

## Lessons Learned Database

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**Discussion:** The National Nuclear Security Administration (NNSA) Uranium Processing Facility (UPF) Project Office (UPO) employed the U. S. Army Corps of Engineers (USACE) as their Design Agent and Construction Manager for the UPF Construction Support Building (CSB), which was a primary deliverable for the UPF Site Infrastructure and Services (SIS) subproject on the Y-12 National Security Complex in Oak Ridge, TN. The Y-12 Management and Operating (MO) Contractor served as the Design Authority. Other than providing the CSB Performance Specification, the Y-12 Design Authority and system owners did not participate in writing or reviewing the USACE CSB Design / Build Request for Proposal (RFP). Accordingly, several Y-12 requirements applicable to this work were not incorporated into the RFP. After USACE awarded the CSB Design / Build contract, the Y-12 Design Authority, system owners and Authorities Having Jurisdiction (AHJs) selectively participated in the USACE design charrettes and introduced some of the applicable Y-12 Plant requirements. This resulted in modifications to the USACE CSB Design / Build contract and the corresponding design rework. The Y-12 Design Authority subsequently concurred with the final CSB design. Later, during construction and the USACE final inspections, previously un-involved Y-12 systems owners and AHJs communicated additional Y-12 Plant requirements resulting in additional USACE contract modifications and construction rework.

**Analysis:** The CSB was the first major UPF project deliverable for which the Y-12 MO Contractor was not the Design Agent. Although the Y-12 MO Contractor retained the Design Authority function, USACE served as the Design Agent. This relationship resulted in some inefficiencies as all parties clarified the respective roles and responsibilities. Accordingly, the Y-12 Federal leadership published UPO-P-95-A013, Memorandum of Agreement Between the UPF Federal Project Director and the NNSA Production Office (NPO) Manager Regarding UPF Project Design Authority and Owner's Representative Responsibilities. This memorandum should reduce the risk of similar inefficiencies on Y-12 infrastructure projects.

**Recommended Actions:** - Integrate all stakeholders during the solicitation phase of NNSA infrastructure projects, with direct Federal managers leading the effort.  
- Include all Authorities Having Jurisdiction (AHJs) and system owners that will participate in final inspections and sign turnover documents in writing the solicitations for NNSA infrastructure projects.

**Savings:****Authorized Derivative Classifier:** W.T. Mallison**Lessons Learned Coordinator:** Dan Crowe**Site:** Y-12 National Security Complex**Originating Organization or Contracting Company:** NNSA UPO**Project Name:** NA - Uranium Processing Facility**Title:** UPF Construction Support Building Interfaces**References:****Subject Matter Experts:****Critical Decision(s):** CD-2, CD-3**Facility Type(s):** Production - NonNuclear**Priority Descriptors(s):** Blue = Information**Relevancy Rating(s):** 4 = Never**Work Function(s):** Engineering Design and Construction-Non-nuclear**Technical Discipline(s):** Civil/Structural**Attachments:**

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