

NRC INSPECTION MANUAL

NMSS/FCSE

INSPECTION MANUAL CHAPTER 2600 APPENDIX B

NRC CORE INSPECTION REQUIREMENTS

Effective Date: 06/12/2018

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

Function/ Program Areas	Procedure or Procedure Suite	Category I Fuel Facility		Category III Fuel Fabrication Facility		Uranium Conversion Facility		Gas Centrifuge Facility		Laser Enrichment Facility	
		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 (2 per year)	60	Annual (2 per year)	60	Annual (2 per year)	60	-	-
	88135+ (Resident Inspection Program)	Annual	797	-	-	-	-	-	-	-	-
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	-	-
	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.

		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 Security Measures (PS1)										
	81700.01	Biennial	18	-	-	-	-	-	-	-	-
	81700.02	Annual	27	-	-	-	-	-	-	-	-
	81700.04	Biennial	40	-	-	-	-	-	-	-	-
	81700.05	Triennial	70	-	-	-	-	-	-	-	-
	81700.06	Triennial	20	-	-	-	-	-	-	-	-
	81700.07	Biennial	25	-	-	-	-	-	-	-	-
	81700.08	Triennial	24	-	-	-	-	-	-	-	-
	81700.10	Triennial	6	-	-	-	-	-	-	-	-
	81700.11	Annual	8	-	-	-	-	-	-	-	-
	LEU Security Measures (PS2)										
	81431	-	-	Triennial	14	Triennial	22	Triennial	14	-	-
	81810	-	-	Triennial	2	Triennial	2	Triennial	2	-	-
	Transportation Security (PS3)										
81335	Triennial	4	-	-	-	-	-	-	-	-	
81340	Triennial	4	Triennial	8	-	-	Triennial	8	-	-	
Other											
96001	Triennial	360	-	-	-	-	-	-	-	-	
Classified Material and INFOSEC	81820 (INFOSEC)	Annual	2	-	-	-	-	Annual	48-160	Annual	104-120
	81815 (Access Authorization)	-	-	-	-	-	-	Annual	8-16	Annual	16

		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	-	-
Plant Modifications (Annual)	88070	Annual unless 88072 is performed	32*	Annual unless 88072 is performed	32*	Annual unless 88072 is performed	32*	Annual unless 88072 is performed	32*	-	-
Plant Modifications (Triennial)	88072	Triennial	96*	Triennial	96*	Triennial	96*	Triennial	96*		

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

Table 2

As Needed Inspection Procedures

IP Number	Title
40100	Independent Safety Culture Assessment Follow-up
71152	Problem Identification and Resolution
71153	Follow-up of Events and Notices of Enforcement Discretion
84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR Part 20 and 10 CFR Part 61
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

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (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

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (Pre-Decisional, Non-Public)
N/A	ML13311A662 02/07/14 CN 14-005	<p>Significant revision to:</p> <ul style="list-style-type: none"> • 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. 	N/A	ML13347A907

Commitment Tracking Number	Accession Number Issue Date Change Notice	• Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (Pre-Decisional, Non-Public)
		<ul style="list-style-type: none"> • 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 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. 		

Commitment Tracking Number	Accession Number Issue Date Change Notice	• Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (Pre-Decisional, Non-Public)
		<ul style="list-style-type: none"> 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. <p>The column headings were revised to simplify the chart and to decrease the number of footnotes applicable.</p>		
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

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (Pre-Decisional, Non-Public)
N/A	ML15070A286 09/24/15 CN 15-018	Revision includes: <ul style="list-style-type: none"> • 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

Commitment Tracking Number	Accession Number Issue Date Change Notice	Description of Change	Description of Training Required and Completion Date	Comment Resolution and Closed Feedback Form Accession Numbers (Pre-Decisional, Non-Public)
N/A	ML17299B292 12/20/17 CN 17-030	Editorial changes to reflect the latest revision to IMC 2681 and its associated procedures.	N/A	N/A
N/A	ML18099A226 06/12/18 CN 18-015	<p>-Revision includes changes to estimated resource hours for Category I Fuel Facilities in the areas of Plant Operations and Fire Protection to reflect a transfer of hours from IPs 88020 and 88055 to IP 88135 (Resident Inspector Program).</p> <p>-Revised to include changes to 88070 and 88072 regarding annual implementation versus triennial.</p> <p>-Added 3 inspection procedures to Table 2: 40100, 71153, and 84850</p>	N/A	N/A