



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

August 27, 2003

Mr. Bryce L. Shriver  
Senior Vice President and  
Chief Nuclear Officer  
PPL Susquehanna, LLC  
769 Salem Blvd., NUCSB3  
Berwick, PA 18603-0467

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
SUSQUEHANNA STEAM ELECTRIC STATION UNITS 1 and 2**

Dear Mr. Shriver:

On July 31, 2003, the NRC staff completed its mid-cycle plant performance review of the Susquehanna Steam Electric Station Units 1 and 2. The mid-cycle review for Susquehanna involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2003 assessment cycle. The process included a review of 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 and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Plant performance 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 only baseline inspections at your facility through September 30, 2004.

In our annual assessment letter dated March 3, 2003, we advised you of a substantive cross-cutting issue in the area of human performance because of multiple findings with a common performance deficiency of operators not implementing procedures. Our mid-cycle review has concluded that you have made progress in addressing this cross-cutting issue, but the issue of operators not implementing procedures remains. Improvement in procedure implementation by non-licensed operators and licensed reactor operators has been achieved, however, additional examples of inadequate procedure implementation by senior reactor operators have occurred during the past six months. We will continue to focus on your progress to address this cross-cutting issue during our normal baseline inspection program.

Additionally, on January 13, 2003 the staff issued a Severity Level III Notice of Violation in accordance with the enforcement policy for a problem that occurred on July 26, 2002, associated with an incorrect gas backfill of a Dry Shielded Canister that was loaded with fuel bundles. Our annual assessment letter dated March 3, 2003, already discussed the staff's acceptance of your corrective actions in this matter.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. Our inspection plan also includes an inspection of your independent spent fuel storage installation in September 2004. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last six months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Dr. Mohamed Shanbaky at 610-337-5209 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

A. Randolph Blough, Director  
Division of Reactor Projects

Docket Nos. 50-387; 50-388  
License Nos. NPF-14, NPF-22

Enclosure: Susquehanna Inspection/Activity Plan

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OFFICE	RI /DRP	RI /DRP	RI /DRP		
NAME	SHansell /DF for	MShanbaky/MS	ABl ough/AB		
DATE	08/26/03	08/26/03	08/26/03	08/ /03	08/ /03

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**Susquehanna**  
**Inspection / Activity Plan**  
**06/29/2003 - 10/02/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
<b>8/11 EXM - OPERATOR LICENSING INITIAL EXAMS</b>			<b>3</b>			
1	U01501	SUSQUEHANNA 1&2 INITIAL EXAM (7/28/03)		07/07/2003	07/11/2003	Not Applicable
1	U01501	SUSQUEHANNA 1&2 INITIAL EXAM (7/28/03)		08/11/2003	08/15/2003	Not Applicable
<b>71122.02 - PUB RAD SAFETY - RADWASTE</b>			<b>1</b>			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		08/04/2003	08/08/2003	Baseline Inspections
<b>71121.01 - OCC RAD SAFETY</b>			<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/29/2003	10/03/2003	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		09/29/2003	10/03/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/29/2003	10/03/2003	Baseline Inspections
<b>711111B - L O REQUALIFICATION INSPECTION</b>			<b>2</b>			
1, 2	IP 711111B	Licensed Operator Requalification		10/19/2003	10/24/2003	Baseline Inspections
<b>711112B - MAINTENANCE RULE</b>			<b>1</b>			
1, 2	IP 711112B	Maintenance Effectiveness		12/15/2003	12/19/2003	Baseline Inspections
<b>71152B - PROBLEM IDENTIFICATION AND RESOLUTION</b>			<b>6</b>			
1, 2	IP 71152B	Identification and Resolution of Problems		01/12/2004	01/16/2004	Baseline Inspections
1, 2	IP 71152B	Identification and Resolution of Problems		01/26/2004	01/30/2004	Baseline Inspections
<b>71114 - EP PROGRAM INSP &amp; PI VERIF.</b>			<b>1</b>			
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		02/02/2004	02/02/2004	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		02/02/2004	02/02/2004	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		02/02/2004	02/02/2004	Baseline Inspections
1, 2	IP 7111402	Alert and Notification System Testing		02/02/2004	02/06/2004	Baseline Inspections
<b>71121 - OCC RAD SAFETY</b>			<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		02/09/2004	02/13/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		02/09/2004	02/13/2004	Baseline Inspections
<b>7111108G - INSERVICE INSPECTION-UNIT 1</b>			<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		03/08/2004	03/12/2004	Baseline Inspections
<b>71121 - OCC RAD SAFETY</b>			<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/15/2004	03/19/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		03/15/2004	03/19/2004	Baseline Inspections
<b>7112103 - OCC RAD SAFETY - INSTRUMENTATION</b>			<b>1</b>			
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/14/2004	06/18/2004	Baseline Inspections
<b>711117B - PERMANENT PLANT MODS</b>			<b>4</b>			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/21/2004	06/25/2004	Baseline Inspections
1, 2	IP 711117B	Permanent Plant Modifications		06/21/2004	06/25/2004	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**  
**06/29/2003 - 10/02/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
<b>8/9+EXM - OPERATOR LICENSING INITIAL EXAMS</b>			<b>3</b>			
1	U01523	SUSQUEHANNA UNITS 1&2 INITIAL EXAM (7/26-30/04)		07/12/2004	07/16/2004	Not Applicable
1	U01523	SUSQUEHANNA UNITS 1&2 INITIAL EXAM (7/26-30/04)		08/09/2004	08/19/2004	Not Applicable
<b>71121 - OCC RAD SAFETY</b>			<b>1</b>			
1, 2	IP 7112102	ALARA Planning and Controls		08/02/2004	08/03/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		08/02/2004	08/03/2004	Baseline Inspections
<b>ISFSI - ISFSI INSPECTION</b>			<b>1</b>			
1, 2	IP 60855	Operation Of An ISFSI		09/13/2004	09/17/2004	Other Routine
1, 2	IP 60856	Review of 10 CFR 72.212(b) Evaluations		09/13/2004	09/17/2004	Other Routine
1, 2	IP 60857	Review of 10 CFR 72.48 Evaluations		09/13/2004	09/17/2004	Other Routine