

Activity Inspection

1.0 Purpose This guideline provides a basis for the performance of surveillance on inspection activities to ensure that inspection personnel possess the required job-related knowledge and skills to verify the attainment of quality in each activity inspected.

2.0 Scope This guideline has been developed to review and evaluate, as a minimum, the following types of activities associated with the inspection function:

- Scope of activities selected for on-site facility and contractor inspection.
- Method of selection of elements to be verified.
- Adequacy of performance of the inspections.
- Feedback mechanism for inspection results.

References

1. ANSI 45.2.4.
2. ANSI 45.2.6.
3. ANSI 45.2.8.
4. ANSI 45.2.15, "Hoisting, Rigging and Transporting of Items for Nuclear Power Plant Sites."
5. NRC Inspection Module 55050, "Nuclear Welding General Inspection."
6. NRC Inspection Module 55100, "Structural Welding General Inspection."

3.0 Guidelines

3.1 In preparation for and during the conduct of this surveillance

- Obtain and review implementing procedures, instructions, and drawings governing this activity.
- Prepare a guide or checklist using the selected items from this guideline.
- Review past surveys, audits, surveillances, and other evaluations/assessments.
- Ensure that checklists include, where applicable, actual observations of performance, general plant conditions, radiological work practices, housekeeping, work document controls and use, and safety practices.

Note: Refer to Chapter 1 for specific details on the attributes listed above.

3.2 Review the selection of activities subject to the assignment of inspection tasks (safety-related, corrective, preventive, predictive maintenance, modifications, tests, welding) to verify that activities critical to the safety and reliability of the unit are inspected.

3.3 Verify that the selection of task elements identified for inspection are based on the appropriate criteria as follows:

- A. The element has a direct impact on the functional capability of the component.
- B. The element has a documented statistical basis for selection.
- C. Failure analyses have been documented which identify the task as critical to established failure mechanisms.

3.4 Verify that the identified elements are adequately identified in the implementing work documentation such that the inspection is completed when the task is completed and before latter required tasks are initiated.

3.5 Witness the performance of a selected sample of inspections to verify the following:

- A. Inspector is knowledgeable of the task.
- B. The acceptance criteria is known and discernible.
- C. Deficient attributes are identified and documented.
- D. The task is witnessed as performed in such a way that inadequate performance can be identified.
- E. Feedback is provided for the work process and inspection program.
- F. Test equipment is in current calibration.

3.6 Verify that the inspection attributes are documented and maintained as a permanent plant record.

3.7 Verify that the inspectors are qualified and certified in the discipline being inspected.

4.0 Other Guidelines for Consideration

- 4.1 See Chapter 1, "General Quality Surveillance Guidance."
- 4.2 See Chapter 12, "Corrective Maintenance."
- 4.3 See Chapter 12, "Predictive Maintenance."
- 4.4 See Chapter 12, "Preventive Maintenance."
- 4.5 See Chapter 20, "Qualification and Certification."