DIVISION 01 GENERAL REQUIREMENTS

PROJECT TABLE OF CONTENTS

Section 01 57 19.01 20, SUPPLEMENTAL TEMPORARY ENVIRONMENTAL CONTROLS, is deleted and Section 01 57 19.01 20, SUPPLEMENTAL TEMPORARY ENVIRONMENTAL CONTROLS, dated July 27, 2016, as shown in the footer, is added to the Project Table of Contents.

SECTION 09 96 72 RECOATING EXISTING STEEL WATER TANK

3.07 Exterior Surface Preparation

Paragraph B, delete “SSPC SP-2 or SSPC SP-3” and replace with “SSPC SP-10”.

SECTION 01 57 19.01 20

SUPPLEMENTAL TEMPORARY ENVIRONMENTAL CONTROLS
Joint Region Marianas Explosives Safety Submission (JRM ESS)
05/16

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only. If state or local references are not provided here, refer to Section 01 57 19.00 20 TEMPORARY ENVIRONMENTAL CONTROLS for appropriate references.

JOINT REGION MARIANAS (JRM)

JRM ESS (Amendment Series) Explosives Safety Submission, Munitions
Response Sites, GUAM CONSTRUCTION SUPPORT

NAVFAC Standards for
Geographic Information System (GIS)

DEPARTMENT OF DEFENSE (DOD)

EM-385-1-1 Safety and Health Requirements Manual, US
Army Corp of Engineers (USACE)

NOSSAINST 8020.15D Naval Ordinance Safety and Security Activity,
Explosives Safety Review, Oversight, and
Verification of Munitions Responses (U)

NAVSEA OP 5 (Volume 1) Naval Sea Systems Command, Ammunition and
Explosives Safety Ashore

DDESB TP-18 Department of Defense Explosive Safety Board,
Technical Paper 18, Qualifications for UXO
Technicians

NOSSAINST 8023.11B Standard Operating Procedures, Development,
Implementation, and Maintenance for
Ammunition and Explosives

CNO ES Exemption E1-16 Chief of Naval Operations Explosives Safety
Exemption E1-16A dated 09 May 16

- For all above references, the most current version shall apply.

1.2 SUBMITTALS

Government acceptance is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

ESS Work Plans, Digital Geophysical Mapping (DGM) followed by
 Anomaly Investigation; G

Installation Commanding Officer (ICO) Notification; G

SD-11 Field Reports, After Action Report, and Closeout

QC/QA Report; G

MEC/MPPEH Spot Report; G

Weekly Situational/Status Report (SITREP); G

After Action Report (AAR) DGM followed by anomaly investigation;
 G

1.2.1 Submittal Schedule

Submittal schedule requirements for various ESS Deliverables are detailed below. The period of review for each resubmittal is the same as for initial submittal.

SCENARIO 1: ANOMALY AVOIDANCE
 Not Used.

SCENARIO 2: ANOMALY INVESTIGATION
 Not Used.

SCENARIO 3: DGM FOLLOWED BY ANOMALY INVESTIGATION

SUBMITTALS REQUIRED PRIOR TO DGM		
Submittal	Copies	Timeframe
DGM Work Plan	Electronic, 6 hard copies, each with CD, bookmarked .pdf and .doc (or .xls) file	30 calendar days after award
Government Review/Accept DGM Work Plan	Electronic, .pdf and .doc (or .xls) file	14 calendar days

*DGM field work may commence after Gov't acceptance of DGM Work Plan.

SUBMITTALS REQUIRED DURING DGM		
Submittal	Copies	Timeframe
DGM QC/QA Report	Electronic	As required, government review and acceptance 7 calendar days

SUBMITTALS REQUIRED POST-DGM		
Submittal	Copies	Timeframe
DGM After Action Report	Electronic, 6 hard copies, each with CD, bookmarked .pdf and .doc (or .xls) file	30 calendar days after completion of all DGM field work
Government Review/Accept DGM AAR	Electronic, .pdf and .doc (or .xls) file	14 calendar days

*Anomaly Investigation Work Plan shall not be submitted until DGM AAR is accepted by the Government.

SUBMITTALS REQUIRED PRIOR TO ANOMALY INVESTIGATION		
Submittal	Copies	Timeframe
Anomaly Investigation Work Plan	Electronic, 6 hard copies, each with CD, bookmarked .pdf and .doc	30 calendar days after award
Government Review/ Accept Anomaly Investigation Work Plan	Electronic, DC with .pdf and .doc (or .xls) file	14 calendar days
Installation Commanding Officer (ICO) Notification	Electronic, slide presentation	45 calendar days prior to anomaly investigation

*Anomaly Investigation field work may commence after Gov't acceptance of Anomaly Investigation Work Plan.

SUBMITTALS REQUIRED DURING ANOMALY INVESTIGATION		
Submittal	Copies	Timeframe
Weekly SITREP	Electronic	Weekly
MEC/MPPEH Spot Report	Electronic	As required, within 1 business day of confirming identification of MEC/MPPEH
QC/QA Report	Electronic	As required; government review and acceptance 14 calendar days

SUBMITTALS REQUIRED POST-ANOMALY INVESTIGATION		
Submittal	Copies	Timeframe

Anomaly Investigation After Action Report	Electronic, 6 hard copies, each with CD, bookmarked .pdf and .doc	7 calendar days after completion of all Anomaly Investigation work
Government Review/Accept Anomaly Investigation AAR	Electronic, .pdf and .doc (or .xls) file	14 calendar days

The following requirements apply to the CD ROM.

1. Editable, unlocked file formats compatible with Navy computer system software shall be provided for all documents Native file formats shall be provided for all documents in reports.
2. A .pdf file(s) of the final documents shall also be provided in the following formats: The entire document shall be provided as one pdf file. The pdf file shall have bookmarks for each item identified in the document's table of contents, including tables, figures, captioned photos, and appendices. The bookmark shall use the same description as provided in the table of contents. If the bookmark is lengthy, abbreviate as needed. Bookmark to the second level (i.e. 1.1, 1.2, 1.3, etc.). Do not bookmark signature page of the list of acronyms. Each appendix, regardless of size, shall be provided as an individual pdf file. All maps, figures, and pictures shall be provided at a useable resolution. All color maps, figures, and pictures shall be provided in color.

1.3 Personnel Qualifications and Duties

Personnel shall meet the minimum qualification standards set forth in DDESB TP 18 and the JRM ESS, including training and experience requirements. Duties are defined in DDESB TP 18 and the JRM ESS.

For projects requiring on site construction support, an Unexploded Ordnance (UXO) Technician II or above shall be present on site.

For projects requiring munitions response (i.e. anomaly investigation), the contractor shall provide the following personnel:

1.3.1 Unexploded Ordnance Safety Officer (UXOSO)

The UXOSO shall be responsible for implementing the Site Health and Safety Plan (SHSP) and the Accident Prevention Plan (APP). UXOSO must be on site during anomaly investigation. UXOSO may also perform duties of the UXOQCS.

1.3.2 UXO Quality Control Specialist (UXOQCS)

The UXOQCS shall be responsible for implementing the Quality Control Plan. The UXOQCS may also perform duties of the UXOSO. During DGM or Advanced Technology / Munitions Classifier methodologies, either the UXOQCS or Geophysicist must be on site. The UXOQCS shall not report to the SUXOS. The UXOQCS is responsible to ensure that the three phases of quality control (preparatory, initial, and follow-up) are properly implemented and shall inspect each definable feature of work by phase. If anomaly investigation is included, the UXOQCS is responsible for insuring proper implementation of the Geophysical System Verification process, installing an Instrument Verification Strip, and emplacing blind seeds.

1.3.3 The UXO Quality Assurance Manager (UXOQAM)

A qualified government representative shall be assigned to perform the duties of UXOQAM.

1.3.4 Senior UXO Supervisor (SUXOS)

The SUXOS is responsible to oversee all munitions response work. The SUXOS shall be on site at all times during anomaly investigation. SUXOS shall not perform the role of UXOSO or UXOQCS.

1.3.5 Geophysicist

A qualified geophysicist shall be required for DGM and/or Advanced Technology / Munitions Classifier methodologies only. The Geophysicist shall have a degree in geophysics, geology, geological engineering, or other closely-related field. The geophysicist shall have a minimum of five years of experience directly related to the geophysical mapping, detection, and classification of buried military munitions. This individual is the project geophysicist-of-record and has overall responsibility for design, implementation, and management of geophysical investigations required for the work effort related to military munitions. The geophysicist is not required to be on-site full time; however during DGM, either the UXOQCS or geophysicist must be on site.

1.3.6 UXO Technicians

UXO Technicians shall be provided by the contractor as needed based on site and project conditions. Training and experience shall be in accordance with DDESB TP 18 and JRM ESS and be commensurate with their assigned duties.

1.4 General Requirements for all Work Plans (WP)

Specific requirements for WP elements are described below. The WP shall be written, job-specific, and address any unusual or unique aspects of the project or activity for which it is written. The WP shall interface with the Contractor's overall safety, health, and quality control programs. The Government considers the Prime Contractor to be the "controlling authority" for all work site safety, healthy, and quality control implementation of the subcontractors. Contractors are responsible for informing their subcontractors of the safety and quality provisions under the terms of the contract and the penalties for noncompliance, coordinating the work to prevent one craft from interfering with or creating hazardous working conditions for other crafts, and inspecting subcontractor operations to ensure that accident prevention and quality control responsibilities are being carried out. The contractor shall implement the three phases of quality control. The WP shall be signed by the project superintendent, the project QC Manager, the project SSHO, the UXOSO, UXOQCS, SUXOS, and geophysicist (DGM WP only).

Once accepted by the Contracting Officer, the WP and attachments will be enforced as part of the contract. Only when the WP is accepted shall the contractor be permitted to begin intrusive activity. Disregarding the provisions of this contract or the accepted WP will be cause for stopping of work, at the discretion of the Contracting Officer, until the matter has been rectified.

Once work begins, changes to the accepted WP shall be made with the knowledge and concurrence of the Contracting Officer, project superintendent, QC Manager, SSHO, UXOSO, UXOQCS, SUXOS, and geophysicist (DGM WP only). Should imminent danger become evident, stop work in the area, secure the area, and develop a plan to remove the exposure and control the hazard. Notify the Contracting Officer within 24 hours of discovery. Eliminate/remove the hazard. In the interim, take all necessary action to restore and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public, and the environment.

Copies of the accepted WP will be maintained at the Contracting Officer's office and at the job site.

1.4.1 Anomaly Avoidance Work Plan (WP)

Not Used.

1.4.2 Digital Geophysical Mapping (DGM) Work Plan (WP)

The DGM WP shall include but not be limited to the following:

1. Project Plan. Describe the overall approach to manage and execute DGM. Identify the objectives and provide details on the equipment, methods, and standard operating procedures to be used. Detail the munitions history of the site to include previous munitions surveys and responses. Detail the technical approach used to execute DGM operations and the procedures required to prepare the site for DGM. Detail surface clearance procedures. Detail DGM processes and procedures to include the geophysical system verification (GSV) process, data collection, and data processing. Include site maps that identify acreage, HFD, and positional data. The WP shall comply with NAVSEA OP5 Section 14-10.3.1.5 that requires soil to be removed in layers when the depth of intrusive activities exceeds the detection limits of the geophysical instruments used.

2. Organization and Qualifications. Identify the MEC personnel organization, including organizational chart and the names and qualifications of MEC personnel in resume' format. Include copies of all certifications and qualifications per DDESB TP 18 and the JRM ESS.

3. Traffic Control. Detail traffic control and mitigation measures to be employed during DGM. Consideration shall be given to temporary road closures, alternate work schedules, and other methods to minimize impact to vehicular and pedestrian traffic. The Contractor shall be responsible for signage, devices, flag men, and any other control measures required to safely employ traffic control. The Traffic Control Plan shall be included in the Traffic Control Plan required by Section 01 50 00 TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS.

4. Communications Plan. Identify points of contact within the Prime Contractor and appropriate subcontractor organizations related to MEC/UXO clearance and other on-site activities. The list shall include but may not be limited to appropriate government personnel such as the Construction Management Engineer, Public Affairs Officer, EOD representative, and appropriate first responders. All contractor and government points of contact shall have names, titles, and primary and secondary phone numbers listed as appropriate. Include direction on who will be called for what specific reasons and the priority in which they will be contacted.

5. Schedule. Include specific line items for development, review, and acceptance for all submissions. It is the responsibility of the Prime Contractor to present an overall construction schedule that includes the appropriate JRM ESS clearance operations within the overall construction time line.

6. Accident Prevention Plan (APP) / Site Health and Safety Plan (SHSP). Describe site-specific hazards and the procedures to protect the health and safety of workers and the public during DGM activities. Include worker protective clothing and equipment, staging areas, and waste disposal requirements. The DGM APP shall be a separate submittal from the Construction Accident Prevention Plan required by Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS.

7. Quality Control Plan (QCP). Describe the project-specific quality control and procedures that will be implemented during all aspects of the DGM process. The three phases of control shall be used. Include specific details on the instrument validation strip (IVS) and blind seeding procedures. The QCP shall be a separate submittal from the Construction Quality Control Plan required by Section 01 45 00.00 20 QUALITY CONTROL.

1.4.3 Anomaly Investigation Work Plan (WP)

For projects that include DGM, the Anomaly Investigation WP shall be submitted after the acceptance of the DGM After Action Report (AAR). For projects that will be executed in zones/phases that result in multiple DGM AARs, a single Anomaly Investigation WP may be submitted and then be supplemented as additional zone/phase DGM AARs are completed and accepted based on the phased schedule.

Only when the Anomaly Investigation WP is accepted by the Government can ground disturbing work begin. Should the accepted Anomaly Investigation WP only include particular zones due to a phased schedule, ground disturbing work may begin only in those zones within the accepted Anomaly Investigation WP.

The Anomaly Investigation WP shall include, but not be limited to the following:

1. Project Plan. Describe the overall approach to manage and execute anomaly investigation for surface and subsurface clearance. Identify the objectives and provide details on the equipment, methods, and standard operating procedures to be used. Detail the primary and contingency munitions with the greatest fragmentation distances (MGFD) and the Exclusion Zones (EZs) that apply. Detail any reductions in EZs realized through armoring and engineering controls. Address site specific logistical requirements such as water / electrical / other utilities and demolition requirements, site restoration work, etc. Address on-going activities adjacent to the project site that may be impacted by the EZ (e.g. traffic along adjacent roads, housing, offices, etc.). Provide figures that identify exclusion zones for MGFDs and impacted property owners within the EZ. The WP shall comply with NAVSEA OP5 Section 14-10.3.1.5 that requires soil to be removed in layers when the depth of intrusive activities exceeds the detection limits of the geophysical instruments used.

2. Organization and Qualifications. Identify the MEC personnel organization, including organizational chart and the names and

qualifications of MEC personnel in resume' format. Include copies of all certifications and qualifications per DDESB TP 18 and the JRM ESS.

3. Site Specific Logistical Requirements. Identify staging and storage areas, lay down areas, designated soil storage and sifting operations, management and disposal of waste generated from field operations, and coordination with ongoing construction activities.

4. Traffic Control. Detail traffic control and mitigation measures to be employed during anomaly investigation. Consideration shall be given to temporary road closures, alternate work schedules, and other methods to minimize impact to vehicular and pedestrian traffic. The Contractor shall be responsible for signage, devices, flag men, and any other control measures required to safely employ traffic control. The Traffic Control Plan shall be included in the Traffic Control Plan required by Section 01 50 00 TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS.

5. Community Outreach.
Not Used.

6. Exclusion Zones. Identify the boundary of the EZ for each separate work period. Work periods may vary depending upon site-specific conditions (DGM AAR results, community impacts, etc.). Indicate all points of vehicle access along the EZ perimeter. Contractor shall be responsible to provide reasonable efforts to clear the EZ daily, prior to the start of anomaly investigation.

7. Communications Plan. Identify points of contact within the Prime Contractor and appropriate subcontractor organizations related to MEC/UXO clearance and other on-site activities. The list shall include but may not be limited to appropriate government personnel such as the Construction Management Engineer, Public Affairs Officer, EOD representative, and appropriate first responders. All contractor and government points of contact shall have names, titles, and primary and secondary phone numbers listed as appropriate. Include direction on who will be called for what specific reasons and the priority in which they will be contacted.

8. Schedule. Include specific line items for development, review, and acceptance for all submissions. It is the responsibility of the Prime Contractor to present an overall construction schedule that includes the appropriate JRM ESS clearance operations within the overall construction time line.

9. Accident Prevention Plan (APP) / Site Health and Safety Plan (SHSP). Describe site-specific hazards and the procedures to protect the health and safety of workers and the public during MEC activities. Include worker protective clothing and equipment, staging areas, and waste disposal requirements. The MEC APP shall be a separate submittal from the Construction Accident Prevention Plan required by Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS.

10. Quality Control Plan (QCP). Describe the project-specific quality control and procedures that will be implemented during all aspects of the field work including, but not limited to Data Interpretation, Target Acquisition, Intrusive Operations, Soil Excavation, Anomaly Avoidance, Soil Sifting and Screening, and MEC Identification / Storage / Transportation / Disposal. Include specific details on the instrument validation strip (IVS) and blind seeding procedures. The three phases of control shall be used. The

QCP shall be a separate submittal from the Construction Quality Control Plan required by Section 01 45 00.00 20 QUALITY CONTROL.

11. Instrument Verification Strip (IVS) Testing Report - Actual layer depth for excavation activities shall be based upon site specific data (site noise measurements) as determined by the specific Instrument Verification Strip(s) (IVS) for each site. The number and location of the IVS(s) shall be based on the size, physical features, and geology of the project site. A report outlining the findings and recommendations resulting from the IVS(s) shall be provided to the Government as part of the Anomaly Investigation Work Plan (WP).

1.5 Installation Commanding Officer (ICO) Notification

Intent of this submission is for the ICO to get a quick visual understanding of the anomaly investigation impact and use the submission to advertise the format the EZ, Traffic Control Plan, and impacted buildings. Include an aerial picture. Identify the dates, times, and duration of anomaly investigation. Identify the lead government and contractor point of contact for the on-site work. Submission will likely be 1 to 4 slides for each work period depending on the complexity and size of scope.

1.6 QC/QA Report

1.6.1 Anomaly Investigation QC/QA Report

The Anomaly Investigation QC/QA Report shall include the coordinate system used, description of grids / area included in the report, depth of clearance, number of anomalies investigated, lbs of debris recovered, number of MEC found, number of MPPEH found, number of blind seeds placed, and number of blind seeds recovered. The report must indicate if the QC inspection passed/failed, and must be signed by the UXOQCS, the Prime Contractor QC Officer (if different), and UXOQAM. In map format, identify the area included in the QC/QA Report relative to the entire project footprint, grids, anomalies Left in Place, MEC/MPPEH, and blind seeds. If MEC/MPPEH are found, include a tabular list of the grid, quantity, depth below surface, weight, type (MEC/MPPEH), disposition, mark/model, northing and easting, and any other applicable information. For blind seeds recovered, include a tabular list of the grid, northing and easting, quantity, depth, weight, description, and any other relevant information. For items Left in Place, include a tabular list of the grid, northing and easting, and description. Each complete QC/QA Report shall be submitted to the Government for review and acceptance.

Upon government acceptance of the QC/QA Report, the footprint included within that QC/QA Report may be managed as low likelihood per NAVSEA OP5 and the JRM ESS and construction may proceed in that area. It is anticipated that multiple QC/QA Reports will be required and the number will vary based on project and site conditions. The contractor is responsible for maintaining oversight of intrusive activities to ensure that construction activities that disturb the earth stay within designated areas of low likelihood. Should MEC/MPPEH be uncovered in a site that is managed as low likelihood, the contractor shall immediately stop work and contact the government Construction Management Engineer.

1.6.2 DGM QC/QA Report

Periodic reports documenting Quality Control and Quality Assurance shall be submitted to the Government. The DGM QC/QA Report shall include operational checks of instruments and equipment, compliance with the accepted DGM WP, identify any non-compliant work and resulting re-work, and document the three phases of control.

The report must indicate if the QC inspection passed/failed, and must be signed by the UXOQCS and the Prime Contractor QC Officer (if different).

1.7 MEC/MPPEH Spot Report

Spot report shall include a brief description of positively identified MEC/MPPEH and its disposition.

1.8 Weekly Situational/Status Report (SITREP)

Indicate percentage of anomaly investigation, area, and depth complete to date and any notable MEC-related issues from the previous week. Report shall also include a list of anomalies and MEC/MPPEH found to date. The site area cleared (area and depth) as well as any MEC/MPPEH found shall also be identified (and updated weekly for submittal) in a Geographic Information System (GIS) 3 Dimensional shape file that shall be compatible for insertion directly into the Government GIS system. The Contractor shall coordinate the software version, type, and coordination system with the Government to ensure compatibility with the Government System and shall compile into a single file upon project completion.

1.9 General Requirements for all After Action Reports (AAR)

The After Action Reports shall be signed by the project superintendent, the project QC Manager, the project SSHO, the UXOSO, UXOQCS, SUXOS, and geophysicist (DGM AAR only).

1.9.1 Anomaly Avoidance After Action Report (AAR) Not Used.

1.9.2 Digital Geophysical Mapping (DGM) After Action Report (AAR)

The DGM AAR shall include, but not be limited to the following:

1. Brief description of the DGM operations.
2. Summary of control points and GSV.
3. Detailed description of the GSV placement, survey, and results.
4. Dig list summary, basis for selecting anomalies, resulting polygons, and blinds seed results.
5. Describe data mapping and anomaly selection, and include anomaly maps and dig lists as they relate to established grids. Describe areas not mapped.
6. Maps showing:
 - a. DGM survey as it relates to the established grids and project site.

b. Detailed grid maps as they relate to the dig list.

7. Additional supporting documents as appropriate to include but not limited to field logs, QC/QA Reports, QC data, raw data, etc.

1.9.3 Anomaly Investigation After Action Report (AAR)

The Anomaly Investigation AAR shall include all items identified in Section 1.9.1 Anomaly Avoidance AAR. Additional requirements include maps and summary data of any DGM efforts, maps and summary data of Geophysical System Verification to include Instrument Verification Strip and blind seed data, and a summary of digital data information. Additional supporting documents shall be included as appropriate for the project.

PART 2 PRODUCTS
Not Used.

PART 3 EXECUTION

3.1 Notice to Proceed (NTP) Criteria

Submittals required by this specification shall not cause delay, limit, or halt the start or progression of the design work and shall be developed in parallel to the design work.

The issuance of each Notice to Proceed shall be authorized only by the Contracting Officer. Each Notice to Proceed shall indicate contractor name/s, start dates, location, and specific work tasks.

3.2. Work Schedule for Subsurface Clearance Activities

The contractor shall schedule work appropriately to mitigate, to the greatest extent practicable, the impacts to base operations and the general public both on and off base. Scheduling shall include phasing as well as night and weekend work as necessary.

3.3 Engineered Barriers / Bunker-in-Place

The contractor shall consider use of approved engineered barriers or other approved techniques to mitigate the impact of exclusion zones on quality of life, and base operations.

3.4 Community Outreach Not Used.

3.5 Enforcement of Exclusion Zones on Department of Defense (DOD) Property

The contractor shall be responsible for providing reasonable levels of verification and enforcement of identified exclusion zones during ESS activities.

Reasonable verification is defined as observations of exclusion zone no more than 6 hours prior to commencing intrusive investigations; should personnel be observed in the exclusion zone, the contractor shall verbally inform them of the scheduled work and request that they leave the EZ. Verbal contact is intended to remind the impacted occupants of the evacuation requirements and the time and duration when intrusive activities will commence.

Reasonable enforcement is defined as verbal notification and request to evacuate to any individual observed inside the EZ limits during anomaly investigation. The contractor is required to stop anomaly investigation while unauthorized personnel are within EZs. Should unauthorized personnel remain within the EZ after they have been verbally informed of the scheduled work and request to vacate, the contractor shall immediately notify the government point of contact in order of Engineering Technician, Construction Management Engineer, Supervisory Engineering Technician, Contract Specialist, Contracting Officer, Supervisory General Engineer, and FEAD/ROICC until positive contact is made. The contractor has no authority to detain or escort people out of the EZ.

Upon completion of the anomaly investigation activities in the established EZ the contractor shall notify the evacuees as soon as possible that they may return. Notification may be made by phone, text, social media, or other appropriate notification.

3.5.1 Enforcement of Exclusion Zones on non-DOD Property
Not Used.

3.6 Public Evacuation Process
Not Used.

3.7 Soil Excavation and Removal

Shall be in accordance with the latest versions of the Joint Region Marianas Explosive Safety Submission (JRM ESS) and NAVSEA OP 5 (Volume 1), except for CNO approved deviations outlined in Section 3.7.1. When the depth of intrusive activities exceeds the detection limits of the geophysical instruments used, soil shall be removed in layers to allow the detection and removal of MEC and/or MPPEH in the construction footprint.

3.7.1 Soil Excavation and Removal pursuant to CNO ES Exemption E1-16A (CNO Deviation)

1. Permits excavation in areas known or suspected of containing MEC and Material Potentially Presenting an Explosives Hazard (MPPEH) in the construction footprint, without removing soil in layers in accordance with NAVSEA OP 5 for excavation below 36-inches in depth from existing surface elevation unless MEC/MPPH greater than 60 mm is found on site.
2. For Compliance with CNO ES Exemption E1-16A the Contractor shall:
 - a. Conduct surface scan utilizing Digital Geophysical Mapping (DGM), magnetometer locating, or Advanced Technology / Munitions Classifier methodologies or a combination thereof.
 - b. Conduct initial soil clearance to the 20mm Target of Interest (TOI). Initial soil clearance shall be defined as clearance in layers for the top 36-inches of soil, or construction depth, or bedrock; whichever is the lesser depth. Bedrock shall be defined and documented by a licensed professional engineer, geologist or geophysicist.
 - c. Initial soil clearance shall be executed using limited clearance ahead of construction techniques (e.g. approximately 18-inch layers based on 60mm TOI detection limits, K18 distance, and shielding requirements) followed by processing excavated soil for screening to 20mm TOI per JRM ESS Section 6.1.3 or using full clearance ahead of construction (e.g.

approximately 6-inch layers based on 20mm TOI detection limits, K18 distance, and shielding requirements). Upon removal of each soil layer, repeat surface scan and prosecute all anomalies identified (or specific MEC/MPPH, if using advanced sensors) regardless of the depth of the anomaly down to construction depth or bedrock and complete soil clearance for each subsequent layer as required to reach the required depth for the initial soil clearance as indicated above. Regardless of the technique employed, the required exclusions zones shall be applied and the actual layer depth will be based upon site specific data (site noise measurements) as determined by the specific Instrument Verification Strip(s) (IVS) for each site. The number and location of the IVS(s) shall be based on the size, physical features, and geology of the project site. A report outlining the findings and recommendations resulting from the IVS(s) shall be provided to the Government.

- d. If no MEC/MPPEH greater than 60 mm is discovered from the initial soil clearance, soil can be excavated to construction depth or bedrock without further scanning or anomaly investigation by treating the area as low likelihood for MEC/MPPEH greater than 60 mm and meeting all associated requirements of the JRM ESS, unless/until a MEC/MPPEH is discovered on site. Exclusions Zones and protection measures for all personnel within the exclusion zone for MEC/MPPEH 60 mm or smaller shall be required for remaining excavation activities in accordance with the JRM ESS.
- e. Should MEC/MPPEH greater than 60 mm be discovered during or after the initial soil clearance all work within the exclusion zone shall cease, the contractor shall follow Section 3.9 of this specification, and an additional surface scan and secondary soil clearance shall be conducted to the 20mm TOI using full or limited clearance techniques as outlined in 2b. above. Secondary soil clearance shall be defined as soil depths from 36-inches to 54-inches or to construction depth or bedrock; whichever is the lesser depth, the volume of the secondary soil is approximately 14,406 CY. The horizontal limits of the secondary soil clearance shall be determined by a Project Delivery Team (PDT) headed by explosives safety personnel, and recommended to Commander, Joint Region Marianas. Secondary soil clearance shall be repeated within the limits set by the PDT for each instance MEC/MPPH is discovered. Should MEC/MPPEH greater than 60 mm be discovered during any secondary soil clearance, the above process shall be repeated in successive 18-inch layers and within horizontal limits defined by the PDT for each subsequent instance MEC/MPPEH is discovered or until construction depth or bedrock is reached. If no MEC/MPPEH is discovered in the secondary soil clearance or during any subsequent layer(s) (if required), soil can be excavated to construction depth or bedrock by treating the area as low likelihood for MEC/MPPEH greater than 60 mm and meeting all associated requirements of the JRM ESS. Exclusions Zones and protection measures for all personnel within the exclusion zone for MEC/MPPEH 60 mm or smaller shall be required for remaining excavation activities in accordance with the JRM ESS.
- f. Prior to re-using any excavated soil on site or removing it from the site, it shall be cleared using full clearance techniques in accordance with the JRM ESS and NAVSEA OP 5 or shall be screened to remove the 20mm TOI when limited clearance ahead of construction is utilized and for excavation beyond areas/depth that area required for MEC soil clearance in accordance

with the requirements of the CNO Deviation. Screening may either be done manually (spread into 6" layers, detect, and remove) or mechanically, using a 0.75" screen, observing all explosive safety precautions as required by the JRM ESS.

3.8 Imported Soils

The Contractor shall ensure that all imported soils are free of MEC/UXO/MPPEH item or materials. All imported soils shall be obtained from Government approved borrow pits or must be screened using a 0.75" screen prior to entering the project site or Government property.

3.9 Requirements When MEC/MPPEH is Encountered

Stop all work immediately if any material or object believed to be MEC/MPPEH is encountered and execute first response protocols immediately. Notify the UXO Technician III, UXOSO or SUXOS. Notify the CME as soon as possible. Follow procedures of the Work Plan.

MEC and MPPEH storage, transportation, and disposal will be accomplished by military EOD IAW JRM ESS.

The Contractor shall not blow-in-place or counter-charge any MEC/MPPEH encountered.

If MEC/MPPEH encountered is determined by the SUXOS to be unsafe to move, poses a threat to human health and the environment or represents an imminent and substantial endangerment to human health and the environment, execute first response protocols immediately. The Contractor shall also coordinate as soon as possible with Explosive Ordnance Disposal Mobile Unit Five (EODMU-5) or the appropriate EOD response team for further disposition.

If MEC/MPPEH encountered is determined by the SUXOS to be safe to move and does not pose a threat to human health or the environment, it may be moved and stored for the appropriate EOD response team for further disposition.

-- End of Section --