



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

January 31, 2020

Mr. Frank Payne
Site Vice President
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
Reg Affairs—A210
10 Center Road, P.O. Box 97
Perry, OH 44081-0097

SUBJECT: PERRY NUCLEAR POWER PLANT – MATERIAL CONTROL AND
ACCOUNTING PROGRAM INSPECTION REPORT 05000440/2019412

Dear Mr. Payne:

On December 20, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Perry Nuclear Power Plant. On December 23, 2019, the NRC inspectors discussed the results of this inspection with Mr. B. Blair, Plant General Manager, and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA by Ann Marie Stone for/

Billy C. Dickson, Jr, Chief
Branch 2
Division of Reactor Projects

Docket No. 05000440
License No. NPF-58

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Frank Payne from Billy Dickson dated January 31, 2020.

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Number: 05000440

License Number: NPF-58

Report Number: 05000440/2019412

Enterprise Identifier: I-2019-412-0022

Licensee: FirstEnergy Nuclear Operating Company

Facility: Perry Nuclear Power Plant

Location: Perry, OH

Inspection Dates: December 09, 2019 to December 20, 2019

Inspectors: J. Steffes, Senior Resident Inspector

Approved By: Billy C. Dickson, Jr, Chief
Branch 2
Division of Reactor Projects

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a material control and accounting program inspection at Perry Nuclear Power Plant, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Unless otherwise noted, baseline security inspections were conducted in accordance with the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards. Publicly available IPs are located at: <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>.

SAFEGUARDS

71130.11 - Material Control and Accounting (MC&A)

An NRC inspector evaluated the Material Control and Accountability program at the Perry Nuclear Power Plant through completion of the following IP elements:

Material Control and Accounting (MC&A) (15 Samples)

- (1) Special Nuclear Material Records (3 Samples)
- (2) Material Control and Accounting Programs and Procedures (2 Samples)
- (3) Physical Inventory of Special Nuclear Material (8 Samples)
- (4) Special Nuclear Material Reports (1 Sample)
- (5) Problem Identification and Resolution (1 Sample)

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On December 23, 2019, the inspectors presented the material control and accounting program inspection results to Mr. B. Blair, Plant General Manager, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.11	Corrective Action Documents	2019-02005	MS-C-19-03-30: Finding Failure to Meet the Corrective Action Requirements of 10 CFR 72.172 and Instruction Requirements of 10 CFR 72.150 on Documenting Equipment Failures During the Spent Fuel Dry Storage Campaign #3	03/07/2019
		CR 2017-04166	Date Entry Error Identified on Nuclear Instrument Movement Checklist	04/12/2017
		CR 2019-00757	Damaged Fuel Bundle Identified During New Fuel Receipt	01/24/2019
		CR 2019-01277	LPRMs Failed Pre-installation Test	02/11/2019
		CR 2019-01292	1R17-New LPRM Detector Test Difficulty	02/12/2019
	Corrective Action Documents Resulting from Inspection	CR 2019-10486	Foreign Material Identification in Spent Fuel Pool	12/18/2019
		CR 2019-10511	Locking Mechanism Cover Observed Out of Place on Dry Tube Trash Can	12/18/2019
	Drawings		Spent Fuel Map	0
			Fuel Prep Pool	0
	Miscellaneous		Fuel Movement Checklist - New Fuel Receipt for 1R16	04/24/2017
			Fuel Move Checklist	04/17/2017
			Nuclear Instrumentation Movement Checklist Work Order 200694931	07/11/2019
			Nuclear Instrumentation Movement Checklist Work Order 200694793	07/11/2019
	Procedures	FTI-D0001	Fuel Accountability Instruction	7
		FTI-D0009	Use of the Fuel Movement Checklist	19
		FTI-E0013	New Fuel Receipt and Storage	20
		FTI-E0014	New Fuel Inspection and Channeling in the New Fuel Inspection Stand	15
		FTI-G0010	Control and Use of the MARLA Fuel Movement and Storage Database	1
		HPI-L0004	Source Control Documentation and Inventory	13
		NOP-NF-3001	Special Nuclear Material Control and Accounting Program	11
		NOP-NF-3002	Special Nuclear Material Physical Inventory	4
	Shipping Records		Nuclear Instrument Receipt/Shipment SNM Source	04/28/2017

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			Fuel Receipt Shipment Data Index	01/05/2019
		DOE/NRC FORM 741	Nuclear Material Transaction Report	02/07/2019
	Work Orders	200364035	Dry Tube Replacement for LPRM and IRM	04/01/2017
		200510261	Replace IRM Detector	04/06/2017
		200708723	Inventory of Special Nuclear Material	12/25/2017
		200708724	Inventory of Special Nuclear Material	12/26/2018
		WO 200664435	Replace Designated LPRM Detectors	04/01/2017
		WO 200694931	Receive/Inspect/Store Nuclear Instruments	02/07/2019