



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

September 1, 2009

Mr. Peter P. Sena, III
Site Vice President
FirstEnergy Nuclear Operating Company
Beaver Valley Power Station
Mail Stop A-BV-SEB1
P. O. Box 4
Shippingport, PA 15077-0004

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
BEAVER VALLEY UNITS 1 AND 2**

Dear Mr. Sena:

On August 11, 2009, the NRC staff completed its performance review of the Beaver Valley Units 1 and 2. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008 through June 30, 2009. 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 2009 at Beaver Valley 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.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2010. 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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures as part of our biennial review of the ROP. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5200 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Ronald R. Bellamy, Ph.D., Chief
Division of Reactor Projects
Projects Branch 6

Docket Nos.: 50-334, 50-412
License Nos: DPR-66, NPF-73

Enclosure: Beaver Valley Units 1 and 2 Inspection/ Activity Plan

cc w/encl:

J. Hagan, President and Chief Nuclear Officer
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Director, Utilities Department, Public Utilities Commission, State of Ohio
R. Curtis, Director, Radiological Toxics and Indoor Air Program, State of West Virginia
J. Lewis, Commissioner, Division of Labor, State of West Virginia
W. Hill, Beaver County Emergency Management Agency
J. Johnsrud, National Energy Committee, Sierra Club

Beaver Valley
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
71122.03 - PUB RAD SAFETY - REMP					1
1,2	07/06/2009	07/10/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1,2	07/06/2009	07/10/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION					3
1,2	07/20/2009	07/24/2009	IP 7111105T	Fire Protection [Triennial]	
1,2	08/03/2009	08/07/2009	IP 7111105T	Fire Protection [Triennial]	
71152B - PI&R BIENNIAL TEAM					4
1,2	08/17/2009	08/21/2009	IP 71152B	Identification and Resolution of Problems	
1,2	08/31/2009	09/03/2009	IP 71152B	Identification and Resolution of Problems	
EP PROG - EP PROGRAM INSPECTION					2
1,2	08/31/2009	09/04/2009	IP 7111402	Alert and Notification System Testing	
1,2	08/31/2009	09/04/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	08/31/2009	09/04/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	08/31/2009	09/04/2009	IP 71151-EP01	Drill/Exercise Performance	
1,2	08/31/2009	09/04/2009	IP 71151-EP02	ERO Drill Participation	
1,2	08/31/2009	09/04/2009	IP 71151-EP03	Alert & Notification System	
1,2	08/31/2009	12/31/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
7111108P - U2 INSERVICE INSPECTION					2
2	10/19/2009	10/23/2009	IP 7111108P	Inservice Inspection Activities - PWR	
TI-172 - U2 TI-172 RCS DISSIMILAR METAL WELDS					1
2	10/19/2009	10/23/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
71121 - OCC RAD SAFETY					2
2	10/26/2009	10/30/2009	IP 7112102	ALARA Planning and Controls	
71121 - OCC RAD SAFETY					1
1,2	03/01/2010	03/05/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/01/2010	03/05/2010	IP 7112102-7112102R	ALARA - Required	
7111107T - TRIENNIAL HEAT SINK					2
1,2	03/22/2010	03/26/2010	IP 7111107T	Heat Sink Performance	
08/23EXM - U1 INITIAL OPERATOR LICENSING EXAM					4
1	07/12/2010	07/16/2010	U01697	FY09 - BEAVER VALLEY 1 INITIAL OPERATOR EXAM	
1	08/16/2010	08/20/2010	U01697	FY09 - BEAVER VALLEY 1 INITIAL OPERATOR EXAM	
EP EX - EP EXERCISE EVALUATION					4
1,2	04/19/2010	04/23/2010	IP 7111401	Exercise Evaluation	
1,2	04/19/2010	04/23/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	04/19/2010	04/23/2010	IP 71151	Performance Indicator Verification	

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

Beaver Valley
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			MODS - PERMANENT PLANT MODIFICATIONS		5
1,2	06/07/2010	06/11/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	06/21/2010	06/25/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			7111111B - REQUAL INSP (BV 1) WITH P/F RESULTS		3
1,2	08/09/2010	08/13/2010	IP 7111111B	Licensed Operator Requalification Program	
			7112202 - PUB RAD SAFETY - RADWASTE		1
1,2	06/21/2010	06/25/2010	IP 7112202	Radioactive Material Processing and Transportation	
			7112103 - OCC RAD SAFETY - INSTRUMENTS		1
1,2	07/26/2010	07/30/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			1/10EXAM - U2 OPERATOR LICENSING INITIAL EXAMS		2
2	12/13/2010	12/17/2010	U01768	FY11 - BEAVER VALLEY UNIT 2 INITIAL OPERATOR LICENSING EXAM	
			7111108P - U1 INSERVICE INSPECTION		1
1	10/11/2010	10/22/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			TI-172 - U1 TI 2515/172 DISSIMILAR METAL WELDS		1
1	10/11/2010	10/22/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			71121 - OCC RAD SAFETY		1
1	10/18/2010	10/22/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	10/18/2010	10/22/2010	IP 7112102-7112102R	ALARA - Required	
1,2	10/18/2010	10/22/2010	IP 71151	Performance Indicator Verification	

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