

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415

March 3, 2008

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

SUBJECT: ANNUAL ASSESSMENT LETTER - SUSQUEHANNA STEAM ELECTRIC

STATION

Dear Mr. McKinney:

On February 13, 2008, 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, 2007. 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. We also plan on conducting several non-ROP inspections related to extended power uprate activities.

The staff identified seven green inspection findings for the current 12-month assessment period with documented cross-cutting aspects in the area of human performance, and there is a cross-cutting theme regarding supervisory and management oversight of work activities (H.4(c)) associated with five of these findings. In evaluating the scope of efforts and progress in addressing the cross-cutting theme, the staff determined that the licensee appropriately identified the cross-cutting theme; recognized the impacts of the cross-cutting theme in multiple departments; and took a range of corrective actions which have been implemented and are judged, at this time, to be effective in mitigating the cross-cutting theme. Therefore, the staff has concluded that a substantive cross-cutting issue in human performance does not exist at this time.

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The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2009. We also plan to conduct inspections related to Extended Power Uprate activities. 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 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 610-337-5120 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Paul G. Krohn, 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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Institute of Nuclear Power Operations (INPO)

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Sincerely, /RA/

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

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SUNSI Review Complete:	pak	(Reviewer's Initials)
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Susquehanna Inspection / Activity Plan

01/01/2008 - 06/30/2009

Unit Number	Inspection A	A ctivity	Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
Number	71152B	- PI&R	Title	5	Otart	Liiu	Туре
1, 2	IP 71152B	- Plak	Identification and Resolution of Problems	5	01/14/2008	01/18/2008	Baseline Inspections
1, 2	IP 71152B		Identification and Resolution of Problems		01/28/2008		Baseline Inspections
1, 2	P UPRATE	- FLOW	ACCELERATED CORROSION PROGRAM INSP	1	01/20/2000	02/01/2000	baseline inspections
1, 2	IP 71004	- 1 2011	Power Uprate	•	02/04/2008	02/08/2008	Other Routine
1, 2	7112201	- DUR R	AD SAFETY - RETS	1	02/04/2000	02/00/2000	Other Routine
1, 2	IP 7112201		Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/11/2008	02/15/2008	Baseline Inspections
1, 2	7111108G		SERVICE INSPECTION	1	02/11/2000	02/13/2000	Dascille Inspections
1	IP 7111108		Inservice Inspection Activities - BWR		03/10/2008	03/14/2008	Baseline Inspections
	71121		AD SAFETY	1	00/10/2000	00/14/2000	Dascinic mopeotions
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		Baseline Inspections
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		03/10/2008		Baseline Inspections
1, 2	7111117		IODS&50.59	1	03/10/2000	03/14/2000	Dascille Inspections
1	IP 7111117		Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications	-	03/10/2008	03/14/2008	Baseline Inspections
•	71121		AD SAFETY	1	00/10/2000	00/11/2000	Bacomio mopostione
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		Baseline Inspections
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		06/02/2008		Baseline Inspections
., _	71002		SE RENEWAL INSPECTION	7	00/02/2000	00/00/2000	
1, 2	IP 71002		License Renewal Inspection		08/11/2008	08/15/2008	License Renewal Inspe
1, 2	IP 71002		License Renewal Inspection		08/25/2008		License Renewal Inspe
., _	71121	- OCC R	AD SAFETY	1			
1, 2	IP 7112101		Access Control to Radiologically Significant Areas		08/25/2008	08/29/2008	Baseline Inspections
1, 2	IP 7112102		ALARA Planning and Controls		08/25/2008		Baseline Inspections
1, 2	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		08/25/2008		Baseline Inspections
1, 2	IP 71151-O		Occupational Exposure Control Effectiveness		08/25/2008	08/29/2008	Baseline Inspections
1, 2	IP 71151-PI		RETS/ODCM Radiological Effluent		08/25/2008		Baseline Inspections
., –	ISFSI		NSPECTION - ANNUAL SAMPLE	1			
1	IP 60855		Operation Of An ISFSI		08/25/2008	08/29/2008	Other Routine
	TI 171	- TI 171		3			
1, 2	IP 2515/171		Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		09/08/2008	09/12/2008	Generic Safety Inspection
,	TRI FIRE		NIAL FIRE PROTECTION INSPECTION	3			
1, 2	IP 7111105		Fire Protection [Triennial]		10/20/2008	10/24/2008	Baseline Inspections
1, 2	IP 7111105	Т	Fire Protection [Triennial]		11/03/2008		Baseline Inspections
1, 2	IP /111105	1	rile Frotection (Thenillal)		11/03/2008	17/07/2008	Baseline inspections

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

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Report 22

Susquehanna

Inspection / Activity Plan 01/01/2008 - 06/30/2009

Unit No. of Staff **Planned Dates** Inspection Number Inspection Activity Title on Site Start End **Type** ΕP - EP EXERCISE EVALUATION 4 1, 2 IP 7111401 **Exercise Evaluation** 10/20/2008 10/24/2008 EP Baseline Inspection Emergency Action Level and Emergency Plan Changes 1, 2 IP 7111404 10/20/2008 10/24/2008 **EP Baseline Inspection** 1, 2 IP 71151-EP01 Drill/Exercise Performance 10/20/2008 10/24/2008 **Baseline Inspections** 1.2 IP 71151-EP02 **ERO Drill Participation** 10/24/2008 **Baseline Inspections** 10/20/2008 1.2 IP 71151-EP03 Alert & Notification System 10/20/2008 10/24/2008 **Baseline Inspections** 7112202 - PUB RAD SAFETY - RADWASTE 1 1.2 IP 7112202 Radioactive Material Processing and Transportation 12/01/2008 12/05/2008 **Baseline Inspections** 71121 - OCC RAD SAFETY 1 Access Control to Radiologically Significant Areas 2 IP 7112101 03/09/2009 03/13/2009 **Baseline Inspections** 2 **ALARA Planning and Controls** IP 7112102 03/09/2009 03/13/2009 **Baseline Inspections** 2 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 03/09/2009 03/13/2009 **Baseline Inspections** 71121 - OCC RAD SAFETY 1 2 IP 7112101 Access Control to Radiologically Significant Areas 03/09/2009 03/13/2009 **Baseline Inspections** 2 **ALARA Planning and Controls** IP 7112102 03/09/2009 03/13/2009 **Baseline Inspections** 2 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 03/09/2009 03/13/2009 **Baseline Inspections DNMS** - ISFSI LOADING CAMPAIGN INSPECTION 1 IP 60855 Operation Of An ISFSI 1 04/01/2009 06/30/2009 Other Routine **MODS** - PERMANENT PLANT MODIFICATIONS 3 1.2 IP 7111117B Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications 06/01/2009 06/05/2009 **Baseline Inspections** 1.2 Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications IP 7111117B 06/15/2009 06/19/2009 **Baseline Inspections EP PROGR - EP PROGRAM INSPECTION** 2 Alert and Notification System Testing 1.2 IP 7111402 06/21/2009 06/27/2009 **EP Baseline Inspection** 1.2 **Emergency Response Organization Augmentation Testing** 06/27/2009 IP 7111403 06/21/2009 **EP Baseline Inspection** Emergency Action Level and Emergency Plan Changes 1.2 IP 7111404 06/21/2009 06/27/2009 EP Baseline Inspection 1.2 Correction of Emergency Preparedness Weaknesses and Deficiencies 06/21/2009 06/27/2009 IP 7111405 **EP Baseline Inspection** 1, 2 IP 71151-EP01 Drill/Exercise Performance 06/21/2009 06/27/2009 **Baseline Inspections** 1, 2 IP 71151-EP02 **ERO Drill Participation** 06/21/2009 06/27/2009 **Baseline Inspections** 1, 2 IP 71151-EP03 Alert & Notification System 06/21/2009 06/27/2009 **Baseline Inspections** 7112203 - PUB RAD SAFETY - REMP 1 Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program 06/26/2009 Baseline Inspections 1, 2 IP 7112203 06/22/2009