

March 2, 2005

Mr. Bryce L. Shriver  
President, PPL Generation, LLC and  
Chief Nuclear Officer  
PPL Generation, LLC  
2 North Ninth Street  
Allentown, PA 18101

SUBJECT: Annual Assessment Letter - Susquehanna Steam Electric Station (Report  
05000387/2005001 and 05000388/2005001)

Dear Mr. Shriver

On February 7, 2005, the NRC staff completed its end-of-cycle plant performance assessment of Susquehanna Steam Electric Station (Susquehanna). The end-of-cycle review for Susquehanna involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. 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 so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

This performance review and enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Overall, Susquehanna 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 only reactor oversight process (ROP) baseline inspections at your facility through September 30, 2006.

In our mid-cycle letter dated August 30, 2004, we advised you of the continuation of a substantive cross-cutting issue in the area of problem identification and resolution involving weak evaluations of technical issues. We note that PPL has taken numerous actions which have resulted in corrective action program improvements. We have determined that a substantive cross-cutting issue no longer exists based on the reduced number of findings in the problem identification and resolution area.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved 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 meeting.

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

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610 - 337-5209 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Mohamed M. Shanbaky, Ph.D., Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

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

Enclosure: Susquehanna Inspection/Activity Plan

cc w/encl:

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Mr. Bryce L. Shriver

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Mr. Bryce L. Shriver

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**SISP Review Complete: mms (Reviewer's Initials)**

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**Susquehanna**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>7111108G - INSERVICE INSPECTION - U2</b>		<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/01/2005	03/05/2005	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/14/2005	03/18/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/14/2005	03/18/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/14/2005	03/18/2005	Baseline Inspections
	<b>7111107B - HEAT SINK</b>		<b>2</b>			
1,2	IP 7111107B	Heat Sink Performance		04/18/2005	04/22/2005	Baseline Inspections
	<b>7111121 - SSDI</b>		<b>6</b>			
1,2	IP 7111121	Safety System Design and Performance Capability		06/06/2005	06/10/2005	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		06/20/2005	06/24/2005	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/13/2005	06/17/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		06/13/2005	06/17/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/13/2005	06/17/2005	Baseline Inspections
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program		07/11/2005	07/15/2005	Baseline Inspections
	<b>7111111B - LO REQUAL PROGRAM INSPECTION</b>		<b>3</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		10/03/2005	10/07/2005	Baseline Inspections
1,2	IP 7111111B	Licensed Operator Requalification Program		10/11/2005	10/14/2005	Baseline Inspections
	<b>12/5EXAM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>			
1	U01544	SUSQUEHANNA, UNITS 1&2 INITIAL EXAM (7/25-30/05)		11/07/2005	11/11/2005	Not Applicable
1	U01544	SUSQUEHANNA, UNITS 1&2 INITIAL EXAM (7/25-30/05)		12/05/2005	12/16/2005	Not Applicable
	<b>7111112B - MAINTENANCE RULE</b>		<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		09/19/2005	09/23/2005	Baseline Inspections
	<b>71151 - EP PI VERIFICATION</b>		<b>1</b>			
1,2	IP 71151	Performance Indicator Verification		10/03/2005	10/07/2005	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/31/2005	11/04/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/31/2005	11/04/2005	Baseline Inspections
	<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
1,2	IP 7111105T	Fire Protection		11/14/2005	11/18/2005	Baseline Inspections

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

**Susquehanna**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>TRI FIRE</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
1,2	IP 7111105T	Fire Protection		11/28/2005	12/02/2005	Baseline Inspections
	<b>71152B</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>1</b>			
1,2	IP 71152B	Identification and Resolution of Problems		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		02/06/2006	02/10/2006	Baseline Inspections
	<b>71114</b>	<b>- EP PRGM INSP &amp; PI VERIFICATION</b>	<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		02/06/2006	02/10/2006	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		02/06/2006	02/10/2006	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/06/2006	02/10/2006	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/06/2006	02/10/2006	Baseline Inspections
	<b>7112201</b>	<b>- PUB RAD SAFETY - RETS</b>	<b>1</b>			
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/20/2006	02/24/2006	Baseline Inspections
	<b>711108G</b>	<b>- INSERVICE INSPECTION - UNIT 1</b>	<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		03/13/2006	03/17/2006	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/13/2006	03/17/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		03/13/2006	03/17/2006	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/13/2006	03/17/2006	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/05/2006	06/09/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		06/05/2006	06/09/2006	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/05/2006	06/09/2006	Baseline Inspections
	<b>MODS</b>	<b>- MODS AND 50.59</b>	<b>3</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/12/2006	06/16/2006	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/12/2006	06/16/2006	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/07/2006	08/11/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		08/07/2006	08/11/2006	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/07/2006	08/11/2006	Baseline Inspections
	<b>7111401</b>	<b>- EXERCISE EVALUATION &amp; PI VERIFICATION</b>	<b>2</b>			
1,2	IP 7111401	Exercise Evaluation		09/25/2006	09/29/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/25/2006	09/29/2006	Baseline Inspections