

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

March 4, 2019

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORTS 05000387/2018006 AND 05000388/2018006)

Dear Mr. Berryman,

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Susquehanna Steam Electric Station (Susquehanna), Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2018, through December 31, 2018. 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 Susquehanna, Units 1 and 2 during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," 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, 2020. 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"). 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, beginning in January 2020. Furthermore, all 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 addition to baseline inspections, the NRC will conduct Temporary Instruction 2515/191, "Inspection of Licensee's Responses to Order EA-12-049, EA-12-051, and Emergency Preparedness Info Request," in June 2019; Inspection Procedure 60855.1, "Operation of an ISFSI at Operating Plant," in September 2019; and Inspection Procedure 71003, "Post Approval Site Inspection for License Renewal," (Unit 1) in April 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's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <u>http://www.nrc.gov/reading-rm/adams.html</u> (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 w/encl: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 (REPORTS 05000387/2018006 AND 05000388/2018006) DATED MARCH 4, 2019

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-19 EOC Review\Branch 4\Susquehanna 2018 Annual Assessment- final.docx ADAMS ACCESSION NUMBER: ML19060A196

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Susquehanna

01/01/2019 - 12/31/2020

Staff Count
10
3
1
1
1
1
3
EP Info Request
4
2
ating Plants
6

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

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title Staff Cou	int
DESIGN BASE	S ASSURANCE II	NSP - TEAMS				6
1, 2	09/29/2019	10/05/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
EP PROGRAM	I INSPECTION					2
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	
НР						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	Radiological Hazard Assessment and Exposure Controls Occupational ALARA Planning and Controls In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/04/2019	11/08/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/04/2019	11/08/2019	IP 71124.04	000728	In-Plant Airborne Radioactivity Control and Mitigation Occupational Dose Assessment	
1, 2	11/04/2019	11/08/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	11/04/2019	11/08/2019	IP 71151	000746	Performance Indicator Verification	
SQ REQUAL I	NSP WITH P/F R	ESULTS				2
1, 2	11/17/2019	11/22/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance (Annual)	
1, 2	11/17/2019	11/22/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
Radwaste						1
1, 2	03/09/2020	03/13/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, an Transportation	d
License Renew	wal Phase 1 - Un	it 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)	
НР						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	

This report shows only on-site and announced inspection procedures.

Susquehanna

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
Access Contr	ol, Protective Str	ategy, 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	
НР						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 Biennia	al Team Inspectio	n				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 F	IRE PROTECTION					4
1, 2	09/21/2020	09/25/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
1, 2	10/05/2020	10/09/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
RETS						1
1, 2	10/05/2020	10/09/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
SUSQUEHAN	INA 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 71151	001397	Performance Indicator Verification	
НР						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	