**NRC INSPECTION MANUAL** NMSS/FCSE

INSPECTION MANUAL CHAPTER 2600 APPENDIX B

NRC Core Inspection Requirements

IMC 2600 Appendix B NRC Core Inspection Requirements Tables 1 and 2

PURPOSE:

THIS APPENDIX IDENTIFIES THE NRC CORE AND RESIDENT INSPECTION REQUIREMENTS FOR EACH TYPE OF FUEL FACILITY BY INSPECTION PROCEDURE.

Table 1

|  |  |  |  |  |  |  |  |  |  |  |  |
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|  | | Category I Fuel Facility | | Category III Fuel Fabrication Facility | | Uranium Conversion  Facility | | Gas Centrifuge Facility | | Laser Enrichment Facility | |
| Function/ Program Areas | Procedure or Procedure Suite | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) |
| SAFETY OPERATIONS | | | | | | | | | | | |
| Plant Operations | 88020 (OPR) | Annual | 24 | Annual (2 per year) | 60 | Annual (2 per year) | 60 | Annual (2 per year) | 60 | - | - |
| 88135+ (Resident Inspection Program) | Annual | 752 | - | - | - | - | - | - | - | - |
| Criticality Safety | 88015 | Annual (3 per year) | 192 | Annual (2 per year) | 64 | - | - | Annual (2 per year) | 64 | - | - |
| Fire Protection | 88055 (FPA) | Annual unless 88054 is performed | 32 | Annual unless 88054 is performed | 32 | Annual unless 88054 is performed | 32 | Annual unless 88054 is performed | 32 | - | - |
| 88054 (FPT) | Triennial\* | 90 | Triennial\* | 90 | Triennial\* | 90 | Triennial\* | 90 | - | - |

+Resident inspection activities are conducted over the course of the year at the frequency and in the manner described in the relevant inspection procedure. The hours listed are for planning purposes and may vary by +10%. If variance is more than 10%, the difference must be explained and the hours reviewed.

\*Note: The triennial inspection (88054) references portions of 88055, but all inspection time will be charged to 88054.

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|  | | Category I Fuel Facility | | Category III Fuel Fabrication Facility | | Uranium Conversion  Facility | | Gas Centrifuge Facility | | | Laser Enrichment Facility | | |
| Function/ Program Areas | Procedure or Procedure Suite | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | | Inspection Frequency | | Estimated Resources per IP (hrs) |
| SAFEGUARDS | | | | | | | | | | | | | |
| MC&A | Procedures as in IMC 2683 | 2 | 152-196 | Annual | 54-72 | - | - | Annual | 62-84 | | - | | - |
| Physical Protection | HEU Access Controls (PS1) | Annual | 40 | - | - | - | - | - | | - | | - | - |
| HEU Alarms and Barriers (PS2) | Annual | 40 | - | - | - | - | - | | - | | - | - |
| HEU Other Security Areas (PS3) | Annual | 50 | - | - | - | - | - | | - | | - | - |
| LEU Security (PS4) | - | - | Triennial | 16 | Triennial | 24 | Triennial | | 16 | | - | - |
| Transportation Security (PS5) | Triennial | 8 | Triennial | 8 | - | - | Triennial | | 8 | | - | - |
| Classified Material and Information Security | 81820 (INFOSEC) | Annual | 2 | - | - | - | - | Annual | | 48-160 | | Annual | 104-120 |
| 81815 (Access Authorization) | - | - | - | - | - | - | Annual | | 8-16 | | Annual | 16 |

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|  | | Category I Fuel Facility | | Category III Fuel Fabrication Facility | | Uranium Conversion  Facility | | Gas Centrifuge Facility | | Laser Enrichment Facility | |
| Function/ Program Areas | Procedure or Procedure Suite | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) | Inspection Frequency | Estimated Resources per IP (hrs) |
| RADIOLOGICAL CONTROLS | | | | | | | | | | | |
| Radiation Protection | 88030 (RP) | Biennial with annual subsections | 64 | Biennial with annual subsections | 64 | Biennial with annual subsections | 64 | Biennial with annual subsections | 64 | - | - |
| Environmental Protection | 88045 (Effluent Control and Env.) | Annual | 32 | Annual | 32 | Annual | 32 | Annual | 32 | - | - |
| Waste Management | 88035 (WM) | Biennial | 32 | Biennial | 32 | Biennial | 32 | Biennial | 32 | - | - |
| Transportation | 86740 (T) | Biennial | 32 | Biennial | 32 | Biennial | 32 | Biennial | 32 | - | - |
| FACILITY SUPPORT | | | | | | | | | | | |
| Maintenance/ Surveillance | 88025 (MS) | - | - | Annual | 30 | Annual | 30 | Annual | 30 | - | - |
| Emergency Preparedness | 88050 (EP) | Annual | 32 | Annual | 32 | Annual | 32 | Annual | 32 | - | - |
| 88051 (Exercise Observation) | Biennial | 48 | Biennial | 48 | Biennial | 48 | Biennial | 48 | - | - |
| Permanent Plant Modifications | 88070 | Annual | 40-120\* | Annual | 40-120\* | Annual | 40-120\* | Annual | 40-120\* | - | - |

\*Note: The actual planned inspection hours will depend on information developed from routine inspections, changes to the ISA Summary, discussions with Project Inspectors and staff, etc.

Table 2

As Needed Inspection Procedures

|  |  |
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| IP Number | Title |
| 71152 | Problem Identification and Resolution |
| 88003 | Reactive Inspection for Events at Fuel Cycle Facilities |
| 88005 | Management Organization and Controls |
| 88010 | Training |
| 88071 | Configuration Management Programmatic Review |
| 88075 | Event Follow Up |
| 88161 | Corrective Action Program (CAP) Implementation at Fuel Cycle Facilities |
| 92701 | Follow up |
| 92702 | Follow up on Corrective Actions for Violations and Deviations |
| 92703 | Follow up of Confirmatory Action Letters or Orders |
| 92709 | Contingency Plans for Licensee Strikes or Lockouts |
| 92711 | Implementation of Licensee Contingency Plans During a Strike/ Lockout |
| 92712 | Resumption of Normal Operations After a Strike |
| 93001 | OSHA Interface Activities |
| 93800 | Augmented Inspection Team |
| 93812 | Special Inspection |
| 93100 | Safety-Conscious Work Environment Issue of Concern Followup |
| 95003.02 | Guidance for Conducting an Independent NRC Safety Culture Assessment |

END

Revision History Table for IMC 2600 Appendix B

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| --- | --- | --- | --- | --- |
| 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 (Pre-Decisional, Non-Public) |
| N/A | 04/26/07  CN-07-014 | Revised to incorporate the new inspection procedures developed to address changes to 10 CFR Part 70 and to reflect enhancements made to the fuel facility inspection program. | N/A | ML070610109 |
| N/A | 08/15/07  CN-07-025 | Remove “OFFICIAL USE ONLY - SENSITIVE INTERNAL INFORMATION” designation from entire manual chapter to make publicly available.  (1) Revised to correct estimated resources per year for Plant Operations [Cat. III and Uranium Conversion], MC&A [Cat I], and Radiation Protection [Cat. I]; (2) Revised to delete Procedure 84900, ‘Low Level Waste.’ The procedure was combined into Procedure 88035, ‘Waste Management.’ | N/A | ML072070181 |
| N/A | ML080660565  03/21/08  CN 08-011 | Revised to incorporate Gas Centrifuge Facility inspections into the fuel facility inspection program A | N/A | N/A |
| N/A | ML093170399  01/27/10  CN 10-003 | Revised to incorporate Gas Centrifuge Facility inspections into the fuel facility inspection program. | N/A | N/A |
| N/A | ML112720197  11/07/11  CN 11-028 | Revised to incorporate revised hours of IP 88015 and 88017. | N/A | ML112720208 |

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| 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 (Pre-Decisional, Non-Public) |
| N/A | ML13311A662  02/07/14  CN 14-005 | Significant revision to:   * Deleted Cat III Fuel Assembly Facility Type as FCSS & DFFI no longer has this type of facility in its jurisdiction. * Revised to include adjustment to Gaseous Diffusion Plant resident inspection hours as described in ML12284A329. * Revise to make total core hours for Gaseous Diffusion Plant consistent with the core hours described in ML12284A329. * Removed Operator Training hours and made it “as needed.” * Changed MC&A hours to reflect the sum of estimated hours in the IPs. * Removed Management Organization and Controls hours and frequency as inspections requirements were transferred to other IPs. Made this IP “as needed.” * Updated IP 88054 and 88055 inspection hours. All inspection hours will be charged to the triennial procedure every three years. The triennial inspection hours have been increased to reflect that 88055 will not be charged during this 3rd year. * Reduced the Radiation Protection (88030) inspection hours to be performed at the Category 1 fuel facilities. This reduction allows for the same resource allocation as the Category 3 and Conversion facilities. The evaluation for this change included the safety significance of the | N/A | ML13347A907 |

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| --- | --- | --- | --- | --- |
| 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 (Pre-Decisional, Non-Public) |
|  |  | facilities and the radiation protection evaluations included in 88135.   * Added new Corrective Action Programs for Fuel Cycle Facilities inspection procedure. * The Environmental Protection, 88045, inspection hours were increased to correspond to the new material included in the inspection procedure revision. * The Waste Management (88035) inspection hours were increased to correspond with the new material included in the inspection procedure revision. The inspection frequency has been reduced to biannual, from annual inspections, due to the amount of waste management activities at the site. * The Transportation inspection procedure (IP 86740) was not revised. The change in hours reflect the current recommendation in hours from the Resource Estimate section of the inspection procedure. The frequency of the IP was changed to biennial, from annual, to keep the total number of inspection hours consistent with the current level of risk for this activity. This change addresses an audit finding which stated that the App B hours should be consistent with the recommended hours of the inspection procedure. * The column headings were revised to simplify the chart and to decrease the number of footnotes applicable. |  |  |

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| --- | --- | --- | --- | --- |
| 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 (Pre-Decisional, Non-Public) |
| N/A | ML14119A212  06/27/14  CN 14-014 | Table revised to add columns for Laser Enrichment Facility and rows for Classified Material and Information Security. | N/A | ML14119A214 |
| N/A | ML15070A286  09/24/15  CN 15-018 | Revision includes:   * Removed reference to GDP from Table 1. * Inspection procedures 88015, 88016, and 88017 were merged into one procedure. The chart was updated and hours adjusted accordingly. * Table 2, As Needed Inspection Procedures, was added to appendix. NRR communicated that listing inspection procedures in the IMC was essential for administratively including IPs in RPS. * As needed Inspection Procedures 88005, 88010, 88161, and 92702 were removed from Table 1 and included in Table 2. * The table which included the resident inspection hours for GDP and Category 1 facilities was deleted and information consolidated in Table 1. * Resident inspection responsibilities for Gaseous Diffusion Plant were removed. The inspection procedures removed from the IMC are 88100, 88102, 88103, and 88105.   88135 inspection hours for NFS was reduced from 1504 to 752 hours/year. This corresponds with the NRC staffing change at the facility; from two resident inspectors to one. | None | ML15070A287 |