

NRC INSPECTION MANUAL

PRPB

INSPECTION PROCEDURE 83726

CONTROL OF RADIOACTIVE MATERIALS AND CONTAMINATION, SURVEYS, AND MONITORING

PROGRAM APPLICABILITY: 2561 Appendix B

SALP: Radiological Controls

83726-01 INSPECTION OBJECTIVE

To determine whether the licensee effectively controls radioactive materials and contamination, and performs adequate surveys and monitoring.

83726-02 INSPECTION REQUIREMENTS

02.01 Audits and Appraisals. Review the results of audits performed by or for the licensee since the last inspection and the adequacy of the licensee's commitments and corrective action.

02.02 Changes. Review changes in instrumentation, equipment, and procedures made since the last inspection.

02.03 Surveys and Monitoring. Determine whether survey and monitoring activities are performed as required.

02.04 Radioactive Materials and Contamination Controls. Determine whether control of radioactive materials and contamination meets requirements.

83726-03 INSPECTION GUIDANCE

03.01 Audits and Appraisals

- a. Review reports of required audits since the last inspection. Look particularly for those audits that probe for programmatic weaknesses and assess the quality of the program. Focus upon licensee follow up actions for identified deficiencies. Are corrective actions timely and technically acceptable?

Requirements for reviews and audits normally are contained in the technical specifications. Audit teams should include someone with experience or training commensurate with the scope, complexity, or special nature of the activities audited (Regulatory Guide 1.146 and ANSI/ASME N45.2.23-1978, Section 2.2).

- b. Review reports of other audits, appraisals, assessments, evaluations, etc. that may provide information on program quality.

03.02 Changes

- a. Discuss changes in equipment and procedures with cognizant management. If changes have been made to survey and monitoring equipment for emergency operations, determine whether the licensee continues to meet commitments.
- b. By direct observation and discussion, determine whether workers are aware of and understand the changes.

03.03 Surveys and Monitoring. Aspects of surveys and monitoring that may be examined include:

- a. Adequacy of supply, maintenance, and calibration and performance checks of survey and monitoring instruments, including special calibration procedures for high-range instruments.
- b. Proper use of portal monitors and friskers.
- c. Adequacy of surveys necessary to assess personnel exposure because of skin contamination.
- d. Adequacy of survey practices, including technician awareness of limitations of the survey instruments.
- e. Timely dissemination of survey data and information on plant conditions for use in work planning and dose control.
- f. Records of surveys and review of survey results by health physics supervision/management.

03.04 Radioactive Materials and Contamination Controls. Aspects of radioactive materials and contamination controls that may be examined include:

- a. Evaluation of personal contamination.
- b. Proper contamination control work techniques and prompt correction and cleanup of contamination.
- c. Efforts to reduce the volume of contaminated trash including steps to minimize introduction of uncontaminated material into contaminated areas.
- d. Surveys, monitoring, and releases of potentially contaminated material to unrestricted areas. (See IE Bulletin No. 80-10, IE Circular No. 81-07, and IE Information Notice No. 80-22.)

83726-04 REFERENCES

Regulatory Guide 1.97, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant Conditions During and Following an Accident."

Regulatory Guide 1.101, "Emergency Planning and Preparedness for Nuclear Power Reactors."

Regulatory Guide 1.146, "Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants."

Regulatory Guide 8.12, "Criticality Accident Alarm Systems."

Regulatory Guide 8.25, "Calibration and Error Limits of Air Sampling Instruments for Total Volume of Air Sampled."

NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980.

NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980.

NUREG/CR-2956 (PNL-4471), "Neutron Dosimetry at Commercial Nuclear Plants," March 1983.

ANSI N13.1-1969 (R 1982), "Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities."

ANSI N323-1978, "Radiation Protection Instrumentation Test and Calibration."

ANSI/ANS-HPSSC 6.8.1-1981, "Location and Design Criteria for Area Radiation Monitoring Systems for Light-Water-Nuclear Reactors."

ANSI/ANS 8.3-1979, "Criticality Accident Alarm System."

ANSI/ASME N45.2.23-1978, "Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants."

INPO Report 82-001-EPN-01, "High Sensitivity Portal Monitors - A Review," January 1982.

INPO Good Practice 82-001-FDO-02, "Modular Contamination Enclosures," September 1982.

INPO OEN-01, "Strippable Decontamination Coatings," November 1981.

INPO Good Practice 82-001-OEN-10, "Monitoring Personnel for Radioactive Contamination," September 1982.

IE Bulletin No. 80-10, "Contamination of Nonradioactive Systems and Resulting Potential for Unmonitored, Uncontrolled Release to Environment," May 2, 1980.

IE Circular No. 79-21, "Prevention of Unplanned Releases of Radioactivity," October 19, 1979.

IE Circular No. 80-14, "Radioactive Contamination of Plant Demineralized Water System and Resultant Internal Contamination of Personnel," June 24, 1980.

IE Circular No. 81-07, "Control of Radioactively Contaminated Material," May 8, 1981.

IE Information Notice No. 80-22, "Breakdown in Contamination Control Programs," May 22, 1980.

IE Information Notice No. 82-32, "Contamination of Reactor Coolant System by Organic Cleaning Solvents," August 19, 1982.

IE Information Notice No. 82-49, "Correction for Sample Conditions for Air and Gas Monitoring," December 16, 1982.

IE Information Notice No. 83-05, "Obtaining Approval for Disposing of Very-Low-Level Radioactive Waste - 10 CFR 20.302," February 24, 1980.

IE Information Notice No. 83-33, "Nonrepresentative Sampling of Contaminated Oil," May 26, 1983.

NCRP Report No. 57, "Instrumentation and Monitoring Methods for Radiation Protection," May 1, 1978.

NCRP Report No. 65, "Management of Persons Accidentally Contaminated with Radionuclides," April 15, 1980.

HASL-312, "Guidance for Air Sampling At Nuclear Facilities," A. J. Breslin, November 1978.

LA-4558-MS, "Surface Contamination: Decision Levels," J. W. Healy, September 1971.

"Proposed Guidance for Calibration and Surveillance Requirements for Equipment Provided to Meet Item II.F.1, Attachments 1, 2, and 3, NUREG-0737," memorandum from D. G. Eisenhut, NRR, to Regional Administrators, August 16, 1982, with enclosures.

END

Attachment 1 - Revision History for IP 83726

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment and Feedback Resolution Accession Number
	01/01/1984 CN 84-001	Initial issuance.		
	12/31/1991 CN 91-021	Programmatic update.		
	09/17/01 CN 01-017	Deleted from the ROP program. Still active for decommissioning.		
	ML14311A7121 11/13/14 CN 14-027	Re-issued for the decommissioning program and to add applicability to IMC 2561 App B. Will be updated again when the decommissioning discretionary procedures are reviewed and approved.		