

## APPENDIX C

### ENGINEERING CONSIDERATIONS AND INSTRUCTIONS (ECI) FOR HTRW PROJECTS

C-1. Delivery of quality projects to our customers is our basic mission strength. It takes the collective efforts of many to fulfill this responsibility; however, Engineering and Construction are two elements whose performance have a direct bearing on the quality of our projects and thus on the level of customer satisfaction. It is, therefore, imperative that Construction Division be provided complete and accurate information on project designs. The plans and specifications are the vehicle for turning our designs into reality and they contain the information needed to construct the project as designed. In certain situations it would be desirable to provide additional information to Construction field personnel to ensure they have all the tools they need to construct quality projects.

C-2. Therefore, all design elements are required to prepare an Engineering Considerations and Instruction (ECI) document for certain HTRW site characterization and construction projects. ECI will be prepared for all site characterization or pilot study projects with unique investigation methods or where additional discussion is necessary to familiarize oversight personnel with site characterization requirements. The ECI will describe project activities intended to collect critical design data that need to be monitored or verified by oversight personnel. As a general rule, for construction projects the ECI should be reasonably short – no more than five pages – and should be prepared for those projects with estimated construction costs greater than \$10M, or as determined by the designer or Chief of Engineering Division as requiring special attention. This document is to be provided to Construction Division prior to the 90% design submittal.

C-3. The ECI will be a brief document outlining the engineering considerations used to formulate and design the project. The document should include discussions on why specific designs and material sources were selected, features which may require special attention, any particular user requirements, and other project-specific information deemed useful to provide field personnel the insight and background necessary to review contractor proposals and resolve minor construction or characterization problems without compromising the design intent. The ECI should also include a schedule of visits to the construction site by design personnel.

C-4. It should be noted that the ECI is not a contractual document and should not be used to supplement the plans and specifications, nor should it be in conflict with the contract requirements.