APPENDIX B

PURPOSE.

This Appendix identifies the NRC Core Inspection Requirements for each type of fuel facility by inspection procedure.

Table 1

NRC Core Inspection Requirements for Fuel Facility Types by Inspection Procedure

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Category 1 | | Cat III U Fuel  Fabrication | | GDP | | Cat III Fuel Assembly | | Uranium Conversion | |
| Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) |
| SAFETY OPERATIONS | | | | | | | | | | | |
| Plant Operations | 88020 (OPR) | 1 | 24 | 2 | 60 | 1 | 30 | 1 | 16 | 2 | 60 |
| 92702 (Enforcement Follow-up) | As Needed |  | As Needed |  | As Needed |  | As Needed |  | As Needed |  |
| Criticality Safety (HQ) | 88015 (NCS) | 3 | 79.5 | 2 | 29.5 | 2 | 59.5 | 1 | 4 | \_ | \_ |
| 88016 (NCS Evaluations) | 3 | 112 | 2 | 34 | 2 | 68 | 1 | 3.5 | \_ | \_ |
| 88017 (NCS Alarm Systems) | 1 | 0.5 | 1 | 0.5 | 1 | 0.5 | 1 | 0.5 | \_ | \_ |
| Fire Protection | 88055 (FPA) | 1 | 32 | 1 | 32 | 1 | 32 | 1 | 8 | 1 | 32 |
| 88054 (FPT) | 1\* | 64 | 1\* | 64 | 1\* | 64 | 1\* | 16 | 1\* | 64 |

\*Note: These inspections are performed every three calendar years.

APPENDIX B

Table 1 (Cont’d)

NRC Core Inspection Requirements for Fuel Facility Types by Inspection Procedure

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Gas Centrifuge Facility | |  | |  | |  | |  | |
| Inspections per calendar year | Estimated Resources per year (hrs) |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | |
| Plant Operations | 88020 (OPR) | 2 | 60 |  |  |  |  |  |  |  |  |
| 92702 (Enforcement Follow-up) | As Needed | ----- |  |  |  |  |  |  |  |  |
| Criticality Safety (HQ) | 88015 (NCS) | 2 | 27.5 |  |  |  |  |  |  |  |  |
| 88016 (NCS Evaluations) | 2 | 36 |  |  |  |  |  |  |  |  |
| 88017 (NCS Alarm Systems) | 1 | 0.5 |  |  |  |  |  |  |  |  |
| Fire Protection | 88055 (FPA) | 1 | 32 |  |  |  |  |  |  |  |  |
| 88054 (FPT) | 1\* | 64 |  |  |  |  |  |  |  |  |

\*Note: These inspections are performed every three calendar years.

APPENDIX B

Table 1 (cont'd)

NRC Core Inspection Requirements for Fuel Facility Types per Inspection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Category 1 | | Cat III U Fuel  Fabrication | | GDP | | Cat III Fuel Assembly | | Uranium Conversion | |
| Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) |
| SAFEGUARDS | | | | | | | | | | | |
| MC&A (HQ) | Procedures as in IMC 2683 | 2 | 128 | 1 | 64 | 1 | 64 | 1 | 24 | \_ | \_ |
| Physical Protection | HEU Access Controls (PS1) | 1 | 40 | \_ | \_ | \_ | \_ | \_ | \_ | \_ | \_ |
| HEU Alarms and Barriers (PS2) | 1 | 40 | \_ | \_ | \_ | \_ | \_ | \_ | \_ | \_ |
| HEU Other Security Areas (PS3) | 1 | 50 | \_ | \_ | \_ | \_ | \_ | \_ | \_ | \_ |
| LEU Security (PS4) | \_ | \_ | 1\* | 16 | 1\* | 16 | 1\* | 16 | 1\* | 24 |
| Transportation Security (PS5) | 1\* | 8 | 1\* | 8 | 1\* | 8 | 1\* | 8 | \_ | \_ |
| Classified Material and Information Security | TBD |  |  |  |  |  |  |  |  |  |  |

\*Note: These inspections are performed every three calendar years.

APPENDIX B

Table 1 (cont'd)

NRC Core Inspection Requirements for Fuel Facility Types per Inspection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Gas Centrifuge Facility | |  | |  | |  | |  | |
| Inspections  per calendar year | Estimated Resources per year (hrs) |  |  |  |  |  |  |  |  |
| SAFEGUARDS | | | | | | | | | | | |
| MC&A (HQ) | Procedures as in IMC 2683 | 1 | 64 |  |  |  |  |  |  |  |  |
| Physical Protection | HEU Access Controls (PS1) | ----- | ----- |  |  |  |  |  |  |  |  |
| HEU Alarms and Barriers (PS2) | ----- | ----- |  |  |  |  |  |  |  |  |
| HEU Other Security Areas (PS3) | ----- | ----- |  |  |  |  |  |  |  |  |
| LEU Security (PS4) | 1\* | 16 |  |  |  |  |  |  |  |  |
| Transportation Security (PS5) | 1\* | 8 |  |  |  |  |  |  |  |  |
| Classified Material and Information Security | TBD |  |  |  |  |  |  |  |  |  |  |

\*Note: These inspections are performed every three calendar years.

APPENDIX B

Table 1 (cont'd)

NRC Core Inspection Requirements for Fuel Facility Types per Inspection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Category 1 | | Cat III U Fuel  Fabrication | | GDP | | Cat III Fuel Assembly | | Uranium Conversion | |
| Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) | Inspections  per calendar year | Estimated Resources per year (hrs) |
| RADIOLOGICAL CONTROLS | | | | | | | | | | | |
| Radiation Protection | 88030 (RP) | 2 | 52 | 1 | 32 | 1 | 32 | 1 | 16 | 1 | 24 |
| Environmental Protection | 88045 (Effluent Control and Environmental) | 1 | 24 | 1 | 24 | 1 | 24 | 1 | 12 | 1 | 24 |
| Waste Management | 88035 (WM) | 1 | 16 | 1 | 16 | 1 | 12 | 1 | 12 | 1 | 12 |
| Transportation | 86740 (T) | 1 | 16 | 1 | 16 | 1 | 16 | 1 | 16 | 1 | 16 |
| FACILITY SUPPORT | | | | | | | | | | | |
| Maintenance/  Surveillance | 88025 (MS) | 1 | 20 | 1 | 24 | 1 | 20 | 1 | 8 | 1 | 24 |
| Training | 88010 (OT) | 1 | 12 | 1 | 12 | 1 | 12 | 1 | 12 | 1 | 12 |
| Emergency Preparedness | 88050 (EP) | 1 | 30 | 1 | 30 | 1 | 30 | 1 | 12 | 1 | 30 |
| 88051 (Exercise Observation) | 1+ | 32 | 1+ | 32 | 1+ | 32 | \_ | \_ | 1+ | 32 |
| Permanent Plant Modifications | 88070 | 1 | 40-120\* | 1 | 40-120\* | 1 | 40-120\* | 1+ | 40-120\* | 1 | 40-120\* |
| Management Organization and Controls | 88005 (MO) | 1 | 16 | 1 | 16 | 1 | 16 | 1 | 16 | 1 | 16 |

\*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.

+Note: These inspections are performed every two calendar years

APPENDIX B

Table 1 (cont'd)

NRC Core Inspection Requirements for Fuel Facility Types per Inspection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Function/Program Areas | Procedure or Procedure Suite | Facility Type | | | | | | | | | |
| Gas Centrifuge  Facility | |  | |  | |  | |  | |
| Inspections  per calendar year | Estimated Resources per year (hrs) |  |  |  |  |  |  |  |  |
| RADIOLOGICAL CONTROLS | | | | | | | | | | | |
| Radiation Protection | 88030 (RP) | 1 | 32 |  |  |  |  |  |  |  |  |
| Environmental Protection | 88045 (Effluent Control and Environmental) | 1 | 24 |  |  |  |  |  |  |  |  |
| Waste Management | 88035 (WM) | 1 | 16 |  |  |  |  |  |  |  |  |
| Transportation | 86740 (T) | 1 | 16 |  |  |  |  |  |  |  |  |
| FACILITY SUPPORT | | | | | | | | | | | |
| Maintenance/  Surveillance | 88025 (MS) | 1 | 24 |  |  |  |  |  |  |  |  |
| Training | 88010 (OT) | 1 | 12 |  |  |  |  |  |  |  |  |
| Emergency Preparedness | 88050 (EP) | 1 | 30 |  |  |  |  |  |  |  |  |
| 88051 (Exercise Observation) | 1+ | 32 |  |  |  |  |  |  |  |  |
| Permanent Plant Modifications | 88070 | 1 | 40-120\* |  |  |  |  |  |  |  |  |
| Management Organization and Controls | 88005 (MO) | 1 | 16 |  |  |  |  |  |  |  |  |

\*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.

+Note: These inspections are performed every two calendar years

APPENDIX B

Table 2

NRC RESIDENT INSPECTION REQUIREMENTS BY INSPECTION PROCEDURE

| Function/Program Areas | Procedure or Procedure Suite | Facility Type | |
| --- | --- | --- | --- |
| Category I | GDP |
| Direct Inspection Effort  (hrs) | Direct Inspection Effort  (hrs) |
| GDP SAFETY OPERATIONS | | | |
| Plant Operations | 88100 (OPNS) | - | 1294 |
| Configuration Control | 88101 (CC) | - | 36 |
| Surveillance Operations | 88102 (SURV) | - | 96 |
| Maintenance Observations | 88103 (MAINT) | - | 160 |
| Management Organization and Controls | 88105 (MO&C) | - | 24 |
| CATEGORY I SAFETY OPERATIONS | | | |
| BWXT Operations | 88135 (OPNS) | 850 | - |
| NFS Operations | 88135 (OPNS) | 1700 | - |

1. Resident inspection activities are conducted over the course of the year at the frequency and in the manner described in the relevant inspection procedure.

2. 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.

END

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Commitment Tracking Number | Document Accession Number and Issue Date | Description of Change | Training Needed | Training Completion Date | Comment Resolution Accession Number |
| 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. | None | 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. | None | N/A | ML072070181 |
| N/A | 03/21/08  CN 08-011 | Revised to incorporate Gas Centrifuge Facility inspections into the fuel facility inspection program  A | None | N/A | N/A |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N/A | 01/27/10  CN 10-003 | Revised to incorporate Gas Centrifuge Facility inspections into the fuel facility inspection program. | None | N/A | N/A |
| N/A | ML112720197  11/07/11  Cn 11-028 | Revised to incorporate revised hours of IP 88015 and 88017. | None | N/A | ML112720208 |