



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713**

March 1, 2017

Mr. Timothy S. Rausch
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 NOS. 05000387/2016006 AND 05000388/2016006**

Dear Mr. Rausch:

The U.S. Nuclear Regulatory Commission (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, 2016 through December 31, 2016. 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, 2018. 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. Additionally, the NRC plans to conduct temporary instruction (TI) 192, Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

T. Rausch

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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's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, 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 NOS. 05000387/2016006 AND 05000388/2016006 DATED
 MARCH 1, 2017

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Susquehanna
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111108G - U2 INSERVICE INSPECTION		1
2	03/13/2017	03/17/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			71124 - HP INSPECTION		1
2	03/20/2017	03/24/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	03/20/2017	03/24/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/20/2017	03/24/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			71124.07 - REMP		1
1, 2	06/26/2017	06/30/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			7111105T - TRIENNIAL FIRE PROTECTION		5
1, 2	08/14/2017	08/18/2017	IP 7111105T	Fire Protection [Triennial]	
1, 2	08/28/2017	09/01/2017	IP 7111105T	Fire Protection [Triennial]	
			7111111B - SQ REQUAL INSP WITH P/F RESULTS		2
1, 2	10/30/2017	11/03/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
1, 2	10/30/2017	11/03/2017	IP 7111111B	Licensed Operator Requalification Program	
			11/6EXAM - SUSQUEHANNA INITIAL OL EXAM		4
1	02/05/2018	02/09/2018	U01950	FY18-SUSQUEHANNA INITIAL OPERATOR LICENSING EXAM	
1	03/05/2018	03/16/2018	U01950	FY18-SUSQUEHANNA INITIAL OPERATOR LICENSING EXAM	
			71124 - HP INSPECTION		1
1, 2	10/02/2017	10/06/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/02/2017	10/06/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			EP - EP PROGRAM INSPECTION		1
1, 2	10/30/2017	11/03/2017	IP 7111402	Alert and Notification System Testing	
1, 2	10/30/2017	11/03/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	10/30/2017	11/03/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	10/30/2017	11/03/2017	IP 71151	Performance Indicator Verification	
			71124 - HP INSPECTION		1
1, 2	12/11/2017	12/15/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/11/2017	12/15/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	12/11/2017	12/15/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	12/11/2017	12/15/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			7111121N - EQ PROGRAM		2
1, 2	01/22/2018	01/26/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	02/05/2018	02/09/2018	IP 7111121N	Component Design Bases Inspection (Programs)	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Susquehanna
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			HEAT - TRIENNIAL HEAT SINK		1
1, 2	02/26/2018	03/02/2018	IP 7111107T	Heat Sink Performance	
			71124 - HP INSPECTION		1
1	04/09/2018	04/13/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/09/2018	04/13/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/09/2018	04/13/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			U1 ISI - UNIT 1 INSERVICE INSPECTION		2
1	04/09/2018	04/13/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			71152B - PI&R BIENNIAL		1
1, 2	06/11/2018	06/15/2018	IP 71152B	Problem Identification and Resolution	
1, 2	06/25/2018	06/29/2018	IP 71152B	Problem Identification and Resolution	
			71124 - HP INSPECTION		1
1, 2	06/04/2018	06/08/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	06/04/2018	06/08/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	06/04/2018	06/08/2018	IP 71124.05	Radiation Monitoring Instrumentation	
			71124.06 - RETS		1
1, 2	08/06/2018	08/10/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			50.59 - EVALS OF CHANGES, TESTS, & EXPERIMENTS		3
1, 2	08/20/2018	08/24/2018	IP 7111117T-5059scrm	screenings and/or applicability determinations	
			EP - EP EXERCISE INSPECTION		4
1, 2	10/15/2018	10/19/2018	IP 7111401	Exercise Evaluation	
1, 2	10/15/2018	10/19/2018	IP 71151	Performance Indicator Verification	
			71124.08 - RADWASTE		1
1, 2	10/15/2018	10/19/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - BASELINE HP & PI VERIFICATION		1
1, 2	12/10/2018	12/14/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/10/2018	12/14/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	12/10/2018	12/14/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	12/10/2018	12/14/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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