

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

September 2, 2008

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

SUBJECT: MID-CYCLE PERFORMANCE ASSESSMENT LETTER -

SUSQUEHANNA STEAM ELECTRIC STATION

Dear Mr. McKinney:

On August 7, 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 July 1, 2007 through June 30, 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. We also plan to conduct an independent spent fuel storage installation inspection and inspections related to Extended Power Uprate activities.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. The inspection plan also details inspections of your independent spent fuel storage installation and 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 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 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 Division of Reactor Projects Projects Branch 4

Docket Nos. 50-387; 50-388 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
- M. Crowthers, Manager, Nuclear Regulatory Affairs
- R. Smith, General Manager, Site Preparedness and Services
- D. Brophy, Supervisor, Nuclear Regulatory Affairs
- J. Helsel, Manager, Training
- M. Rose, Manager, Quality Assurance
- J. Scopelliti, Community Relations Manager
- B. Snapp, Esq., Associate General Counsel, PPL Services Corp

Supervisor, Document Control Services

- 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

Page 1 of 2

08/28/2008 17:28:17

Report 22

Susquehanna

Inspection / Activity Plan 08/01/2008 - 12/31/2009

Unit No. of Staff **Planned Dates** Inspection Number Inspection Activity Title on Site Start End **Type** 71002 - LICENSE RENEWAL INSPECTION 7 1, 2 IP 71002 License Renewal Inspection 08/11/2008 08/15/2008 License Renewal Insper License Renewal Inspection 1, 2 IP 71002 08/25/2008 08/29/2008 License Renewal Inspen 71121 - OCC RAD SAFETY & ISFSI 1 IP 60855.1 Operation of an Independent Spent Fuel Storage Installation at Operating Plants 1, 2 08/25/2008 08/29/2008 Other Routine Access Control to Radiologically Significant Areas 1.2 IP 7112101 08/25/2008 08/29/2008 Baseline Inspections 1.2 IP 7112102 **ALARA Planning and Controls** 08/25/2008 08/29/2008 **Baseline Inspections** 1.2 Radiation Monitoring Instrumentation and Protective Equipment IP 7112103 08/25/2008 08/29/2008 **Baseline Inspections** 1.2 IP 71151-OR01 Occupational Exposure Control Effectiveness 08/25/2008 08/29/2008 **Baseline Inspections** TI 171 - TI 171 4 IP 2515/171 Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies 1.2 09/08/2008 09/12/2008 Generic Safety Inspection - TI 176 TI 176 2 Emergency Diesel Generator Tech Spec Surveillance Requirements Re: Endurance & Margin 1.2 IP 2515/176 09/29/2008 10/03/2008 Generic Safety Inspection EP - EP EXERCISE EVALUATION 5 IP 7111401 **Exercise Evaluation** 1, 2 10/20/2008 10/24/2008 EP Baseline Inspection 1, 2 IP 7111404 Emergency Action Level and Emergency Plan Changes 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** 10/20/2008 10/24/2008 **Baseline Inspections** 1, 2 IP 71151-EP03 Alert & Notification System 10/20/2008 10/24/2008 Baseline Inspections TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION 3 Fire Protection [Triennial] 1.2 IP 7111105T 10/20/2008 10/24/2008 **Baseline Inspections** 1.2 IP 7111105T Fire Protection [Triennial] 11/03/2008 11/07/2008 Baseline Inspections 71152 - REVIEW OF 3RD QUARTER SCWE SURVEY 2 IP 71152-Trends Semi-annual Trends 11/03/2008 11/07/2008 Baseline Inspections 1 7112202 - PUB RAD SAFETY - RADWASTE 1 1.2 IP 7112202 Radioactive Material Processing and Transportation 12/01/2008 12/05/2008 Baseline Inspections 7111108G - U2 INSERVICE INSPECTION 1 2 IP 7111108G Inservice Inspection Activities - BWR 04/06/2009 04/10/2009 Baseline Inspections **DNMS** - ISFSI LOADING CAMPAIGN INSPECTION 1 IP 60855 Operation Of An ISFSI 04/01/2009 06/30/2009 Other Routine 1 71121 - OCC RAD SAFETY 1 Access Control to Radiologically Significant Areas 2 IP 7112101 04/13/2009 04/17/2009 **Baseline Inspections** 2 **ALARA Planning and Controls** IP 7112102 04/13/2009 04/17/2009 Baseline Inspections Radiation Monitoring Instrumentation and Protective Equipment 2 IP 7112103 04/13/2009 04/17/2009 Baseline Inspections

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Page 2 of 2

08/28/2008 17:28:17

Report 22

Susquehanna

Inspection / Activity Plan 08/01/2008 - 12/31/2009

Unit			No. of Staff	Planned Dates		Inspection
Number	Inspection Activity	Title	on Site	Start	End	Туре
MODS - PERMANENT PLANT MODIFICATIONS 3						
1, 2	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		06/01/2009	06/05/2009	Baseline Inspections
1, 2	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		06/15/2009	06/19/2009	Baseline Inspections
	EP PROGR - EP PF	ROGRAM INSPECTION	2			
1, 2	IP 7111402	Alert and Notification System Testing		06/21/2009	06/27/2009	EP Baseline Inspection
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		06/21/2009	06/27/2009	EP Baseline Inspection
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/21/2009	06/27/2009	EP Baseline Inspection
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/21/2009	06/27/2009	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 I	RAD SAFETY - REMP	1			
1, 2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr	ogram	06/22/2009	06/26/2009	Baseline Inspections
	11/02EXM - OPER	RATOR LICENSING INITIAL EXAMS	4			
1	U01696	FY09 - SUSQUEHANNA UNITS 1&2 INITIAL OPERATOR EXAM		09/28/2009	10/02/2009	Not Applicable
1	U01696	FY09 - SUSQUEHANNA UNITS 1&2 INITIAL OPERATOR EXAM		11/02/2009	11/06/2009	Not Applicable
	7111111B - BIENI	NIAL REQUAL INSP WITH P/F RESULTS	3			
1, 2	IP 7111111B	Licensed Operator Requalification Program		10/14/2009	10/18/2009	Baseline Inspections
	71121 - OCC	RAD SAFETY	1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		08/10/2009	08/14/2009	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		08/10/2009	08/14/2009	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/10/2009	08/14/2009	Baseline Inspections
	7111107T - HEAT	SINK INSP	1			
1, 2	IP 7111107T	Heat Sink Performance		09/21/2009	09/25/2009	Baseline Inspections
	71121 - OCC	RAD SAFETY	1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		11/30/2009	12/04/2009	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		11/30/2009	12/04/2009	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/30/2009	12/04/2009	Baseline Inspections
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		11/30/2009	12/04/2009	Baseline Inspections
1, 2	IP 71151-PR01	RETS/ODCM Radiological Effluent		11/30/2009	12/04/2009	Baseline Inspections