UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD, SUITE 102
KING OF PRUSSIA, PA 19406-1415

August 31, 2022

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

SUBJECT: UPDATED INSPECTION PLAN FOR SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORT 05000387/2022005 AND 05000388/2022005)

Dear Brad Berryman:

The enclosed inspection plan lists the inspections scheduled through June 30, 2024, 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.

Beginning on January 1, 2023, the engineering inspection frequency will transition from a triennial (3-year) to a quadrennial (4-year) cycle. The new engineering inspection program will consist of a "Comprehensive Engineering Team Inspection (CETI)"[1] and three "Focused Engineering Inspections (FEIs)" that will be performed in each quadrennial cycle. For the cycle beginning in 2023, the FEIs will be: "Fire Protection Team Inspection," "Commercial Grade Dedication," and an engineering inspection that reviews age-related degradation and management[2].

In response to the COVID-19 public health emergency (PHE), the NRC adjusted 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). While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities to return to normal onsite presence by our resident and region-based

[1] Aspects of the Design Basis Assurance Inspection (DBAI), Evaluations of Changes, Tests, & Experiments, and Heat Sink inspections will be included in the CETI inspection. Attached Report 22 will reference DBAI procedure until the CETI procedure is made publicly available. Previously scheduled Evaluation of Changes, Tests, & Experiments and Heat Sink inspections have been cancelled and removed from attached Report 22.

[2] The age-related degradation and management procedure is under development and will be publicly available by the end of calendar year 2022.

inspectors and completion of nominal baseline inspection samples. We continue to monitor site-specific conditions, and it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC's critical safety mission.[3]

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 Unit 1 in January 2023, and for Unit 2 in March and July 2023.

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

Digitally signed by Jonathan E. Greives
Date: 2022.08.31 08:40:04 -04'00'

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

[3]This is discussed in our memo, "Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program" (ML21295A302), dated November 2, 2021.

SUBJECT: UPDATED INSPECTION PLAN FOR THE SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORT 05000387/2022005 AND 05000388/2022005) DATED AUGUST 31, 2022

DISTRIBUTION:
JGreives, DORS
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RidsNrrPMSusquehanna Resource
RidsNrrDorlLpl1 Resource
DORS Specialist Branch Chiefs
DRSS Reactor Branch Chiefs
DTifft, RI, SLO
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RidsNrrDrolrabResource

DOCUMENT NAME: https://usnrc.sharepoint.com/teams/ROPAssessmentMeetings/Shared Documents/ROP-23 Second Quarter Process/Branch 4/Susquehanna ROP-23 Inspection Plan Transmittal Letter.docx
ADAMS Accession No. ML22242A024

☑ SUNSI Review		☑ Non-Sensitive ☐ Sensitive		☑ Publicly Available ☐ Non-Publicly Available	
OFFICE	RI/DORS	RI/DORS			
NAME	LCasey	JGreives			
DATE	8/29/22	8/29/22			

OFFICIAL RECORD COPY

Detailed Site Inspection Activity

Susquehanna

07/01/2022 - 06/30/2024

Unit	Start	End	Activity	CAC	EPID #	ADAMS #	Title	Staff Count
ISFSI Inspections for use of new CoC (60853, 54, 55, 56) - SQ								3
1,2	7/25/2022	7/29/2022	IP 60854	001000			Preoperational Testing Of An ISFSI	
1,2	8/29/2022	9/2/2022	IP 60854	001000			Preoperational Testing Of An ISFSI	
1,2	9/6/2022	9/9/2022	IP 60854	001000			Preoperational Testing Of An ISFSI	
1,2	9/19/2022	9/23/2022	IP 60854	001000			Preoperational Testing Of An ISFSI	
1,2	9/26/2022	9/30/2022	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	I-2022-401-0067	ML22223A130	Material Control and Accounting (MC&A)	
Design Bases Assurance Inspection - Teams - Susquehanna Units 1 and 2								6
1,2	8/7/2022	8/13/2022	IP 71111.21M	000713	I-2022-013-0004		Design Bases Assurance Inspection (Teams)	
1,2	8/21/2022	8/27/2022	IP 71111.21M	000713	I-2022-013-0004		Design Bases Assurance Inspection (Teams)	
Cyber Security - Susquehanna								4
1,2	10/3/2022	10/7/2022	IP 71130.10	000741	I-2022-404-0009		Cybersecurity	
EP EXERCISE INSPECTION - SUSQUEHANNA								4
1,2	10/17/2022	10/21/2022	IP 71114.01	000716	I-2022-501-0013		Exercise Evaluation	
1,2	10/17/2022	10/21/2022	IP 71151	001397	I-2022-501-0013		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	I-2022-403-0013		Access Control	
1,2	10/24/2022	10/28/2022	IP 71130.04	000736	I-2022-403-0013		Equipment Performance, Testing, and Maintenance	
1,2	10/24/2022	10/28/2022	IP 71130.07	000739	I-2022-403-0013		Security Training	
1,2	10/24/2022	10/28/2022	IP 71130.09	001656	I-2022-403-0013		Security Plan Changes	
1,2	10/24/2022	10/28/2022	IP 71151	001338	I-2022-403-0013		Performance Indicator Verification	

Detailed Site Inspection Activity

Rad Safety - Dosimetry & PIV							1
1,2	11/14/2022	11/18/2022	IP 71124.04	000728	I-2022-004-0040	Occupational Dose Assessment	
1,2	11/14/2022	11/18/2022	IP 71151	000746	I-2022-004-0040	Performance Indicator Verification	
License Renewal Phase 3 - Susquehanna Unit 1							2
1	1/23/2023	1/27/2023	IP 71003	000687		Post-Approval Site Inspection for License Renewal	
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	
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	
License Renewal Phase 2 - Susquehanna Unit 2							1
2	7/24/2023	7/28/2023	IP 71003	000687		Post-Approval Site Inspection for License Renewal	
FY23 Susquehanna Initial License Exam							4
1,2	6/25/2023	6/30/2023	OV	000956	L-2023-OLL-0009	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	7/31/2023	8/11/2023	EXAD	000500	L-2023-OLL-0009	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Rad Safety - Radwaste Shipping PIV							1

Detailed Site Inspection Activity

1,2	9/18/2023	9/22/2023	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
1,2	9/18/2023	9/22/2023	IP 71151	000746	Performance Indicator Verification	
EP PROGRAM INSPECTION - SUSQUEHANNA						1
1,2	10/16/2023	10/20/2023	IP 71114.02	000717	Alert and Notification System Testing	
1,2	10/16/2023	10/20/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	10/16/2023	10/20/2023	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1,2	10/16/2023	10/20/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1,2	10/16/2023	10/20/2023	IP 71151	001397	Performance Indicator Verification	
Fire Protection - Susquehanna						3
1,2	10/30/2023	11/3/2023	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1,2	11/13/2023	11/17/2023	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
Susquehanna Requal Inspection with P/F Results						2
1,2	11/19/2023	11/24/2023	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1,2	11/19/2023	11/24/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
Commercial Grade Dedication - Susquehanna						3
1,2	1/29/2024	2/2/2024	IP 71111.21N.03	001808	Commercial Grade Dedication	
1,2	2/12/2024	2/16/2024	IP 71111.21N.03	001808	Commercial Grade Dedication	
RP - 71124.04 Dosimetry						1
1,2	2/5/2024	2/9/2024	IP 71124.04	000728	Occupational Dose Assessment	
RP - 71124.01 Rad Hazards RFO						1
1,2	3/25/2024	3/29/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
Inservice Inspection - Susquehanna Unit 1						1
1	4/1/2024	4/5/2024	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	