



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

September 1, 2021

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

SUBJECT: UPDATED INSPECTION PLAN FOR THE SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORT 05000387/2021005 AND 05000388/2021005)

Dear Mr. Berryman:

The enclosed inspection plan lists the inspections scheduled through June 30, 2023, for Susquehanna Steam Electric Station, Units 1 and 2. The U.S. Nuclear Regulatory Commission (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. 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 Reactor Oversight Process (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 February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). 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 will conduct Inspection Procedure 71003, "Post Approval Site Inspection for License Renewal," for Units 1 and 2 in January 2022, for Unit 1 in April 2022, and for Unit 2 in March 2023.

As stated in NRC Investigation Report 1-2020-001 and NRC Inspection Report 05000388/2021012, the NRC will conduct Inspection Procedure 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders." The NRC staff will work with your appropriate regulatory affairs staff to schedule this inspection.

Additionally, during this period the NRC has scheduled an additional inspection per a revised version of Temporary Instruction 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerabilities 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.

The NRC will also be performing baseline inspections of licensee cyber security programs. The specific schedule and procedure to be used for these inspections is being developed by the NRC staff. The staff expects to communicate the schedule for these inspections to each utility separately.

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,

Jonathan E. Greives, Chief
Projects Branch 4
Division of Operating Reactor Safety

Docket Nos. 05000387 and 05000388

License Nos. NPF-14 and NPF-22

Enclosure:
Susquehanna Inspection Plan

cc w/encl: Distribution via ListServ®

SUBJECT: UPDATED INSPECTION PLAN FOR THE SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORT 05000387/2021005 AND 05000388/2021005) DATED SEPTEMBER 1, 2021

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DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/ROPAssessmentMeetings/Shared Documents/ROP-22 Second Quarter Process/Branch 4/Susquehanna ROP-22 Inspection Plan Transmittal Letter.docx>

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IP 22b Site Inspection Activity Plan

Susquehanna

07/01/2021 - 06/30/2023

Unit	Start	End	Activity	CAC	Title	Staff Count
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - SQ						6
1, 2	7/19/2021	7/23/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
FY21 Susquehanna Initial Examination						6
1, 2	7/25/2021	8/6/2021	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Rad Safety - Shipping						1
1, 2	8/23/2021	8/27/2021	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
Protective Strategy, Drill, SUS						2
1, 2	9/7/2021	9/9/2021	IP 71130.05	000737	Protective Strategy Evaluation	
Evaluations of Changes, Tests and Experiments						3
1, 2	9/19/2021	9/25/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
Rad Safety - RETS & PIV						1
1, 2	10/11/2021	10/15/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	10/11/2021	10/15/2021	IP 71151	000746	Performance Indicator Verification	
Access Control, Equipment Testing and Maintenance, Training, SPR						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	
1, 2	10/18/2021	10/22/2021	IP 71151	001338	Performance Indicator Verification	
EP PROGRAM INSPECTION - SUSQUEHANNA						1
1, 2	10/25/2021	10/29/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	10/25/2021	10/29/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	10/25/2021	10/29/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/25/2021	10/29/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	10/25/2021	10/29/2021	IP 71151	001397	Performance Indicator Verification	
TI-194 Open Phase Condition Inspection - Susquehanna						2
1, 2	10/25/2021	10/29/2021	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
Design Basis Assurance Inspection - Programs - Power Operated Valves - Susquehanna Units 1 and 2						3
1, 2	11/1/2021	11/5/2021	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	

IP 22b Site Inspection Activity Plan

SQ Requal Inspection with P/F Results

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

License Renewal Phase 2

4

1, 2	1/10/2022	1/28/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal
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Rad Safety - Airborne

1

1, 2	1/10/2022	1/14/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation
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Access Authorization, FFD- SUS

2

1, 2	1/24/2022	1/28/2022	IP 71130.01	000733	Access Authorization
1, 2	1/24/2022	1/28/2022	IP 71130.08	000740	Fitness For Duty Program

License Renewal - Phase 1 - Susquehanna Unit 1

1

1	4/3/2022	4/9/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal
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Inservice Inspection - Susquehanna Unit 1

1

1	4/3/2022	4/9/2022	IP 71111.08G	000701	Inservice Inspection Activities (BWR)
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Rad Safety - Rad Hazards

1

1, 2	4/11/2022	4/15/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls
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PI&R BIENNIAL TEAM INSPECTION - SQ

4

1, 2	6/6/2022	6/10/2022	IP 71152B	000747	Problem Identification and Resolution
1, 2	6/20/2022	6/24/2022	IP 71152B	000747	Problem Identification and Resolution

ISFSI Operational (60855) and Dry Run (60854) Inspections

3

1, 2	7/4/2022	7/8/2022	IP 60854	001000	Preoperational Testing Of An ISFSI
1, 2	7/4/2022	7/8/2022	IP 60856	001003	Review of 10 CFR 72.212(b) Evaluations
1, 2	7/25/2022	7/29/2022	IP 60855	001001	Operation Of An ISFSI

Material Control & Accountability - Susquehanna Units 1 and 2

1

1, 2	7/25/2022	7/29/2022	IP 71130.11	000742	Material Control and Accounting (MC&A)
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Design Basis Assurance Inspection - Teams - Susquehanna Units 1 and 2

6

1, 2	8/7/2022	8/13/2022	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)
1, 2	8/21/2022	8/27/2022	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)

EP EXERCISE INSPECTION - SUSQUEHANNA

4

1, 2	10/17/2022	10/21/2022	IP 71114.01	000716	Exercise Evaluation
1, 2	10/17/2022	10/21/2022	IP 71151	001397	Performance Indicator Verification

Access Control, Equip Perf, Sec Trng, SPR, PI-SUS

3

1, 2	10/24/2022	10/28/2022	IP 71130.02	000734	Access Control
1, 2	10/24/2022	10/28/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance
1, 2	10/24/2022	10/28/2022	IP 71130.07	000739	Security Training

IP 22b Site Inspection Activity Plan

1, 2	10/24/2022	10/28/2022	IP 71130.09	001656	Security Plan Changes	
1, 2	10/24/2022	10/28/2022	IP 71151	001338	Performance Indicator Verification	
Rad Safety - Dosimetry & PIV						1
1, 2	11/14/2022	11/18/2022	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	11/14/2022	11/18/2022	IP 71151	000746	Performance Indicator Verification	
Rad Safety - Instruments						1
1, 2	2/6/2023	2/10/2023	IP 71124.05	000729	Radiation Monitoring Instrumentation	
License Renewal Phase 1 - Susquehanna Unit 2						1
2	3/27/2023	3/31/2023	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
Inservice Inspection - Susquehanna Unit 2						1
2	3/27/2023	3/31/2023	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
Rad Safety - Rad Hazards						1
1, 2	3/27/2023	3/31/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
EP PROGRAM INSPECTION - SUSQUEHANNA						1
1, 2	5/15/2023	5/19/2023	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	5/15/2023	5/19/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	5/15/2023	5/19/2023	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	5/15/2023	5/19/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	5/15/2023	5/19/2023	IP 71151	001397	Performance Indicator Verification	
Access Control, Protective Strat Review, TS Review, Security Plan Review, PI- SUS						4
1, 2	5/22/2023	5/26/2023	IP 71130.02	000734	Access Control	
1, 2	5/22/2023	5/26/2023	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	5/22/2023	5/26/2023	IP 71130.09	001656	Security Plan Changes	
1, 2	5/22/2023	5/26/2023	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	5/22/2023	5/26/2023	IP 71151	001338	Performance Indicator Verification	
FY23 Susquehanna Initial License Exam						4
1, 2	6/25/2023	6/30/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	