

August 30, 2005

Mr. Britt McKinney  
Senior Vice President, and  
Chief Nuclear Officer  
PPL Generation, LLC  
769 Salem Boulevard - NUCSB3  
Berwick, PA 18603-0467

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
SUSQUEHANNA STEAM ELECTRIC STATION

Dear Mr. McKinney:

On August 4, 2005, the NRC staff completed its performance review of Susquehanna Steam Electric Station Units 1 and 2 for the first half of the calendar year 2005 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 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.

Plant performance at Susquehanna Units 1 and 2 for the most recent quarter 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 March 31, 2007. 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 during the end-of-cycle review.

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 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).

Mr. Britt McKinney

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If circumstances arise which cause us to change the 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 Shanbaky, 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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**SISP Review Complete: ALB (Reviewer's Initials)**

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NAME	FJaxheimer/ALB for	MShanbaky	
DATE	08/24/05	08/30/05	

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**Susquehanna**  
**Inspection / Activity Plan**  
**08/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>711111B - LO REQUAL PROGRAM INSPECTION</b>		<b>3</b>			
1,2	IP 711111B	Licensed Operator Requalification Program		09/12/2005	09/16/2005	Baseline Inspections
1,2	IP 711111B	Licensed Operator Requalification Program		09/19/2005	09/23/2005	Baseline Inspections
	<b>12/12EXM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>			
1	U01544	SUSQUEHANNA, UNITS 1&2 INITIAL EXAM (7/25-30/05)		11/14/2005	11/17/2005	Not Applicable
1	U01544	SUSQUEHANNA, UNITS 1&2 INITIAL EXAM (7/25-30/05)		12/12/2005	12/22/2005	Not Applicable
	<b>711112B - MAINTENANCE RULE</b>		<b>1</b>			
1,2	IP 711112B	Maintenance Effectiveness		09/19/2005	09/23/2005	Baseline Inspections
	<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		11/14/2005	11/18/2005	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		11/28/2005	12/02/2005	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>71152B - PI&amp;R</b>		<b>3</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 - EP PRGM INSP</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 - 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>7111108G - 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 - 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

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

**Susquehanna**  
**Inspection / Activity Plan**  
**08/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<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 711117B	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>5</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
	<b>7112202</b>	<b>- PUB RAD SAFETY - RADWASTE</b>	<b>1</b>			
1,2	IP 7112202	Radioactive Material Processing and Transportation		11/27/2006	12/01/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/27/2006	12/01/2006	Baseline Inspections
	<b>3/19EXM</b>	<b>- OPERATOR LICENSING INITIAL EXAMS</b>	<b>3</b>			
1	U01640	SUSQUEHANNA UNIT 1 & 2 INITIAL EXAM (FY07)		02/19/2007	02/23/2007	Not Applicable
1	U01640	SUSQUEHANNA UNIT 1 & 2 INITIAL EXAM (FY07)		03/19/2007	03/23/2007	Not Applicable
	<b>7111107</b>	<b>- HEAT SINK INSP</b>	<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		03/05/2007	03/09/2007	Baseline Inspections
	<b>7111108G</b>	<b>- IN SERVICE INSPECTION</b>	<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/19/2007	03/23/2007	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
2	IP 7112101	Access Control to Radiologically Significant Areas		03/26/2007	03/30/2007	Baseline Inspections
2	IP 7112102	ALARA Planning and Controls		03/26/2007	03/30/2007	Baseline Inspections
2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/26/2007	03/30/2007	Baseline Inspections