

Navy Munitions Response Program — Explosives Safety Submissions

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Presentation Overview

- Requirements for an Explosive Safety Submission (ESS)
- ESS originator
- ESS format
- ESS review and concurrence
- ESS amendments and corrections



Experimental round (5-in projectile mounted on rocket motor) recovered from a landfill. Photo courtesy of U.S. Navy.



Requirements for an ESS (1)

- ESS required <u>before</u> the start of munitions response activities that involve:
 - The placement of explosives on a site;
 - The intentional physical contact with munitions; or
 - The conduct of ground-disturbing or intrusive activities in areas known or suspected to contain munitions and explosives of concern (MEC)
- This includes munitions response actions conducted by <u>or</u> for the Navy



Requirements for an ESS (2)

- ESS is required for:
 - Site investigation or characterization phases;
 - A determination of No DoD Action Indicated (NDAI) or No Further Action (NOFA);
 - A Time-Critical Removal Action (TCRA);
 - Construction support involving MEC removal in the construction footprint;
 - Execution of the selected MEC removal or remedial actions;
 - Former Navy property transferred after 17 Oct 86 known or suspected to be contaminated with MEC



Requirements for an ESS (3)

- ESS *may not* need to be submitted for:
 - Munitions responses on former small-arms ranges;
 - On-call construction support;
 - Activities employing anomaly avoidance techniques;
 - Construction or non-MR activities after discovering a single munitions item in an area not otherwise known or suspected of having MEC
- ESS *is not* required for:
 - Munitions or explosives emergency responses;
 - Munitions clearance activities on operational ranges;



ESS Originator

- The Navy project manager having responsibility for executing the munitions response at the contaminated site originates the ESS in accordance with the requirements of OP5
- An ESS is a planning document and is <u>not</u> a substitute for required work plans or standard operating procedures



Munitions recovered from a closed bombing range. Photo courtesy of U.S. Navy.



ESS Format

- Format currently provided in OP5 Table 2-2, "Outline of an Explosives Safety Remediation Plan"
 - General description
 - Maps
 - MEC description
 - Land use controls
 - Public involvement



 Draft NAVSEAINST 8020.X, Enclosure 2 expands on this list and requires more detailed information Ee 💼

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NAVSEAINST 8020.X (Version 11)

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Enclosure 2

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GUIDELINES FOR PREPARING AN EXPLOSIVES SAFETY SUBMISSION

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Instructions for use:

This is intended to guide the Navy project manager in preparing an Explosives Safety Submission (ESS) for a munitions response site. Each information category must be addressed in sufficient depth to allow the Naval Ordnance Safety and Security Activity (NOSSA) to evaluate the site and the munitions response actions that are being proposed. Information provided to NOSSA in the ESS will serve as the basis for their approval or disapproval of the proposed actions.

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SECTION	DESCRIPTION
1. Project	Provide a brief discussion of:
Summary	a. Why munitions and explosives of concern (MEC) are known or suspected in the specific area(s) covered by the submission.
	 b. Conclusions from previous studies and reports of ordnance contamination at the site.
	c. The suspected type and amount of ordnance contamination at the site,
	based on historical research or previous sampling. (Cite references for provided information.)
	d. Planned future use of the property.
	e. Remediation goals (e.g. clearance depth, assessment depth) for the proposed response action.
	f. The type of munitions response action (removal, remedial, etc.) proposed and where in the CERCLA process this response action fits.
2. Maps	 a. Regional Map. A map that shows the regional location of the munitions response area (MRA) or munitions response site (MRS) (e.g., a state map with the MRA indicated on it).
	 b. Activity Map. MRA or MRS maps. Maps of the area or areas at which the munitions response is planned. These maps will indicate: (1) The MEC areas covered by the submission (2) Show pearly MEC areas not
	covered by this submission and explain them. (Supporting narrative to be
22 At 7" Ln 3	37 Col 6 REC TRK EXT OVR



ESS Review and Concurrence

- Originators will submit all ESSs to NOSSA for review
 and concurrence
 - Prior to submission of an ESS to NOSSA, preparers shall consult and coordinate with their activity and/or regional Explosives Safety Officer (ESO)
 - As appropriate, NOSSA will endorse and submit ESSs to DDESB for their review and concurrence
- NOSSA and DDESB will review and approve ESSs as expeditiously as practicable
 - Anticipate one month each for NOSSA and DDESB to complete review and approval process
 - Munitions response field operations are **not** authorized to begin until the ESS is reviewed and approved by NOSSA and/or DDESB



ESS Amendments and Corrections (1)

- Amendments
 - Changes to an ESS that increase explosives safety risks or identify requirements for additional or increased explosives safety controls
 - A change in the reasonably anticipated future land use of the property changes response requirements
 - A change in the response depth changes the planned reuse
 - There is a change in land use restrictions (these are to be placed in land transfer documents)
 - A change in the estimated MEC depth causes a change in the clearance depth



ESS Amendments and Corrections (2)

- Amendments (cont'd)
 - There is a change in the clearance depth from below the frost line to above it
 - The removal action incorporates new or modified engineering controls
 - The change to quantity-distance (Q-D) arc
 - A new magazine storage area or waste military munitions treatment site is established
- Corrections
 - Changes that are primarily administrative in nature, and are provided for information purposes only
 - Address departures from an approved ESS that do not increase explosives risk or exposure





