



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

August 31, 2020

Mr. Brad Berryman  
President and Chief Nuclear Officer  
Susquehanna Nuclear, LLC  
769 Salem Blvd., NUCSB3  
Berwick, PA 18603

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 – UPDATED  
INSPECTION PLAN (INSPECTION REPORTS 05000387/2020005 AND  
05000388/2020005)

Dear Mr. Berryman:

The enclosed inspection plan lists the inspections scheduled through June 30, 2022, for Susquehanna Steam Electric Station, Units 1 and 2. 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 Reactor Oversight Process (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.

In response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, determine how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the May 28, 2020 memo, “Inspection Guidance During Transition From COVID-19 Mandatory Telework” (ML20141L766). For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC’s important safety and security mission during the COVID-19 PHE.

The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

In addition to baseline inspections, the NRC plans to conduct an inspection per Inspection Procedure 71003, "Post-Approval Site Inspection for License Renewal," at your facility during the period.

Additionally, during this period the NRC will schedule an additional inspection per a revised version 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)," for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5337 with any questions you have regarding this letter.

Sincerely,

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X /RA/

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Signed by: Jonathan E. Greives  
Jonathan E. Greives, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket Nos. 05000387 and 05000388  
License Nos. NPF-14 and NPF-22

Enclosure:  
Inspection Plan

cc: Distribution via ListServ ®

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 – UPDATED INSPECTION PLAN (INSPECTION REPORTS 05000387/2020005 AND 05000388/2020005) DATED AUGUST 31, 2020

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NAME	LCasey	JGreives			
DATE	08/27/2020	08/31/2020			

OFFICIAL RECORD COPY

# IP 22 Inspection Activity Plan Report

## Susquehanna

07/01/2020 - 06/30/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>HP Rad Instruments</b>						1
1, 2	06/29/2020	07/31/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	07/06/2020	07/10/2020	IP 71124.05 - 2019	000729	2019 Radiation Monitoring Instrumentation	
<b>PI&amp;R Biennial Team Inspection - SQ</b>						4
1, 2	07/13/2020	07/17/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	07/20/2020	07/24/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	07/27/2020	07/31/2020	IP 71152B	000747	Problem Identification and Resolution	
<b>FIRE PROTECTION-SUSQUEHANNA</b>						3
1, 2	09/21/2020	09/25/2020	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1, 2	10/05/2020	10/09/2020	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
<b>EP EXERCISE INSPECTION - SUSQUEHANNA</b>						5
1, 2	10/19/2020	10/23/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/19/2020	10/23/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/19/2020	10/23/2020	IP 71151	001397	Performance Indicator Verification	
<b>ANNUAL SAMPLE - Internal Flooding - Susquehanna Unit 1 and 2</b>						1
1, 2	11/15/2020	11/21/2020	IP 71152	000748	Problem Identification and Resolution	
<b>Susquehanna Rad Safety Inspection</b>						1
1, 2	11/16/2020	11/20/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/16/2020	11/20/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/16/2020	11/20/2020	IP 71151	000746	Performance Indicator Verification	
<b>Protective Strategy, Drill, SUS</b>						2
1, 2	01/11/2021	01/15/2021	IP 71130.05	000737	Protective Strategy Evaluation	
<b>INSERVICE INSPECTION</b>						1
2	03/29/2021	04/02/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>HP</b>						1
1, 2	04/05/2021	04/09/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/05/2021	04/09/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

# IP 22 Inspection Activity Plan Report

## Susquehanna

07/01/2020 - 06/30/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>HEAT SINK INSPECTION</b>						1
1, 2	05/16/2021	05/22/2021	IP 71111.07T	000700	Heat Sink Performance	
<b>FY21 Susquehanna Initial Examination</b>						4
1, 2	05/23/2021	05/28/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	07/25/2021	08/06/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>REMP</b>						1
1, 2	05/24/2021	05/28/2021	IP 71124.07 - 2019	000731	2019 Radiological Environmental Monitoring Program	
<b>RETS</b>						1
1, 2	06/21/2021	06/25/2021	IP 71124.06 - 2019	000730	2019 Radioactive Gaseous and Liquid Effluent Treatment	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - SQ</b>						6
1, 2	06/28/2021	07/02/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	07/19/2021	07/23/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>EP Program Inspection - Susuquehanna</b>						1
1, 2	07/19/2021	07/23/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	07/19/2021	07/23/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	07/19/2021	07/23/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/19/2021	07/23/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	07/19/2021	07/23/2021	IP 71151	001397	Performance Indicator Verification	
<b>HP</b>						1
1, 2	08/23/2021	08/27/2021	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
1, 2	08/23/2021	08/27/2021	IP 71151	000746	Performance Indicator Verification	
<b>Evaluations of Changes, Tests and Experiments</b>						3
1, 2	09/12/2021	09/18/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>Access Control, Equipment Testing and Maintenance, Training, SPR</b>						3
1, 2	10/18/2021	10/22/2021	IP 71130.02	000734	Access Control	
1, 2	10/18/2021	10/22/2021	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/18/2021	10/22/2021	IP 71130.07	000739	Security Training	
1, 2	10/18/2021	10/22/2021	IP 71130.09	001656	Security Plan Changes	

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## Susquehanna

07/01/2020 - 06/30/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Access Control, Equipment Testing and Maintenance, Training, SPR</b>						3
1, 2	10/18/2021	10/22/2021	IP 71151	001338	Performance Indicator Verification	
<b>Design Basis Assurance Inspection - Programs - Power Operated Valves - Susquehanna Units 1 and 2</b>						3
1, 2	11/01/2021	11/05/2021	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
1, 2	11/15/2021	11/19/2021	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
<b>SQ Requal Inspection with P/F Results</b>						2
1, 2	11/15/2021	11/19/2021	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1, 2	11/15/2021	11/19/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>License Renewal Phase 2</b>						4
1, 2	01/10/2022	01/28/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Access Authorization, FFD- SUS</b>						2
1, 2	01/24/2022	01/28/2022	IP 71130.01	000733	Access Authorization	
1, 2	01/24/2022	01/28/2022	IP 71130.08	000740	Fitness For Duty Program	
<b>License Renewal - Phase 1 - Susquehanna Unit 1</b>						2
1	03/28/2022	04/01/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Inservice Inspection - Susquehanna Unit 1</b>						1
1	03/28/2022	04/01/2022	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	