

NUCLEAR EXPLOSIVE SAFETY (NES)

OBJECTIVE

NES 1: The Site Contractor has developed, and the NNSA Site Office has verified, the effective implementation and maintenance of fully compliant Nuclear Explosive and Weapon Surety (NEWS) and Nuclear Explosive Safety Operations programs.

CRITERIA

1. The NNSA Site Office has established a compliant NEWS program. Assessments and reviews are accomplished within the required periodicity. Issues are identified; corrective actions are planned, completed, and their effectiveness evaluated (DOE O 452.1C, NA-1 SD 411.1-1C, *NNSA Functions, Responsibilities, and Authorities Manual (FRAM)*).
2. NNSA Site Office personnel training and qualification programs in support of nuclear explosive activities are fully compliant with programmatic expectations and meet all requirements of the Federal Technical Training Program (DOE O 360.1B; DOE O 452.2C).
3. The NNSA Site Office has established a fully compliant Nuclear Explosive Safety Program (DOE O 452.2C, 10 CFR Part 830).
4. NNSA Site Office oversight is adequate and effective (DOE O 452.2C; DOE P 450.4; DOE P 226.1A).
5. 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.
6. The Site Office has sufficient staff, and assigned personnel have adequate technical competence, to oversee the performance of the contractor in this functional area.

APPROACH

References:

- 10 CFR Part 830, *Nuclear Safety Management*
- DOE P 226.1A, *Department of Energy Oversight Policy*
- DOE O 360.1B, *Federal Employee Training*
- DOE P 450.4, *Safety Management System Policy*
- DOE O 452.1C, *Nuclear Explosive and Weapons Surety Program*

- DOE O 452.2C, *Nuclear Explosive Safety*
- NNSA FRAM

Record Review:

- Review NNSA Site Office, Site Office NEWS, and Nuclear Explosive Operations directives and implementing mechanisms.
- Review training and qualification material and records; feedback and improvement plans, records, and reports; Nuclear Explosive Safety Study (NESS) reports and Documented Safety Analysis review team records, including Safety Evaluation Reports.

Interviews:

- Interview NNSA Site Office personnel responsible for programmatic management or oversight of Nuclear Explosive Operations.

Observations:

- Observe NESS and NEWS activities, NNSA Site Office oversight activities, and Federal personnel training and qualification activities.