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Planning MEC Support For Construction Activities

Army IRP/MMRP Workshop
December 6, 2007

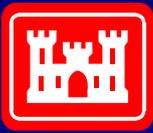


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Topics



- **Why Do I Have To Do This?**
- **Why Would I Want To Do This?**
- **When Do I Need to Do This?**
- **Anomaly Avoidance Procedures**
- **Construction Support Procedures**
- **Who Pays For All This?**



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Why Do I Have To Do This?



- **It's a DOD Requirement:**
 - 6055.9-STD, DOD Explosive Safety Standard
 - See revised Chapter 12, dated 12 Dec 2004
 - <http://www.ddesb.pentagon.mil/index.html>
- **It's an Army Requirement:**
 - Army Pamphlet 385-64
 - Ammunition and Explosive Safety Standards
 - http://www.apd.army.mil/pdf/p385_64.pdf



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USACE Guidance Document



- **EP 75-1-2**
 - MEC Support During HTRW and Construction Activities
 - <http://www.usace.army.mil/publications/eng-pamphlets/ep75-1-2/toc.htm>
- **Chapters Include:**
 - Planning Considerations
 - Statements of Work
 - Geophysical Detection Equipment
 - Anomaly Avoidance
 - Construction Support
 - RCWM Contingency Procedures



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Why Would I Want To Do This?



- **Protect Human Life**
- **Support Effective Master Planning**
- **Avoid Construction Delays**
- **Control Construction Costs**



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When Do I Need To Do This?



- **As Early As Possible**
 - Significant Time and Cost Implications
 - Consider Alternative Construction Sites
- **Information Needed:**
 - Operational Range Boundaries
 - Munitions Response Site Boundaries
 - Historical and Current Munitions Use
 - Installation Explosive Safety Policy
 - Construction or Intrusive Area Footprint



MEC Probability Determination



- **Installation Responsibility**
- **Low Probability**
 - Current or previous land use leads to an initial determination that MEC “MAY” be present
 - Risk – finding MEC later in a low probability area means you may have to revise that determination and increase the construction support requirements
- **Moderate to High Probability**
 - Current or previous land use leads to a determination that MEC “WAS” employed or disposed of in the area



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Anomaly Avoidance



- **Purpose is to avoid both surface MEC and subsurface anomalies locations**
- **Can only use if project is FLEXIBLE:**
 - Land surveying and archaeological survey work
 - IRP/MMRP soil sampling or well installation
 - Ability to relocate fence poles or utility trenches
 - Very small construction footprints
- **Intrusive anomaly investigation is not authorized!**

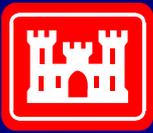


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Anomaly Avoidance



- **Work Plan supplements overall site plan**
 - MEC Specific Site-Specific Safety & Health Plan (SSHP)
 - Geophysical Instrumentation to be used
 - Anomaly Avoidance Team composition
 - Anomaly Avoidance Procedures:
 - Site Access – ingress/egress path widths & marking system
 - Subsurface Area – size of anomaly free area needed
 - Down-Hole survey technique – interval and total depth required
 - Actions if MEC is encountered on site

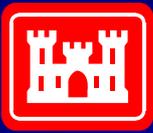


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Anomaly Avoidance



- **Anomaly Avoidance Team:**
 - At least 2 personnel
 - At least one must be EOD or UXO Technician II or above
- **Responsibilities:**
 - Conduct MEC safety briefings for ALL site personnel
 - Implements the work plan

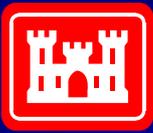


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Construction Support



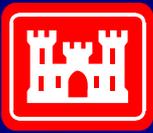
- **Purpose is to ensure safety of all personnel**
- **Must be used if project is Not Flexible:**
 - Building Construction
 - Major Road and Utilities Construction
 - Large Scale Soil Remediation
 - Target Emplacements
- **Intrusive anomaly investigation is required in order to complete construction!**



Types of Construction Support



- **MEC Standby Support**
 - When probability of encountering MEC is Low
 - Requires at least 2 EOD personnel or 2 UXO Technicians (one level III and one level II)
 - UXO team monitors all excavation activities
- **MEC Subsurface Removal**
 - When probability of encountering MEC is Moderate to High
 - Team size based on project size
 - Subsurface clearance precedes construction excavation activities



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Construction Support



- **Work Plan usually stands alone**
 - MEC Specific Site-Specific Safety & Health Plan (SSHP)
 - Geophysical Instrumentation to be used
 - Construction Support Team composition
 - Construction Support Procedures
 - MEC Disposal Procedures
 - Emergency Procedures
 - Explosives Safety Submission (for MEC Subsurface Removal)



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Construction Support



- **Explosives Safety Submission**

- Ensures compliance with DoD and Army Explosives Safety policy
- Long Lead Time Item – 4 to 6 months is typical
- Requires both USATCES and DDESB approval prior to starting work (although USATCES may grant permission to begin work pending DDESB approval)
- Requirements are specified in 6055.9-STD
- Not usually required for MEC Standby Support
- Not required for work operational ranges, as it is assumed you will comply with the existing ESS



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Construction Support



- **Additional Planning Considerations**
 - Underground Utilities and other Cultural Features
 - Exclusion zones and evacuation requirements
 - Geophysical mapping (prove out determination)
 - Anomaly excavation methods
 - MEC transport and/or destruction methods
 - Donor explosives management
 - Temporary explosives storage facility
 - MPPEH and munitions debris certification and final disposition



Who Pays for All This?



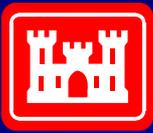
- **For MMRP eligible Munition Response Sites:**
 - Option 1 – ER,A (MMRP) Funding
 - If funding is available to meet the construction schedule
 - BRAC 05 / Army Transformation projects are a priority
 - Action must meet CERCLA (or RCRA) cleanup requirements
 - Option 2 – OMA Funding
 - If ER,A funding is not available or can't support the construction schedule
- **For sites on Operational Ranges:**
 - Primary Option – OMA Funding



Who Pays for All This?



- **For BRAC 2005 Sites:**
 - In some cases, Army BRAC office may elect to pay MEC Construction Support costs
 - Case by case basis based on site location, project priority
- **For MILCON Sites:**
 - In most cases, MILCON will not pay MEC Construction Support costs unless they are considered minor or incidental to the project
 - A legal review and decision is normally required to use MILCON funding for this purpose



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ER, A MMRP Funding



- Installation must notify the AEC ERM or MR Team:
 - Description of the project location, AEDB-R number, and current munitions response phase
 - What is the project and why is it needed? What is the driver (BRAC 05, RCI Housing, MILCON, etc.) ?
 - Timeframe of the project, drop dead date for funding to meet the construction schedule, when does project need to be complete
 - Cost estimate for the munitions response project
- AEC will determine the priority of the requests received:
 - If necessary, Obligation Plan will be adjusted
 - Phases and costs may need to be revised in AEDB-R and IAP
 - Expect insufficient funds to be available to support all requests



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Questions/Comments