

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.

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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.

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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.

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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.

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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

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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

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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 $\pm 10\%$. If variance is more than 10%, the difference must be explained and the hours reviewed.

END

ATTACHMENT 1

Revision History for IMC 2600, Appendix B

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	None	N/A	N/A

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Revision History for IMC 2600, Appendix B

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