

60% Remedial Design

Volume II – Part II

Emergency Response Plan Outline

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The Remedial Action Contractor (contractor) will be required to develop an *Emergency Response Plan* (ERP) as part of its Remedial Action Work Plan (RAWP) to establish response procedures in the event of an accident or emergency during construction to conform with the project requirements described in Lower Duwamish Waterway middle reach Specifications (Volume III) Sections 01 35 29 (Health and Safety) and 01 35 43 (Environmental Procedures). The RAWP (and ERP) must be submitted to and approved by the Owner and U.S. Environmental Protection Agency prior to Notice to Proceed of Contract Award, in accordance with Specification Sections 01 33 10 (Submittals) and 01 33 10A (Submittal Control Document). No construction activities may be performed by the contractor prior to the approval of the RAWP.

Emergencies during construction may be related to, but not limited to, hazardous materials (visible or odorous chemical contaminants); general physical hazards (road and vessel traffic/operations, moving equipment, sharp/hot/slippery/uneven surfaces, falling overboard, manual lifting, etc.); presence of equipment (live electrical wires or equipment; underwater pipelines or cables); vessel and boat operations (unsafe boating practices or equipment failure while operating a boat); vessel traffic (unsafe boating practices or equipment failure during navigation); fires or explosions; and personal injury, spills, and spill containment.

The ERP must include the information described in the following outline:

1. Introduction: Describe the scope and purpose of the ERP.
2. Pre-Emergency Planning
 - a. Emergency Recognition and Prevention: Describe procedures for identifying potential hazards related to (but not limited to) hazardous materials, vessel operations, fires, personal injury, spills, and spill containment. Describe the protocols for minimizing risks.
 - b. Minimum Required Emergency Equipment: Describe emergency equipment that will be available and maintained on the Work Site.
 - c. Plans for Meetings: Describe plans for meetings with the local community, including local, state, and federal agencies involved in the cleanup, as well as local emergency squads and hospitals.
3. Personnel Roles and Responsibilities: Describe the responsible parties and chain of command in the case of an emergency, including the following: Emergency Coordinator, Emergency Support, and Emergency Response Contacts.
4. Emergency Response Measures: Describe emergency response measures, including (but not limited to) the following:
 - a. Emergency alerting and preliminary response procedures
 - b. Hazard communication to contractor employees and subcontractors
 - c. Safe distances and places of refuge

- d. Site security and control
 - e. Evacuation routes and procedures
 - f. Decontamination procedures
 - g. Emergency medical treatment and first aid
5. Notifications: Describe notifications in case of an emergency.
- a. Emergency Notifications: Define those notification activities to be undertaken in the event of the need of outside emergency services such as fire, police, and/or ambulance and in the event of a release of hazardous substances requiring reporting under Section 103 of Comprehensive Environmental Response, Compensation, and Liability Act (42 *United States Code* [USC] 9603) or Section 304 of the Emergency Planning and Community Right-to-Know Act (42 USC 11004).
 - b. Contacts: Provide the names, contact phone numbers, and roles of individuals to be notified in case of emergency.
6. Reporting: Describe reporting and documentation to be completed following an emergency, including the following:
- a. Follow-up reporting and documentation
 - b. Emergency response critique and lessons learned
7. Revisions to ERP During Construction: Describe potential revisions and updates to the emergency procedures, as required and necessary (i.e., new or changing site conditions or information) and resubmittal procedure to the Resident Engineer for additional review.
8. Plan Attachments
- a. Spill Prevention, Control, and Countermeasure Plan, consistent with the regulations under 40 *Code of Federal Regulations* 112, describing measures to prevent—and contingency plans for—spills and discharges, and in accordance with requirements in Specification Section 01 35 43 (Environmental Procedures)

The ERP must be compatible with the disaster, fire, and/or emergency response plans of local, state, and federal agencies, as appropriate for in-water construction work.