



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

November 5, 2013

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

SUBJECT: ASSESSMENT FOLLOW-UP LETTER FOR SUSQUEHANNA STEAM  
ELECTRIC STATION - UNIT 2 (REPORT 05000388/2013014)

Dear Mr. Rausch:

As a result of its quarterly review of plant performance, the U. S. Nuclear Regulatory Commission (NRC) updated its assessment of Susquehanna Unit 2. The NRC's evaluation consisted of a review of performance indicators and inspection results. This letter informs you of the NRC's assessment of your facility. This letter supplements, but does not supersede, the mid-cycle letter (Report 05000388/2013006) issued on September 3, 2103.

In our mid-cycle letter, the NRC determined the performance at Susquehanna Unit 2 as of the end of the second quarter of 2013 was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because one performance indicator (PI) was of low to moderate safety significance (White) in the Initiating Events cornerstone. Specifically, the "Unplanned Scrams with Complications" PI exceeded the Green/White threshold value in the fourth quarter of 2012. You were notified of the change to the ROP Action Matrix Column in an assessment follow-up letter (Report 05000388/2013009) issued on April 1, 2013. This letter also notified you of the NRC's plans to schedule and perform a supplemental inspection using Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." This supplemental inspection was conducted during the third quarter of 2013 and the results of that inspection are forthcoming in separate correspondence.

The NRC's third quarter review of Susquehanna Unit 2 determined that the "Unplanned Scrams with Complications" PI remained White in the third quarter of 2013. The NRC's review also identified that the Susquehanna Unit 2 "Unplanned Scrams" PI crossed the Green/White threshold value (i.e., greater than three unplanned scrams per 7,000 critical hours over a four quarter period) in the third quarter of 2013. Specifically, Susquehanna Unit 2 had unplanned scrams on November 9, 2012, December 16, 2012, December 19, 2012, and September 14, 2013. This second White PI in the Initiating Events cornerstone has caused the NRC to reassess Susquehanna Unit 2's performance relative to NRC's Action Matrix.

As a result, the NRC determined the performance at Susquehanna Unit 2 during the third quarter of 2013 was within the Degraded Cornerstone Column of the NRC's ROP Action Matrix because all inspection findings had very low safety significance (Green) and two PIs were of low to moderate safety significance (White) in the Initiating Events cornerstone. Therefore, the NRC plans to schedule and perform a supplemental inspection using Inspection Procedure 95002, "Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area." The NRC requests that your staff provide notification of your readiness for the NRC to conduct a supplemental inspection.

In accordance with 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 Mr. Fred L. Bower at 610-337-5200 with any questions you have regarding this letter.

Sincerely,

*/RA/*

William M. Dean  
Regional Administrator

Docket No. 50-388  
License No. NPF-22

cc: Distribution via ListServ

As a result, the NRC determined the performance at Susquehanna Unit 2 during the third quarter of 2013, was within the Degraded Cornerstone Column of the NRC’s ROP Action Matrix because all inspection findings had very low safety significance (Green) and two PIs were of low to moderate safety significance (White) in the Initiating Events cornerstone. Therefore, the NRC plans to schedule and perform a supplemental inspection using Inspection Procedure 95002, “Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area.” The NRC requests that your staff provide notification of your readiness for the NRC to conduct a supplemental inspection.

In accordance with 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 Mr. Fred L. Bower at 610-337-5200 with any questions you have regarding this letter.

Sincerely,

*/RA/*

William M. Dean  
Regional Administrator

Docket No. 50-388  
License No. NPF-22

cc: Distribution via ListServ

Distribution: (via e-mail)  
W. Dean, RA  
D. Lew, DRA  
D. Roberts, 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  
S. Farrell, DRP, AA  
D. Rich, RI OEDO  
DRS Branch Chiefs  
N. McNamara, RI, SLO  
D. Tiff, RI, SLO

D. Screnci, RI, PAO  
N. Sheehan, RI, PAO  
RidsNrrPMSusquehanna  
Resource  
RidsNrrDorLpl1-2 Resource  
ROPReports Resource  
RidsNrrDirslpab Resource  
ROPAssessment Resource

DOC: G:\DRP\BRANCH4\Assessment (EOC, MC)\Susquehanna Degraded Cornerstone Assessment Follow-Up Letter\_final.docx  
ADAMS Accession No: **ML13310A301**

<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 <i>klm</i>	RI/DRP	RI/DRP	RI/DRP	RI/RA	
NAME	SBarber/SB	FBower/FLB	DRoberts/DJR	WDean/WMD	
DATE	10/31/13	10/31/13	11/4/13	11/5/13	