

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

February 28, 2018

Mr. Timothy S. Rausch Senior Vice President and Chief Nuclear Officer Susquehanna Nuclear, LLC 769 Salem Blvd. - NUCSB3 Berwick, PA 18603-0467

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SUSQUEHANNA UNITS 1 AND 2 (REPORT 05000387/2017006 AND 05000388/2017006 REPORT 05000387/ 2017402 AND 05000388/2017402 REPORT 05000387/2017501 AND 05000388/2017501)

Dear Mr. Rausch:

The NRC has completed its end-of-cycle performance assessment of Susquehanna Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. 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, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, 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, 2019. 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. 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.

Additionally, the NRC plans to conduct Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plant."

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). T. Rausch

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Please contact me at 610-337-5120 with any questions you may have regarding this letter.

Sincerely,

/RA/

James A. Krafty, Acting 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/Activity Plan SUBJECT: ANNUAL ASSESSMENT LETTER FOR SUSQUEHANNA UNITS 1 AND 2 (REPORT 05000387/2017006 AND 05000388/2017006 REPORT 05000387/2017402 AND 05000388/2017402 REPORT 05000387/2017501 AND 05000388/2017501) DATED FEB 28, 2018

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-18 EOC Review\Branch 4\SUS\SUS 2017 ROP 18 Annual Assessment Letter.docx ADAMS PKG NO. ML18046A489 ADAMS Accession No. ML18047A008

☑ SUNSI Review		☑ Non-Sensitive□ Sensitive			Publicly AvailableNon-Publicly Available		
OFFICE	RI/DRP	RI/DR	RP				
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DATE	2/28/18	2/28/1	18				

OFFICIAL RECORD COPY

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
EQ PROGRAI	М					3
1, 2	01/22/2018	01/26/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	02/05/2018	02/09/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
ACCESS AUT	H & CONTROL, S	GI CONTROL, F	FD			3
1, 2	01/29/2018	02/02/2018	IP 71130.01	000733	Access Authorization	
1, 2	01/29/2018	02/02/2018	IP 71130.02	000734	Access Control	
1, 2	01/29/2018	02/02/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	01/29/2018	02/02/2018	IP 71130.08	000740	Fitness For Duty Program	
1, 2	01/29/2018	02/02/2018	IP 71151	001338	Performance Indicator Verification	
SUSQUEHAN	INA INITIAL OL E	ХАМ				3
1, 2	02/04/2018	02/09/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	03/05/2018	03/16/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
TRIENNIAL H	HEAT SINK					1
1, 2	02/26/2018	03/02/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
UNIT 1 INSE	RVICE INSPECTIO	N				1
1	04/09/2018	04/13/2018	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
HP INSPECTI	ION					1
1	04/09/2018	04/13/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/09/2018	04/13/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
HP INSPECTI	ION					1
1, 2	06/04/2018	06/08/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	06/04/2018	06/08/2018	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	06/04/2018	06/08/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
PI&R BIENN						4
1, 2	06/11/2018	06/15/2018	IP 71152B	000747	Problem Identification and Resolution	
1, 2	06/25/2018	06/29/2018	IP 71152B	000747	Problem Identification and Resolution	
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01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
FORCE-ON-F	ORCE PLANNING	6 & EXERCISE W	EEK			7
1, 2	07/16/2018	07/20/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	08/06/2018	08/10/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
RETS						1
1, 2	08/06/2018	08/10/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
50.59 PROCE	SS					3
1, 2	08/20/2018	08/24/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
RADWASTE						1
1, 2	09/17/2018	09/21/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handl Transportation	ing, Storage, and
MC&A						1
1, 2	09/24/2018	09/28/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
EP EXERCISE	INSPECTION					2
1, 2	10/15/2018	10/19/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/15/2018	10/19/2018	IP 71151	001397	Performance Indicator Verification	
CYBER FULL	ІМР					2
1, 2	10/15/2018	10/19/2018	IP 71130.10P	000741	Cyber Security	
1, 2	10/29/2018	11/02/2018	IP 71130.10P	000741	Cyber Security	
BASELINE HF	& PI VERIFICAT	ION				1
1, 2	12/10/2018	12/14/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/10/2018	12/14/2018	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	12/10/2018	12/14/2018	IP 71151	000746	Performance Indicator Verification	
ACCESS CON	TROL, EQUIP PER	RF, TRAINING				3
1, 2	02/11/2019	02/15/2019	IP 71130.02	000734	Access Control	
1, 2	02/11/2019	02/15/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	02/11/2019	02/15/2019	IP 71130.07	000739	Security Training	
1, 2	02/11/2019	02/15/2019	IP 71151	001338	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.

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

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title Staff Co	unt
НР						1
1, 2	02/25/2019	03/01/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/25/2019	03/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
INSERVICE IN	SPECTION - UN	T 2				1
2	04/22/2019	04/26/2019	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
НР						1
2	04/29/2019	05/03/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2	04/29/2019	05/03/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/29/2019	05/03/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
REMP						1
1, 2	05/20/2019	05/24/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
SUSQUEHAN	INA INITIAL OL E	ХАМ				4
1, 2	05/27/2019	05/31/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	06/24/2019	07/05/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
	ES ASSURANCE II					6
1, 2	09/16/2019	09/20/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	-
1, 2	09/30/2019	10/04/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
ISFSI OPERA	TIONAL INSPECT	ION				2
1, 2	09/23/2019	09/27/2019	IP 60855	001001	Operation Of An ISFSI	
1, 2	09/23/2019	09/27/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
НР						1
1, 2	10/21/2019	10/25/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/21/2019	10/25/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/21/2019	10/25/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/21/2019	10/25/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	10/21/2019	10/25/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	10/21/2019	10/25/2019	IP 71151	000746	Performance Indicator Verification	
EP PROGRAM	INSPECTION					2
1, 2	10/23/2019	10/27/2019	IP 71114.02	000717	Alert and Notification System Testing	

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

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title Staff C	Count
EP PROGRAM	I INSPECTION					2
1, 2	10/23/2019	10/27/2019	IP 71114.03	000718	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	10/23/2019	10/27/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	10/23/2019	10/27/2019	IP 71151	001397	Performance Indicator Verification	
SQ REQUAL I	NSP WITH P/F R	ESULTS				2
1, 2	10/28/2019	11/01/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance Annual	-
1, 2	10/28/2019	11/01/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance Biennial	-