



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

March 3, 2008

Mr. Peter P. Sena, III  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Beaver Valley Power Station  
Post Office Box 4  
Shippingport, Pennsylvania 15077

**SUBJECT: ANNUAL ASSESSMENT LETTER – BEAVER VALLEY POWER STATION  
UNITS 1 AND 2 (REPORT 05000334/2008001 AND 05000412/2008001)**

Dear Mr. Sena:

On February 12, 2008, the NRC staff completed its performance review of Beaver Valley Power Station, Units 1 and 2. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period 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.

Beaver Valley Unit 1 and Unit 2 plant performance for the last two quarters of 2007 was within the Licensee Response column of the NRC Action Matrix based on all inspection findings being classified as very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). No substantive cross cutting issues were identified in any of the three cross cutting areas.

Plant performance for the first two quarters of 2007 was within the Regulatory Response column of the NRC Action Matrix, based on one inspection finding being classified as having low to moderate safety significance (White) in the Emergency Preparedness (EP) Cornerstone due to a dose assessment procedure inadequacy that could have resulted in untimely protective action recommendations. The NRC completed a supplemental inspection in accordance with Inspection Procedure 95001 in June 2007 to review actions taken to address the White EP finding and concluded that FENOC appropriately identified root causes and adequately implemented corrective actions for this issue. As a result, plant performance was restored to the Licensee Response column of the NRC Action Matrix.

Based on current plant performance, we plan to conduct reactor oversight process (ROP) baseline inspections at Beaver Valley. In addition, we will also conduct inspections related to the completion of the Extended Power Uprate for Unit 2, and inspections related to the Beaver Valley license renewal review.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2009. 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 and Practices," 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 Website 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 change as soon as possible. Please contact Dr. Ronald Bellamy at 610-337-5200 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

David C. Lew, Director  
Division of Reactor Projects

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

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

cc w/encl:

J. Hagan, President and Chief Nuclear Officer  
J. Lash, Senior Vice President of Operations  
D. Pace, Senior Vice President, Fleet Engineering  
J. Rinckel, Vice President, Fleet Oversight  
R. Anderson, Vice President, Nuclear Support, FirstEnergy Nuclear Operating Company  
D. Jenkins, Attorney, FirstEnergy Corporation  
G. Halnon, Director, Fleet Regulatory Affairs, FirstEnergy Nuclear Operating Company  
Manager, Fleet Licensing, FirstEnergy Nuclear Operating Company  
K. Ostrowski, Director, Site Operations  
E. Hubley, Director, Maintenance  
M. Manoleras, Director, Engineering  
L. Freeland, Director, Site Performance Improvement  
C. Keller, Manager, Regulatory Compliance  
M. Clancy, Mayor, Shippingport, PA

D. Allard, Director, PADEP

C. O'Claire, State Liaison to the NRC, State of Ohio

Z. Clayton, EPA-DERR, State of Ohio

Director, Utilities Department, Public Utilities Commission, State of Ohio

D. Hill, Chief, Radiological Health 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

J. Powers, Director, PA Office of Homeland Security

R. French, Director, PA Emergency Management Agency

Institute of Nuclear Power Operations (INPO)

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Sincerely,

**/RA/**

David C. Lew, Director  
Division of Reactor Projects

Distribution w/enc: via email

- S. Collins, RA
- M. Dapas, DRA
- D. Lew, DRP
- J. Clifford, DRP
- R. Bellamy, DRP
- S. Barber, DRP
- A. Rosebrook, DRP
- D. Werkheiser, DRP, Sr Resident Inspector
- D. Spindler, DRP, Resident Inspector
- P. Garrett, DRP, Resident OA

- R. Laufer, RI OEDO
- M. Morgan, PM, NRR
- DRS Director
- DRS Deputy Director
- DRS Branch Chiefs
- Region I Docket Room (with concurrences)
- [ROPreports@nrc.gov](mailto:ROPreports@nrc.gov)
- [RidsNrrDirslpab@nrc.gov](mailto:RidsNrrDirslpab@nrc.gov)
- [JWT1@nrc.gov](mailto:JWT1@nrc.gov)

**SUNSI REVIEW COMPLETE: AAR (Reviewer's Initials)**

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OFFICE	RI/DRP		RI/DRP		RI/DRP	
NAME	ARosebrook/AAR		RBellamy/RRB		DLew/DCL	
DATE	02/25/08		02/27/08		02/29/08	

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Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>7112101 - OCC RAD SAFETY - ACCESS</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/25/2008	02/29/2008	Baseline Inspections
	<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		04/21/2008	04/25/2008	Baseline Inspections
	<b>TI-172 - U2 TI-172 RCS DISSIMILIAR METAL WELDS</b>		<b>2</b>			
2	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds		04/21/2008	04/25/2008	Generic Safety Inspecti
	<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		05/05/2008	05/09/2008	Baseline Inspections
	<b>7112102 - OCC RAD SAFETY - ALARA</b>		<b>1</b>			
1,2	IP 7112102	ALARA Planning and Controls		04/28/2008	05/02/2008	Baseline Inspections
	<b>SCOPING - BV LR SCOPING AUDIT</b>		<b>1</b>			
1	MD6594	BEAVER VALLEY 1 - Safety Review of BVPS Unit 1 License Renewal Application		05/12/2008	05/16/2008	Not Applicable
	<b>7111111B - L.O. REQUAL.PROG.(FOCUS U1)+P/F RVW</b>		<b>3</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		08/04/2008	08/08/2008	Baseline Inspections
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
1,2	IP 7112202	Radioactive Material Processing and Transportation		06/16/2008	06/20/2008	Baseline Inspections
	<b>71002 - LICENSE RENEWAL</b>		<b>6</b>			
1,2	IP 71002	License Renewal Inspection		06/23/2008	06/27/2008	License Renewal Inspe
1,2	IP 71002	License Renewal Inspection		07/14/2008	07/18/2008	License Renewal Inspe
	<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>			
1,2	IP 7111401	Exercise Evaluation		06/23/2008	06/27/2008	EP Baseline Inspection
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/23/2008	06/27/2008	EP Baseline Inspection
1,2	IP 71151-EP01	Drill/Exercise Performance		06/23/2008	06/27/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		06/23/2008	06/27/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		06/23/2008	06/27/2008	Baseline Inspections
	<b>12/8 EXM - U2 INITIAL OPERATOR LICENSING EXAMS</b>		<b>4</b>			
2	U01628	BEAVER VALLEY UNIT 2 INITIAL EXAM (FY09)		11/10/2008	11/14/2008	Not Applicable
2	U01628	BEAVER VALLEY UNIT 2 INITIAL EXAM (FY09)		12/08/2008	12/12/2008	Not Applicable
2	U01628	BEAVER VALLEY UNIT 2 INITIAL EXAM (FY09)		12/15/2008	12/19/2008	Not Applicable
	<b>7112103 - OCC RAD SAFETY - INSTRUMENTS</b>		<b>1</b>			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/25/2008	08/29/2008	Baseline Inspections
	<b>7111121 - CDBI</b>		<b>7</b>			
1,2	IP 7111121	Component Design Bases Inspection		09/15/2008	09/19/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		09/29/2008	10/03/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		10/06/2008	10/10/2008	Baseline Inspections

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

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>TI 171 - TI 171</b>		<b>3</b>			
1, 2	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		10/20/2008	10/24/2008	Generic Safety Inspecti
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		02/09/2009	02/13/2009	Baseline Inspections
1, 2	IP 7112102-7112102R	ALARA - Required		02/09/2009	02/13/2009	Baseline Inspections
	<b>7111108P - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/13/2009	04/17/2009	Baseline Inspections
	<b>TI-172 - TI-172 RCS DISSIMILIAR METAL WELDS</b>		<b>1</b>			
1	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds		04/13/2009	04/17/2009	Generic Safety Inspecti
	<b>7111108P - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/27/2009	05/01/2009	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/27/2009	05/01/2009	Baseline Inspections
1	IP 7112102-7112102R	ALARA - Required		04/27/2009	05/01/2009	Baseline Inspections
	<b>71122.01 - PUB RAD SAFETY - RETS</b>		<b>1</b>			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		05/11/2009	05/15/2009	Baseline Inspections
	<b>EP PROG - EP PROGRAM INSPECTION</b>		<b>2</b>			
1, 2	IP 7111402	Alert and Notification System Testing		05/17/2009	05/23/2009	EP Baseline Inspection
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		05/17/2009	05/23/2009	EP Baseline Inspection
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		05/17/2009	05/23/2009	EP Baseline Inspection
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		05/17/2009	05/23/2009	EP Baseline Inspection
1, 2	IP 71151-EP01	Drill/Exercise Performance		05/17/2009	05/23/2009	Baseline Inspections
1, 2	IP 71151-EP02	ERO Drill Participation		05/17/2009	05/23/2009	Baseline Inspections
1, 2	IP 71151-EP03	Alert & Notification System		05/17/2009	05/23/2009	Baseline Inspections