



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 3, 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: ANNUAL ASSESSMENT LETTER PERRY NUCLEAR POWER PLANT  
(REPORT 05000440/2019006)**

Dear Mr. Payne:

The NRC has completed its end-of-cycle performance assessment of Perry Nuclear Power Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2019 through December 31, 2019. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Perry Nuclear Power Plant during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"), and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

The enclosed inspection plan includes the team inspections of a Design Bases Assurance Inspection (Teams), starting onsite on April 20, 2020, and an Emergency Preparedness Exercise Inspection starting onsite on September 14, 2020.

Additionally, during this period the NRC will schedule and perform inspections per a revised version of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" based on licensee risk evaluation completion and related NRR inspection guidance.

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact me at 630-829-9827 with any questions you have regarding this letter.

Sincerely,

**/RA/**

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

Docket No. 50-440  
License No. NPF-58

Enclosure:  
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Frank Payne from Billy Dickson dated March 3, 2020.

SUBJECT: ANNUAL ASSESSMENT LETTER PERRY NUCLEAR POWER PLANT  
(REPORT 05000440/2019006)

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# IP 22 Inspection Activity Plan Report

## Perry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Design Bases Assurance Inspection (Team)</b>						6
1	04/20/2020	04/24/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	05/04/2020	05/08/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>Radiation Protection Baseline Inspection</b>						1
1	05/04/2020	05/08/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/04/2020	05/08/2020	IP 71124.04	000728	Occupational Dose Assessment	
<b>Radiation Protection Baseline Inspection</b>						1
1	07/20/2020	07/24/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>Security Baseline Inspection</b>						2
1	08/03/2020	08/07/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	10/05/2020	10/09/2020	IP 71130.02	000734	Access Control	
1	10/05/2020	10/09/2020	IP 71130.05	000737	Protective Strategy Evaluation	
<b>ISFSI Cask Loading Inspection 3Q2020</b>						2
1	08/17/2020	08/21/2020	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
<b>Emergency Preparedness Exercise Inspection / Performance Indicator Verification</b>						4
1	09/14/2020	09/18/2020	IP 71114.01	000716	Exercise Evaluation	
1	09/14/2020	09/18/2020	IP 71151	001397	Performance Indicator Verification	
<b>Radiation Protection Baseline Inspection</b>						1
1	10/26/2020	10/30/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>Perry Biennial Licensed Operator Requalification Program Inspection</b>						2
1	12/07/2020	12/11/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>Perry 2021 Initial License Exam</b>						4
1	01/03/2021	01/08/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/07/2021	02/19/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Radiation Protection Baseline Inspection</b>						1
1	02/01/2021	02/05/2021	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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## Perry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Emergency Preparedness Baseline Inspection / Performance Indicator Verification</b>						1
1	02/08/2021	02/12/2021	IP 71114.02	000717	Alert and Notification System Testing	
1	02/08/2021	02/12/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	02/08/2021	02/12/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	02/08/2021	02/12/2021	IP 71151	001397	Performance Indicator Verification	
<b>Corporate Security Baseline Inspection</b>						1
1	02/08/2021	02/12/2021	IP 71130.01	000733	Access Authorization	
<b>Inservice Inspection Perry</b>						1
1	03/10/2021	03/19/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>Radiation Protection Baseline Inspection</b>						1
1	03/15/2021	03/19/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	03/15/2021	03/19/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
<b>Cyber Security Inspection</b>						4
1	04/05/2021	04/23/2021	IP 71130.10P	000741	Cyber Security	
<b>Security Baseline Inspection</b>						1
1	04/26/2021	04/30/2021	IP 71130.02	000734	Access Control	
1	04/26/2021	04/30/2021	IP 71130.14		Review of Power Reactor Target Sets	
<b>Design Basis Assurance Inspection (Programs)</b>						3
1	06/28/2021	07/16/2021	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
<b>Radiation Protection Baseline Inspection</b>						1
1	08/16/2021	08/20/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>Security Baseline Inspection</b>						1
1	09/20/2021	09/24/2021	IP 71130.07	000739	Security Training	
1	09/20/2021	09/24/2021	IP 71151	001338	Performance Indicator Verification	
<b>Triennial Fire Protection Inspection</b>						3
1	10/04/2021	10/22/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	

# IP 22 Inspection Activity Plan Report

## Perry

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Radiation Protection Baseline Inspection</b>						
1	11/29/2021	12/03/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	1