



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

August 28, 2019

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 05000387/2019005 AND
05000388/2019005)

Dear Mr. Berryman:

The enclosed inspection plan lists the inspections scheduled through June 30, 2021, 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. 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.

NRC Region I plans to conduct an inspection per Temporary Instruction 2515/194, "Inspection of the Licensees' Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems," at your facility during the period.

Additionally, NRC Region I plans to conduct inspections per Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and Inspection Procedure 71003, "Post-Approval Site Inspection for License Renewal," at your facility during the period.

You should be aware that the agency is pursuing potential changes to the Reactor Oversight Process, 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 Reactor Oversight Process be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020.

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,

/RA/

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

Docket Nos. 50-387 and 50-388
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 05000387/2019005 AND
05000388/2019005) DATED AUGUST 28, 2019

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OFFICE	RI/DRP	RI/DRP			
NAME	LCasey	JGreives			
DATE	8/21/19	8/23/19			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Susquehanna

07/01/2019 - 06/30/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
SUSQUEHANNA INITIAL OL EXAM						4
1, 2	07/28/2019	08/02/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	08/25/2019	09/07/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
ISFSI OPERATIONAL INSPECTION						2
1, 2	09/09/2019	09/13/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
DESIGN BASES ASSURANCE INSP - TEAMS						6
1, 2	09/15/2019	09/21/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	09/29/2019	10/05/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
EP PROGRAM INSPECTION						2
1, 2	10/01/2019	11/27/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/21/2019	10/25/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	10/21/2019	10/25/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	10/21/2019	10/25/2019	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	10/21/2019	10/25/2019	IP 71151	001397	Performance Indicator Verification	
SQ REQUAL INSP WITH P/F RESULTS						2
1, 2	10/13/2019	10/18/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
HP Rad Hazard Assessment, ALARA, Airborne and Pls (.01, .02, .03, 71151)						1
1, 2	11/04/2019	11/08/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/04/2019	11/08/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/04/2019	11/08/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
TI-194 Open Phase Condition Inspection-SQ						2
1, 2	02/03/2020	02/07/2020	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)	
Radwaste						1
1, 2	03/09/2020	03/13/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

IP 22 Inspection Activity Plan Report

Susquehanna

07/01/2019 - 06/30/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
License Renewal Phase 1 - Unit 1						1
1	04/05/2020	04/11/2020	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
ISI - UNIT 1						1
1	04/05/2020	04/11/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
HP						1
1, 2	04/13/2020	04/17/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/13/2020	04/17/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
Access Control, Protective Strategy, TSR						4
1, 2	06/15/2020	06/19/2020	IP 71130.02	000734	Access Control	
1, 2	06/15/2020	06/19/2020	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	06/15/2020	06/19/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	06/15/2020	06/19/2020	IP 71151	001338	Performance Indicator Verification	
HP						1
1, 2	07/06/2020	07/10/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	07/06/2020	07/10/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	07/06/2020	07/10/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	07/06/2020	07/10/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	07/06/2020	07/10/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
PI&R Biennial Team Inspection						4
1, 2	07/13/2020	07/17/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	07/27/2020	07/31/2020	IP 71152B	000747	Problem Identification and Resolution	
TRIENNIAL FIRE PROTECTION						4
1, 2	09/21/2020	09/25/2020	IP 71111.05T	000696	Fire Protection	
1, 2	10/05/2020	10/09/2020	IP 71111.05T	000696	Fire Protection	
RETS						1
1, 2	10/05/2020	10/09/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
SUSQUEHANNA EP EXERCISE INSPECTION						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	

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

07/01/2019 - 06/30/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
SUSQUEHANNA EP EXERCISE INSPECTION						5
1, 2	10/19/2020	10/23/2020	IP 71151	001397	Performance Indicator Verification	
HP						1
1, 2	12/14/2020	12/18/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/14/2020	12/18/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	12/14/2020	12/18/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/14/2020	12/18/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	12/14/2020	12/18/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
License Renewal Phase 1 - Unit 2						2
2	04/04/2021	04/10/2021	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
INSERVICE INSPECTION						1
2	04/04/2021	04/10/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
HP						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	
HEAT SINK INSPECTION - BIENNIAL						1
1, 2	05/16/2021	05/22/2021	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
FY21 Susquehanna Initial Examination						4
1, 2	05/23/2021	05/28/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	06/20/2021	07/02/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
REMP						1
1, 2	05/24/2021	05/28/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
FORCE-ON-FORCE PLANNING & EXERCISE						5
1, 2	06/28/2021	07/02/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	