

DATA ITEM DESCRIPTION

Title: Explosives Siting Plan

Number: OE-005-04.01

Approval Date: 20021001

AMSC Number:

Limitation:

DTIC Applicable: No

GIDEP Applicable: No

Office of Primary Responsibility: CEHNC-OE-CX

Applicable Forms:

Use/Relationship: The Explosives Siting Plan will be used to provide explosives safety criteria for planning and siting explosives operations at Ordnance and Explosives (OE) sites. This Data Item Description contains instructions for preparing Work Plan chapters addressing explosives siting procedures.

Requirements:

1. The Contractor shall, when required by the Government, submit an explosives siting plan that describes the safety criteria to be employed during OE operations.
2. The following distances and areas shall be described in the plan and sited on the Quantity –Distance (Q-D) map:
 - 2.1 Ordnance and Explosives Areas. Minimum separation distances for nonessential personnel, during OE operations, at an OE site shall be determined using the following criteria: distances in Chapter 5, paragraph C5.5.4, DOD 6055.9 STD, if the type of OE is unknown; the maximum fragmentation distance for the Most Probable Munition (MPM), as calculated by Huntsville Center’s Engineering Directorate; or when conditions and OE hazards permit, the minimum separation distance may be reduced to fit the situation, but in no case shall the distance be less than $1/600 \text{ ft}^2$, 200 ft, or the K50 based on over pressure, whichever is greater. The information on which distance to use will be furnished by the Government along with the calculation sheet determining the fragmentation distance. The distance shall be explained in the text of the plan, and Q-D arcs drawn on the map. When a reduction to the $1/600^2$ is authorized, both the $1/600^2$ and maximum fragment distance Q-D arcs will be shown on the map. The maximum fragmentation distance will be used for intentional detonations unless engineering controls are employed to reduce the fragmentation distance to within the $1/600^2$ distance. If engineering controls are used, the maximum fragmentation distance need not be shown on the map. Q-D Arcs shall be drawn from the outermost edge of the OE area.
 - 2.2 Planned or Established Demolition Areas. Minimum separation distance for all personnel shall be established based on the following criteria: distances in Chapter 5, paragraph C5.5.4, DOD 6055.9-STD; or the maximum fragmentation distance for the MPM at the site calculated by Huntsville Center’s Engineering Directorate. DDESB approved engineering controls may be employed when the minimum separation distances cannot be achieved. Proposals to use engineering controls, not approved by DDESB, will be accompanied by a detailed technical data package describing the design of the engineering control. The safe separation distance shall be explained in the plan and the distance arcs drawn on the map.
3. Foot Print Areas. The following footprint areas shall be addressed in the plan but do not have to be shown on the map:
 - 3.1 Blow-in-Place. Minimum separation distance for all personnel shall be determined using the criteria for established demolition areas.
 - 3.2 Collection Points. Collection points, if used, shall have the same minimum separation distance as the MPM for the site.
 - 3.3 In-Grid Consolidated Shots. Minimum separation distance for all personnel shall be determined using the criteria for established demolition areas. The contractor shall use the USAESCH procedures, approved by DDESB, for consolidate shots. These procedures may be downloaded from the USAESCH OE Home Page.

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4. Explosives Storage Magazines

4.1 Specify the type(s) of magazines used: commercial portable type, above ground, shed, earth-covered, etc.

4.2 Provide a tabulated list of the explosives, showing the Hazard Division (HD), Storage Compatibility Group, and total Net Explosives Weight (NEW) for each magazine. Generally, recovered OE is considered HD 1.1 unless there are obvious reasons it should not be.

4.3 Q-D criteria specified in Chapter 9, DOD 6055.9-STD shall be used to site the magazines at an OE site.

4.4 Provide a detailed technical data package or DDESB approval for any engineering controls to be used to mitigate exposures to the public when required Q-Ds cannot be met.

5. Site Map. The site map should be scaled at 1-inch equals 400 feet. A larger scale may be used if available and the map can be logistically included in the work plan. A smaller scale is acceptable if distances can be accurately shown. If an unscaled map is used, the map must have labeled distances.

6. End of DID OE-005-04.01.