



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 2, 2007

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

SUBJECT: ANNUAL ASSESSMENT LETTER - SUSQUEHANNA STEAM ELECTRIC  
STATION (REPORT 05000387/2007001 AND 05000388/2007001)

Dear Mr. McKinney:

On February 12, 2007, the NRC staff completed its performance review of Susquehanna Steam Electric Station (Susquehanna). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. 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.

Overall, Susquehanna 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. We also plan to conduct inspections of your activities related to license renewal and power uprate.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. 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.

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

B. McKinney

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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/**

Mel Gray, 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:

R. A. Saccone, Vice President - Nuclear Operations  
T. L. Harpster, General Manager - Plant Support  
R. D. Pagodin, General Manager - Nuclear Engineering  
R. R. Sgarro, Manager - Nuclear Regulatory Affairs  
W. E. Morrissey, Supervisor, Nuclear Regulatory Affairs  
M. H. Crowthers, Supervising Engineer, Nuclear Regulatory Affairs  
S. Cook, Manager - Quality Assurance  
L. A. Ramos, Community Relations Manager, Susquehanna  
B. A. Snapp, Esquire, Associate General Counsel, PPL Services Corporation  
Supervisor - Document Control Services  
R. W. Osborne, Allegheny Electric Cooperative, Inc.  
Director - Bureau of Radiation Protection, PA Department of Environmental Protection  
Board of Supervisors, Salem Township  
J. Johnsrud, National Energy Committee, Sierra Club  
E. Epstein, TMI-Alert (TMIA)

**Susquehanna**  
**Inspection / Activity Plan**  
**01/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>P UPRATE - POWER UPRATE FOR UNIT 2</b>		<b>3</b>			
2	IP 71004	Power Uprate		01/01/2007	03/31/2007	Other Routine
	<b>71114 - EP PRGM INSP</b>		<b>4</b>			
1,2	IP 7111402	Alert and Notification System Testing		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		02/05/2007	02/09/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		02/05/2007	02/09/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
2	IP 7112101	Access Control to Radiologically Significant Areas		03/12/2007	03/16/2007	Baseline Inspections
2	IP 7112102	ALARA Planning and Controls		03/12/2007	03/16/2007	Baseline Inspections
2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/12/2007	03/16/2007	Baseline Inspections
	<b>7111108G - U2 IN SERVICE INSPECTION</b>		<b>2</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/19/2007	03/23/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		05/07/2007	05/11/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		05/07/2007	05/11/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		05/07/2007	05/11/2007	Baseline Inspections
	<b>7111121 - CDBI (COMPONENT DESIGN BASES INSPECTION)</b>		<b>7</b>			
1	IP 7111121	Component Design Bases Inspection		05/21/2007	05/25/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/04/2007	06/08/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/18/2007	06/22/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		06/25/2007	06/29/2007	Baseline Inspections
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		06/18/2007	06/22/2007	Baseline Inspections
	<b>7111111B - L.O. REQUAL. PROG. + P/F REVIEW</b>		<b>3</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		09/17/2007	09/21/2007	Baseline Inspections
1,2	IP 7111111B	Licensed Operator Requalification Program		09/24/2007	09/28/2007	Baseline Inspections
	<b>12/10+EX - OPERATOR LICENSING INITIAL EXAMS</b>		<b>5</b>			
1	U01629	SUSQUEHANNA UNIT 1 & 2 INITIAL EXAM (FY08)		11/12/2007	11/16/2007	Not Applicable
1	U01629	SUSQUEHANNA UNIT 1 & 2 INITIAL EXAM (FY08)		12/10/2007	12/21/2007	Not Applicable
	<b>7111107 - HEAT SINK INSP</b>		<b>2</b>			
1,2	IP 7111107B	Heat Sink Performance		08/13/2007	08/17/2007	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**

01/01/2007 - 06/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>LR-71002 - LICENSE RENEWAL INSPECTION</b>		<b>6</b>			
1,2	IP 71002	License Renewal Inspection		11/07/2007	11/09/2007	License Renewal Ins
1,2	IP 71002	License Renewal Inspection		11/14/2007	11/16/2007	License Renewal Ins
1,2	IP 71002	License Renewal Inspection		11/26/2007	11/30/2007	License Renewal Ins
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/26/2007	11/30/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		11/26/2007	11/30/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/26/2007	11/30/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/26/2007	11/30/2007	Baseline Inspections
	<b>71152B - PI&amp;R</b>		<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		01/14/2008	01/18/2008	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		01/28/2008	02/01/2008	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		02/11/2008	02/15/2008	Baseline Inspections
	<b>7111108G - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		03/03/2008	03/07/2008	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/10/2008	03/14/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/10/2008	03/14/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/10/2008	03/14/2008	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/02/2008	06/06/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		06/02/2008	06/06/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/02/2008	06/06/2008	Baseline Inspections
	<b>MODS - MODS AND 50.59</b>		<b>3</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/16/2008	06/20/2008	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		06/16/2008	06/20/2008	Baseline Inspections

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