



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

March 4, 2015

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SUSQUEHANNA STEAM
ELECTRIC STATION, UNITS 1 AND 2 (REPORT 05000387/2014001 AND
05000388/2014001)**

Dear Mr. Rausch:

On February 9, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Susquehanna Steam Electric Station (Susquehanna) Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014 through December 31, 2014. 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 determined the performance at Susquehanna Unit 1 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Additionally, the NRC determined the performance at Susquehanna Unit 2 during the most recent quarter was within the Licensee Response Column of the NRC's ROP Action Matrix because we satisfactorily completed Inspection Procedure (IP) 95002, "Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area," on July 31, 2014, in which we reviewed your identified root causes and corrective actions for the Unplanned Scrams with Complications and the Unplanned Scrams per 7000 Critical Hours PIs. We also conducted a public performance assessment meeting on September 3, 2014, to report the results of this inspection and issued an assessment follow-up letter on September 12, 2014, in which we described Unit 2's transition to the Licensee Response Column of the NRC's Action Matrix (Report 05000388/2014008, ML14255A250). Therefore, because all Unit 1 and Unit 2 findings and PIs that input into the Action Matrix are Green, we plan to perform NRC baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. In addition to ROP baseline inspections, the NRC plans to perform Inspection Procedure (IP) 92702, "Follow-up on Corrective Actions for Violations and Deviations," once you notify the NRC of your readiness for this inspection. The

T. Rausch

2

NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security-related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 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 Fred Bower at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel H. Dorman
Regional Administrator

Docket Nos. 50-387, 50-388
License Nos. NPF-14, NPF-22

Enclosure: Susquehanna Inspection/Activity Plan

cc w/encl: Distribution via ListServ

NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security-related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 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 Fred Bower at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel H. Dorman
Regional Administrator

Docket Nos. 50-387; 50-388
License Nos. NPF-14, NPF-22

Enclosure: Susquehanna Inspection/Activity Plan

cc w/encl: Distribution via ListServ

Distribution: (via e-mail)

D. Dorman, RA
D. Lew, DRA
H. Nieh, DRP
M. Scott, DRP
R. Lorson, DRS
J. Trapp, DRS
F. Bower, DRP
S. Barber, DRP

A. Turilin, DRP
B. Lin, DRP
J. Greives, DRP, SRI
T. Daun, DRP, RI
A. Gould, DRP, AA
K. MorganButler, RI, OEDO
RidsNrrPMSusquehanna Res
RidsNrrDorLp1-2 Res

ROPreports Resource
DRS Branch Chiefs (6)
N. McNamara, RI, SLO
D. Tiff, RI, SLO
D. Screnci, RI, PAO
N. Sheehan, RI, PAO
RidsNrrDirslpab Res
ROPassessment Resource

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-15 EOC Review\Branch 4\Susquehanna\SQ ROP-15 EOC letter .docx
ADAMS Accession No.: **ML15062A232**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP	RI/ORA	
NAME	SBarber/GSB *	FBower/ FLB *	HNieh/ HKN *	DDorman/ DHD	
DATE	02/19/15	02/19/15	02/25/15	03/02/15	

OFFICIAL RECORD COPY

* see prior concurrence

Susquehanna
Inspection / Activity Plan
01/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			1/19EXAM - SUSQUEHANNA RETAKE EXAM		2
1	01/19/2015	01/23/2015	U01933	FY15-SUSQUEHANNA INITIAL OPERATOR LICENSING RETAKE EXAM	
			7111107T - TRIENNIAL HEAT SINK		1
1, 2	02/23/2015	02/27/2015	IP 7111107T	Heat Sink Performance	
			8/17EXAM - INITIAL OL EXAM		3
1	07/20/2015	07/24/2015	U01916	FY15-SUSQUEHANNA INITIAL OPERATOR LICENSING EXAM	
1	08/17/2015	08/28/2015	U01916	FY15-SUSQUEHANNA INITIAL OPERATOR LICENSING EXAM	
			7111108G - U2 INSERVICE INSPECTION		1
2	04/20/2015	04/24/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			71124 - RAD SAFETY INSPECTION		1
1, 2	04/27/2015	05/01/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/27/2015	05/01/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/27/2015	05/01/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/27/2015	05/01/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	04/27/2015	05/01/2015	IP 71151	Performance Indicator Verification	
			71124.07 - RAD SAFETY INSPECTION		1
1, 2	06/15/2015	06/19/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	06/15/2015	06/19/2015	IP 71151	Performance Indicator Verification	
			71124 - RAD SAFETY INSPECTION		1
1, 2	08/17/2015	08/21/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	08/17/2015	08/21/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	08/17/2015	08/21/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	08/17/2015	08/21/2015	IP 71124.04	Occupational Dose Assessment	
			MODS - PERMANENT PLANT MODIFICATIONS		3
1, 2	08/31/2015	09/04/2015	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	09/14/2015	09/18/2015	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			7111111B - REQUAL INSP W/ P/F RESULTS		2
1, 2	10/26/2015	10/30/2015	IP 7111111B	Licensed Operator Requalification Program	
			71124 - RAD SAFETY INSP		1
1, 2	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/05/2015	10/09/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/05/2015	10/09/2015	IP 71124.04	Occupational Dose Assessment	

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

Susquehanna
Inspection / Activity Plan
01/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
EP - EP PROGRAM INSPECTION					1
1, 2	10/26/2015	10/30/2015	IP 7111402	Alert and Notification System Testing	
1, 2	10/26/2015	10/30/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	10/26/2015	10/30/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
ISI - U1 INSERVICE INSPECTION					1
1	03/21/2016	03/25/2016	IP 7111108G	Inservice Inspection Activities - BWR	
RS1234PI - HP OUTAGE INSPECTION					1
1, 2	03/28/2016	04/01/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/28/2016	04/01/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/28/2016	04/01/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/28/2016	04/01/2016	IP 71124.04	Occupational Dose Assessment	
RS6PI - EFFLUENTS PUBLIC PI					1
1, 2	06/13/2016	06/17/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/13/2016	06/17/2016	IP 71151-PR01		

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