

QUALITY ASSURANCE (QA)

OBJECTIVE

QA.1: NNSA Site Office has implemented a quality assurance program (QAP) that complies with DOE nuclear safety requirements and the Site Office oversight processes and procedures have ensured that an effective quality assurance program has been implemented by the Site Contractor.

NOTE: Some attributes of this CRAD are evaluated in other functional areas such as training, conduct of operations, and integrated safety management. References will be made to other areas as necessary.

CRITERIA

1. The NNSA Site Office QAP associated with nuclear facilities is approved and documented, and activities meet or exceed the requirements of DOE O 414.1C and QC-1, *Weapon Quality Policy* (NA-1 SD 411.1-1C, DOE O 414.1C).
2. The Site Contractor has submitted, and the Site Office Manager has approved, a QAP that meets the contractual quality assurance requirements for nuclear facilities and activities (10 CFR 830 Subpart A, NA-1 SD 411.1-1C, DOE O 414.1C).
3. The Site Office has feedback and improvement and oversight programs in place that ensure that Site Office and contractor QAPs remain effective (DOE O 226.1A, NA-1 SD 226.1A, NA-1 SD 411.1-1C).
4. Issues identified during previous reviews (e.g. CDNS Biennial Reviews, HSS reviews, self-assessments) have been appropriately resolved, corrective actions have been completed and are adequate, or a clear path to completion is indicated (DOE O 226.1A; NA-1 SD 226.1A).
5. The Site Office has sufficient staff, and assigned personnel have adequate technical competence, to oversee the performance of the contractor in this functional area (NA-1 SD 411.1-1C).

APPROACH

References:

- 10 CFR Part 830, *Nuclear Safety Management*
- DOE O 226.1A, *Implementation of Department of Energy Oversight Policy*
- DOE O 414.1C, *Quality Assurance*

- DOE G 414.1-2A, *Quality Assurance Management System Guide for Use with 10 CFR 830 Subpart A, Quality Assurance Requirements, and DOE O 414.1C, Quality Assurance*
- DOE G 414.1-4, *Safety Software Guide for Use with 10 CFR 830 Subpart A, Quality Assurance Requirements, and DOE O 414.1C, Quality Assurance*
- NA-1 SD 411.1-1C, *NNSA Safety Management Functions, Responsibilities and Authorities Manual (FRAM)*
- NA-1 SD 226.1A, *NNSA Line Oversight and Contractor Assurance System Supplemental Directive*

Record Review:

- Review the FRAM, 10 CFR 830 Subpart A, QC-1, appropriate DOE Orders and Manuals (e.g. DOE P 450.4, DOE P 226.1A, DOE O 414.1C, and DOE G 414.1-2A), and the Contractor and Site Office QAPs to determine if a Quality Assurance Program has been properly established in accordance with DOE 414.1C and QC-1.
- Review approved NNSA Site Office procedures used to implement the QAP (e.g., administrative procedures, organizational charts, position descriptions, or internal memoranda) to determine the extent to which these procedures establish the roles, responsibilities, interfaces, and staffing levels for the quality assurance organization.
- Review NNSA Site Office procedures and organizational information to evaluate the approval and oversight mechanisms of the contractor's QAP.
- Review NNSA Site Office assessments and operational awareness information concerning the contractor QAP. Evaluate assessments and feedback and improvement mechanisms that demonstrate effectiveness of the contractor's QAP.

Interviews:

- Interview selected NNSA Site Office line managers and personnel who are assigned QA responsibilities to determine if they are familiar with their roles, responsibilities, and interfaces with respect to the NNSA Site Office QAP and oversight of the approved Site Contractor QAP. Verify that these personnel have adequate knowledge of NNSA Site Office and Site Contractor QA procedures.

Observations:

- Select and observe a QA-related self-assessment activity within the NNSA Site Office organization.