**NRC INSPECTION MANUAL** NMSS/DFM

INSPECTION MANUAL CHAPTER 2694 APPENDIX A

FUEL FACILITY CONSTRUCTION INSPECTION PROGRAM—
CONSTRUCTION AND PRE-OPERATIONAL INSPECTION PROCEDURES

Effective Date: 06/24/2025

See Inspection Manual Chapter (IMC) 2683, "Material Control and Accounting Inspection of Fuel Cycle Facilities," for a complete list of material control and accounting inspection procedures (IPs).

See appropriate IMCs for a list of physical security and information security IPs.

See IMC 2600, Appendix B, “NRC Core Inspection Requirements,” Tables 1, 2, and 3, for pre‑operational procedures.

IPs may be added or deleted as required. Portions of these IPs will not apply to the fuel cycle facility being constructed and the applicable sections should be specified in the inspection plan.

# Construction Inspection Procedures

IP 88200, Inspections of Safety Significant Items and Services During Construction of Fuel Cycle Facilities

Appendix A: Foundations and Buildings

Appendix B: Structural Concrete

Appendix C: Structural Steel and Supports

Appendix D: Piping Systems

Appendix E: Pipe Support and Restraints

Appendix F: Mechanical Components

Appendix G: Electrical Cable

Appendix H: Electrical Components and Systems

Appendix I: Ventilation and Confinement Systems

Appendix J: Instrumentation and Control Systems

Appendix K: Welding

Appendix L: Fire Protection Systems

Appendix M: Inspection of Digital Instrumentation and Control System/Software Design

# Management Measures Inspection Procedures

IP 88201, Inspections of Management Measures During Construction of Fuel Cycle Facilities

Appendix A: Configuration Management (CM)

Appendix B: Maintenance

Appendix C: Training and Qualification

Appendix D: Procedures

Appendix E: Audits and Assessments

Appendix F: Incident Investigations

Appendix G: Records Management

Appendix H: Other Quality Assurance (QA) Elements (1-18) (as applicable)

# Pre-Operational Inspection Procedures

IP 88202: Inspections of Operational Readiness During Construction of Fuel Cycle Facilities

Inspection procedures listed in IMC 2600 Appendix B: “NRC Core Inspection Requirements,” Tables 1, 2, and 3. These include IPs for:

* SAFETY OPERATIONS (e.g., criticality safety)
* SAFEGUARDS (e.g., material control and accounting, physical security, classified material and information security also known as INFOSEC)
* RADIOLOGICAL CONTROLS (e.g., radiation protection, environmental protection)
* FACILITY SUPPORT (e.g., emergency preparedness, plant modifications)
* As Needed Inspection Procedures

END

List of Attachments:
Attachment 1: Revision History for IMC 2694 Appendix A

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| Commitment Tracking Number | Accession NumberIssue DateChange Notice | Description of Change | Description of Training Required and Completion Date | Comment Resolution and Closed Feedback Form Accession Number(Pre-Decisional Non-Public Information) |
| N/A | ML25030A11406/24/25CN 25-020 | Construction Inspection Update: Major revision, including at-risk construction, use of Open Items, new Appendix C: “Principal Inspection Plan (PIP) Creation,” and reference to three new construction inspection procedures: IP 88200, IP 88201, and IP 88202. Updates also made for RII reorganization.   | N/A | N/A |