

### UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I

475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415

March 4, 2009

Mr. William H. Spence Executive Vice President Chief Operating Officer/Chief Nuclear Officer PPL Corporation Two North Ninth Street, GENTW16 Allentown, PA 18101-1179

# SUBJECT: ANNUAL ASSESSMENT LETTER – SUSQUEHANNA STEAM ELECTRIC STATION (REPORT 05000387/2009001and 05000388/2009001)

Dear Mr. Spence:

On February 10, 2009, the NRC Staff completed its performance review of Susquehanna Steam Electric Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, Susquehanna Steam Electric Station Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2010. In addition to the baseline inspections, we plan on conducting inspections concerning your independent spent fuel storage installation and power uprates. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

The NRC also issued a potential chilling effect letter (CEL) to Susquehanna on January 28, 2009, regarding the safety conscious work environment (SCWE) at the site (ML090280115).<sup>1</sup> The NRC expressed concern with the progress and effectiveness of PPL actions during 2008 to address indications of a declining SCWE and negative employee perceptions, as it may impact

<sup>&</sup>lt;sup>1</sup> Designation in parentheses refers to an ADAMS ascension number. Documents referenced in this letter are publicly available using the ascension number in ADAMS.

employee willingness to raise safety concerns and lead to a chilling effect at the site. PPL subsequently responded to the potential CEL on February 27, 2009 (ML090620124). The NRC is evaluating the adequacy of PPL's response, and will schedule a meeting to discuss the progress and results of PPL's work environment improvement activities. NRC will continue to monitor PPL's progress through the ROP baseline inspection program. Although not included in the current assessment period, the CEL will be a formal input to our upcoming assessment of plant performance for the period ending June 30, 2009, as described in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program" (ML082770835).

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter and its enclosure will be made 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 <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the changes as soon as possible. Please contact me at 610-337-5120 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Paul G. Krohn, Chief Division of Reactor Projects Projects Branch 4

Docket Nos. 50-387, 50-338 License Nos. NPF-14, NPF-22

Enclosure: Susquehanna Inspection/Activity Plan

cc w/encl:

- C. Gannon, Vice President, Nuclear Operations
- R. Paley, General Manager, Plant Support
- R. Pagodin, General Manager, Nuclear Engineering
- T. Harpster, Vice President, Bell Bend Development
- M. Crowthers, Manager, Nuclear Regulatory Affairs
- R. Smith, General Manager, Site Preparedness and Services
- D. Brophy, Supervisor, Nuclear Regulatory Affairs
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- Supervisor, Document Control Services, PPL Susquehanna, LLC
- R. Osborne, Allegheny Electric Cooperative, Inc.
- D. Allard, Director, PA Dept of Environmental Protection
- Board of Supervisors, Salem Township
- J. Johnsrud, National Energy Committee, Sierra Club
- E. Epstein, TMI-Alert (TMIA)
- J. Powers, Dir, PA Office of Homeland Security
- R. French, Dir, PA Emergency Management Agency
- Institute of Nuclear Power Operations (INPO)

employee willingness to raise safety concerns and lead to a chilling effect at the site. PPL subsequently responded to the potential CEL on February 27, 2009 (ML090620124). The NRC is evaluating the adequacy of PPL's response, and will schedule a meeting to discuss the progress and results of PPL's work environment improvement activities. NRC will continue to monitor PPL's progress through the ROP baseline inspection program. Although not included in the current assessment period, the CEL will be a formal input to our upcoming assessment of plant performance for the period ending June 30, 2009, as described in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program" (ML082770835).

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Sincerely, /RA/ Paul G. Krohn, Chief Division of Reactor Projects Projects Branch 4

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SUNSI REVIEW COMPLETE: <u>PGK</u> (Reviewer's Initials)

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DATE	02/26 /09		03/03/09		03/03/09	

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# Susquehanna Inspection / Activity Plan

01/01/2009 - 06/30/2010

Unit	Planne	d Dates			No. of Staff
Number	Start	End	Inspection Activity	Title	on Site
			71002 - LICEN	ESE RENEWAL INSPECTION	1
1,2	01/01/2009	01/12/2009	IP 71002	License Renewal Inspection	
			71004 - POWE	R UPRATE	6
1,2	03/01/2009	12/31/2009	IP 71004	Power Uprate	
			7111108G - U2 INS	SERVICE INSPECTION	1
2	04/13/2009	04/17/2009	IP 7111108G	Inservice Inspection Activities - BWR	
			71121 - OCC F	RAD SAFETY	1
2	04/13/2009	04/17/2009	IP 7112101	Access Control to Radiologically Significant Areas	
2	04/13/2009	04/17/2009	IP 7112102	ALARA Planning and Controls	
2	04/13/2009	04/17/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			MODS - PERM	ANENT PLANT MODIFICATIONS	4
1,2	06/01/2009	06/05/2009	IP 711117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	06/15/2009	06/19/2009	IP 711117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			EP PROGR - EP PR	OGRAM INSPECTION	2
1,2	06/21/2009	06/27/2009	IP 7111402	Alert and Notification System Testing	
1,2	06/21/2009	06/27/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	06/21/2009	06/27/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	06/21/2009	06/27/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	06/21/2009	06/27/2009	IP 71151-EP01	Drill/Exercise Performance	
1,2	06/21/2009	06/27/2009	IP 71151-EP02	ERO Drill Participation	
1,2	06/21/2009	06/27/2009	IP 71151-EP03	Alert & Notification System	
			7112203 - PUB F	AD SAFETY - REMP	1
1,2	06/22/2009	06/26/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
			7111111B - BIENN	IIAL REQUAL INSP WITH P/F RESULTS	3
1,2	09/28/2009	10/02/2009	IP 7111111B	Licensed Operator Requalification Program	
			71121 - OCC F	RAD SAFETY	1
1,2	08/10/2009	08/14/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	08/10/2009	08/14/2009	IP 7112102	ALARA Planning and Controls	
1,2	08/10/2009	08/14/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			ISFSI - ISFSI	LOADING CAMPAING INSPECTION	2
1	08/17/2009	08/21/2009	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			7111107T - HEAT	SINK INSP	1
1,2	09/21/2009	09/25/2009	IP 7111107T	Heat Sink Performance	
				RAD SAFETY	1
1,2	11/30/2009	12/04/2009	IP 7112101	Access Control to Radiologically Significant Areas	

This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures. Page 2 of 2 02/26/2009 1

## Susquehanna Inspection / Activity Plan 01/01/2009 - 06/30/2010

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#### Unit **Planned Dates** No. of Staff Number Start End Inspection Activity Title on Site 71121 - OCC RAD SAFETY 1 12/04/2009 IP 7112102 ALARA Planning and Controls 1,2 11/30/2009 Radiation Monitoring Instrumentation and Protective Equipment 1,2 11/30/2009 12/04/2009 IP 7112103 1,2 11/30/2009 12/04/2009 IP 71151-OR01 Occupational Exposure Control Effectiveness 1,2 11/30/2009 12/04/2009 IP 71151-PR01 **RETS/ODCM Radiological Effluent** 71152B - PI&R 4 01/11/2010 IP 71152B Identification and Resolution of Problems 1,2 01/15/2010 1,2 01/25/2010 01/29/2010 IP 71152B Identification and Resolution of Problems ISFSI - ANNUAL SAMPLE - ISFSI INSPECTION 1 01/01/2010 12/31/2010 IP 60855 **Operation Of An ISFSI** 1 2515/173 - GROUNDWATER TI 1 Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative 1,2 02/08/2010 02/12/2010 IP 2515/173 - U1 INSERVICE INSPECTION 7111108G 1 03/15/2010 03/19/2010 IP 7111108G Inservice Inspection Activities - BWR 1 71121 - OCC RAD SAFETY 1 Access Control to Radiologically Significant Areas 03/15/2010 03/19/2010 IP 7112101 1 IP 7112102-7112102R ALARA - Required 03/15/2010 03/19/2010 1 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 03/15/2010 03/19/2010 1 7112201 - PUB RAD SAFETY - RETS 1 05/10/2010 05/14/2010 IP 7112201 Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 1,2 - OCC RAD SAFETY 71121 1 IP 7112101 Access Control to Radiologically Significant Areas 1,2 06/07/2010 06/11/2010 IP 7112102-7112102R ALARA - Required 1,2 06/07/2010 06/11/2010 Radiation Monitoring Instrumentation and Protective Equipment 06/11/2010 IP 7112103 1,2 06/07/2010

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