



U.S. DEPARTMENT OF
ENERGY



Office of Safety and Quality Assurance

Contract Requirements

Purpose

The purpose of this presentation is to inform prospective offer of the Management & Operating Contract at Savannah River Site about the requirements for programs that fall under oversight responsibility for the Office of Safety and Quality Assurance.

Scope

The scope of this presentation is to inform perspective contractors of the functional areas that require program development in accordance with contract requirements. Functional areas include:

- Quality Assurance
- Training and Qualification
- Maintenance
- Radiation Protection
- Fire Protection
- Packaging & Transportation
- Occupational Safety & Health
- Nuclear and Process Safety
- Contractor Assurance System

SRID functional area program documents must be approved by DOE as required per contract and in accordance with deadlines listed in contract transition.

Quality Assurance

Quality Assurance Program (QAP) compliant with DOE O 414.1D, Change 1, *Quality Assurance*, for all facilities and activities. Additionally, nonreactor nuclear facilities (as defined in 10 CFR 830, *Nuclear Safety Management*, Section 830.3, *Definitions*) must be compliant with 10 CFR 830, *Nuclear Safety Management*, Subpart A, *Quality Assurance Requirements*. The Contractor shall utilize the Contractor Assurance System (CAS) per DOE O 226.1B, *Implementation of Department of Energy Oversight Policy*, to monitor and evaluate all work performed under this Contract, including work of subcontractors, to ensure work performance meets the applicable requirements for environment, safety, and health, including quality assurance and integrated safety management; safeguards and security; cyber security; and emergency management.

The QAP must describe how the quality assurance criteria from DOE O 414.1D, 10 CFR 830, Subpart A, and the Quality Assurance Requirements and Description (QARD) (as applicable) are satisfied. The Contractor shall use voluntary consensus standards in the development and implementation of the QAP, where practicable and consistent with contractual and regulatory requirements. Where appropriate, the Contractor must use a graded approach to implement the QAP that is commensurate with hazards, lifecycle of facilities and other risks.

Training and Qualification

DOE O 426.2 requires contractor must establish selection, training, qualification, and certification requirements for contractor personnel who can impact the safety basis through their involvement in the operation, maintenance, and technical support of Hazard Category 1, 2, and 3 nuclear facilities. The Systematic Approach to Training as defined in the Contractor Requirements Document (CRD) of this Order is designed to ensure that these personnel have the requisite knowledge, skills and abilities to properly perform work in accordance with the safety basis. The Nuclear Safety Management rule, 10 CFR 830, requires Quality Assurance Programs and Documented Safety Analyses to address training. The training programs established to comply with this Order support those requirements.

The Order requires that DOE approve the contractor Training Implementation Matrix (TIM) or succeeding training program description or plan (TPP) and 2) contractor procedures that are established to release an individual from portions of a training program through prior education, experience, training, and/or qualification/certification.

Maintenance Program

DOE O 433.1B defines the safety management program required by Title 10 Code of Federal Regulations (CFR) 830.204(b)(5) for maintenance and the reliable performance of structures, systems and components (SSCs) that are part of the safety basis required by 10 CFR 830.202 at hazard category 1, 2 and 3 Department of Energy (DOE) nuclear facilities.

Radiation Protection Program

10 CFR 835 Occupational Radiation Protection rule that establish radiation protection standards, limits, and program requirements for protecting individuals from ionizing radiation resulting from the conduct of DOE activities.

Contractors are required to submit a Radiation Protection Program for approval by DOE per 10 CFR 835.

Fire Protection

DOE O 420.1C , *Facility Safety*, requires contractor to establish facility and programmatic safety requirements for:

- Nuclear safety design criteria
- Fire protection
- Criticality safety
- Natural phenomena hazards (NPH) mitigation
- Cognizant system engineer (CSE) program

Contractors are required to submit these facility and programmatic documents to DOE for approval.

Packaging and Transportation

DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*, establishes safety requirements for the proper packaging and transportation of offsite shipments and onsite transfers of hazardous materials, including radioactive materials.

The Department's packaging and transportation activities must be conducted in a manner that achieves an equivalent level of safety to that are required by Department of Transportation (DOT) and Nuclear Regulatory Commission (NRC) for comparable commercial shipments.

Contractors are required to submit Packaging and Transportation program documents for approval by DOE.

Worker Safety and Health

10 CFR 851 Worker Safety and Health Program Rule:

- Applies to contractor activities at DOE Sites (in furtherance of DOE Missions);
- Establishes: (1) Requirements for worker safety and health program and (2) procedures for investigating whether a violation has occurred;
- All SRS contractors must obtain SR Manager approval for their Worker Safety and Health Program prior to starting work on site; and
- Some mandated Functional Areas include: Industrial Safety, Industrial Hygiene, Occupational Medicine, Construction safety, Electrical Safety, Fire Protection and Motor Vehicle Safety.

Nuclear Safety Management

10 CFR 830 governs the conduct of DOE contractors, DOE personnel, and persons conducting activities (including providing items and services) that affect or may affect the safety of DOE nuclear facilities.

Contractors are required to submit Safety Basis documents for approval by DOE.

Contractor Assurance System

The Contractor shall utilize the Contractor Assurance System (CAS) per DOE O 226.1B, *Implementation of Department of Energy Oversight Policy*, to monitor and evaluate all work performed under this Contract, including work of subcontractors, to ensure work performance meets the applicable requirements for environment, safety, and health, including quality assurance and integrated safety management; safeguards and security; cyber security; and emergency management.

The CAS system will leverage effective performance metrics to detect organizational performance weakness and drive corporate improvements across the SRS enterprise.