



SSO Assessments of CSE

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What is the interest level / need for developing generic or specific CRADs for SSOs to use in assessing the Contractor System Engineer program implementation?

Purpose of this session is to solicit input from SSO community



Federal Technical Capability Panel (FTCP)

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Safety System Oversight 

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2011 Safety System Oversight/Facility Representative Workshops.

SSO Workshop: May 12-13, 2010

- [Agenda PDF](#)
- [Click here to view the workshop Summary](#)
- [Click here to view the workshop presentations](#)

SSO Steering Committee Meeting Minutes: May 12, 2010 PDF

SSO competencies and FAQs Options PDF



SSO Responsibilities – DOE O 426.1

2. DUTIES AND RESPONSIBILITIES.

a. SSO Personnel.

- (1) Maintain communication and oversight of systems and monitor performance of the contractor's Cognizant System Engineer Program.
- (2) Attend selected contractor meetings with FRs and contractor personnel responsible for system performance (e.g., cognizant system engineers, design authorities, and program managers), review system health/status reports, review test results, interface with external organizations that can provide insights on performance, and perform other oversight activities on a routine basis.
- (3) Perform assessments, periodic evaluation of equipment configuration and material condition. The effect of aging on system equipment and components, the adequacy of application of work control and change control processes, and appropriateness of system maintenance and surveillance should be considered with respect to reliable performance of safety functions.



SSO Responsibilities – DOE O 426.1

- (4) In conjunction with FRs, perform evaluations of contractor troubleshooting, investigations, root cause evaluations, and selection and implementation of corrective actions. SSO personnel may also be requested to respond to off normal and/or off normal hours events and investigations and be able to provide relevant insights and serve as the DOE recognized expert on issues related to assigned areas.
- (5) Provide support to other Federal employees as appropriate. This may include program and project managers responsible for supervision of facility safety systems installed in new and modified facilities. It may also include those managing the implementation of ISM in the operation, maintenance, and configuration management of facility safety systems.
- (6) Assess contractor compliance with relevant DOE regulations, industry standards, contract requirements, safety basis requirements, and other system requirements.



SSO CRADs - Questions

Could be compiled and posted on SSO website:

- Should they be vetted / blessed?
- Should they be considered best practice?

Should SSO CRAD be:

- Generic – i.e., provide basic approach for any system that would be tailored for each system by the SSO?
- Specific – i.e., develop specific as possible CRAD for specific systems (e.g., ventilation)?
- Combo?

Bottom line – is this worth pursuing and would be of sufficient benefit to offset energy required to put into place?

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CSE CRAD

Criteria Review and Approach Document

1. SAFETY SYSTEM ENGINEERING/CONFIGURATION MANAGEMENT

Performance Objective 1: The safety system is properly identified and its functional requirements and performance criteria are developed sufficiently to ensure that the system can provide defined essential safety functions. The safety system is supported by proper configuration management, design control, and procurement processes. (See 10 CFR 830, DOE O 420.1B.)

1.1 Safety SSC Identification

Criteria

1. Safety basis documents adequately describe the safety system's safety functions, functional requirements, and performance criteria that the system must meet to accomplish its safety function.
2. The safety SSC, including supporting systems essential for performing the safety function, can be identified in approved safety basis documents.
3. Qualified System Engineers in the applicable disciplines (mechanical, electrical, instrument and control, software, fire protection) are assigned to the safety system. (DOE O 420.1B)
4. Safety basis documents define functional requirements that adequately address pertinent response parameters or nonambient environmental stresses related to the accident conditions that the safety function is being relied upon.