



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

August 31, 2007

Mr. Britt T. McKinney
Senior Vice President, and
Chief Nuclear Officer
PPL Susquehanna, 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 15, 2007, the NRC staff completed its performance review of Susquehanna Steam Electric Station for the first half of the calendar year 2007 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 security information. A separate letter designated and marked as "Official Use Only - Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter of 2007 at the Susquehanna Steam Electric Station Units 1 and 2 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 Extended Power Uprate and License Renewal inspections during the remainder of 2007 and into 2008.

Additionally, the staff identified eight inspection findings during the assessment period with documented cross-cutting aspects in the area of human performance, and there is a cross-cutting theme associated with four of these findings. The cross-cutting theme involves supervisory and management oversight of work activities, H.4(c).¹ In evaluating your scope of efforts and progress in addressing the cross-cutting theme, the staff determined that you have appropriately identified the theme and scheduled or taken a range of corrective actions to address the cross-cutting theme. Based on the recent time-frame associated with some of these performance issues, corrective actions have not reasonably been in place long enough to determine the effectiveness of those corrective actions in addressing the cross-cutting theme.

¹ This is a descriptor which correlates to this cross-cutting aspect in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

Therefore, the staff has concluded that a substantive cross-cutting issue in human performance is not warranted at this time.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 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 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).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the changes 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:

C. J. Gannon, Vice President - Nuclear Operations
T. L. Harpster, General Manager - Site Development and Design
R. D. Pagodin, General Manager - Nuclear Engineering
R. Paley, General Manager - Plant Support
R. R. Sgarro, Manager - Regulatory Affairs
M. H. Crowthers, Supervising Engineer, Nuclear Regulatory Affairs
M. Rose, Manager - Quality Assurance (Acting)
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
E. Epstein, TMI-Alert
Institute of Nuclear Power Operations (INPO)

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Enclosure: Susquehanna Inspection/ Activity Plan

Distribution w/encl: via email
S. Collins, RA
M. Dapas, DRA
D. Lew, DRP
J. Clifford, DRP
P. Krohn, DRP
R. Fuhrmeister, DRP
T. Setzer, DRP
F. Jaxheimer, DRP - SRI Susquehanna
P. Finney, DRP - RI Susquehanna
S. Farrell, DRP - OA Susquehanna
R. Guzman, PM, NRR

T. Colburn, PM (backup), NRR
D. Screnci, PAO
N. Sheehan, PAO
DRS Director
DRS Deputy Director
DRS Branch Chiefs (6)
RidsNrrDirslpab@nrs.gov
ROPreports@nrc.gov
JWT1@nrc.gov
Region I Docket Room (with concurrences)

SUNSI Review Complete: PGK (Reviewer's Initials)

DOCUMENT NAME: S:\ROP 8 Mid Cycle Review\Letters for Mid Cycle\Branch 4 Mid-cycle letters\SUS 2007 Mid-Cycle Letter-R3.wpd

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NAME	TSetzer/tcs	PKrohn/	
DATE	08/ 29 /07	08/ 30 /07	

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Susquehanna
Inspection / Activity Plan
07/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	711111B - L.O. REQUAL. PROG. + P/F REVIEW		3			
1,2	IP 711111B	Licensed Operator Requalification Program		09/17/2007	09/21/2007	Baseline Inspections
1,2	IP 711111B	Licensed Operator Requalification Program		09/24/2007	09/28/2007	Baseline Inspections
	12/10+EX - INITIAL OPERATOR LICENSING EXAMS		5			
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
	7111107 - HEAT SINK INSP		1			
1,2	IP 7111107B	Heat Sink Performance		08/13/2007	08/17/2007	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/17/2007	10/19/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/17/2007	10/19/2007	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
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
	P UPRATE - REPLACEMENT STEAM DRYER NDE INSPECTION		1			
1	IP 71004	Power Uprate		12/07/2007	12/31/2007	Other Routine
	71152B - PI&R		4			
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
	P UPRATE - FLOW ACCELERATED CORROSION PROGRAM INSP		1			
1	IP 71004	Power Uprate		02/04/2008	02/08/2008	Other Routine
	7112201 - PUB RAD SAFETY - RETS		1			
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/11/2008	02/15/2008	Baseline Inspections
	7111108G - U1 INSERVICE INSPECTION		1			
1	IP 7111108G	Inservice Inspection Activities - BWR		03/03/2008	03/07/2008	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
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
	71002 - LICENSE RENEWAL		7			
1,2	IP 71002	License Renewal Inspection		06/02/2008	06/06/2008	License Renewal Insp
1,2	IP 71002	License Renewal Inspection		06/16/2008	06/20/2008	License Renewal Insp

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

Susquehanna
Inspection / Activity Plan
07/01/2007 - 12/31/2008

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	71121 - OCC RAD SAFETY		1			
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
	MODS - MODS AND 50.59		3			
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
	71121 - OCC RAD SAFETY		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/01/2008	09/05/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/01/2008	09/05/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/01/2008	09/05/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/01/2008	09/05/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/01/2008	09/05/2008	Baseline Inspections
	TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION		4			
1,2	IP 7111105T	Fire Protection [Triennial]		10/20/2008	10/24/2008	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		11/03/2008	11/07/2008	Baseline Inspections
	71111.12 - MAINTENANCE RULE		1			
1,2	IP 711112B	Maintenance Effectiveness		10/20/2008	10/24/2008	Baseline Inspections
	EP - EP EXERCISE EVALUATION		4			
1,2	IP 7111401	Exercise Evaluation		10/20/2008	10/24/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		10/20/2008	10/24/2008	Baseline Inspections
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
	7112202 - PUB RAD SAFETY - RADWASTE		1			
1,2	IP 7112202	Radioactive Material Processing and Transportation		12/01/2008	12/05/2008	Baseline Inspections