

July 15, 2002

Mr. M. Bezilla
Vice President
FirstEnergy Nuclear Operating Company
Beaver Valley Power Station
Post Office Box 4
Shippingport, Pennsylvania 15077

SUBJECT: BEAVER VALLEY POWER STATION - NRC EVALUATED EMERGENCY
PREPAREDNESS EXERCISE - INSPECTION REPORT NOS.
50-334/02-010 AND 50-412/02-010

Dear Mr. Mr. Bezilla:

The enclosed report documents an inspection at the Beaver Valley Power Station, which evaluated the performance of your emergency response organization during the June 18, 2002, full-participation exercise, the post-exercise critique, and the emergency preparedness performance indicators as specified in the reactor oversight program. The inspectors discussed the findings of this inspection with yourself and other members of your staff at the exit meeting on June 20, 2002.

This inspection was an examination of activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of a selected examination of procedures and representative records, observations of activities, and interviews with personnel.

Based on the results of this inspection, no findings of significance were identified.

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Mr. M. Bezilla

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Should you have any questions regarding this report, please contact me at (610) 337-5183.

Sincerely,

/RA/

Richard J. Conte, Chief
Operational Safety Branch
Division of Reactor Safety

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

Enclosure: Inspection Report Nos. 50-334/02-010 and 50-412/02-010

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Mr. M. Bezilla

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U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos: 50-334
50-412

License Nos: DPR-66
NPF-73

Report Nos: 50-334/02-010
50-412/02-010

Licensee: FirstEnergy Nuclear Operating Company

Facility: Beaver Valley Power Station

Dates: June 18 - 20, 2002

Inspectors: D. Silk, Senior Emergency Preparedness Inspector, DRS (Lead)
P. Kaufman, Senior Reactor Inspector, DRS
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J. Herrera, Project Engineer, DRP
R. Taylor, Observer, NRR

Approved by: Richard J. Conte, Chief
Operational Safety Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

IR 05000334/02-010 and 05000412/02-010; FENOC; 06/18-20/2002; Beaver Valley Power Station; Emergency Preparedness Exercise and Performance Indicators.

This inspection was conducted by region based inspectors and the resident inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 3, dated July 2000.

Cornerstone: Emergency Preparedness

- No findings of significance were identified.

Report Details

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

1EP1 Exercise Evaluation

a. Inspection Scope

During the June 18, 2002, exercise, the inspectors reviewed and assessed:

- Exercise objectives and scenario to determine if the Beaver Valley exercise would test the adequacy of timing and content of implementing procedures and methods, test emergency equipment and communications network, test portions of the public notification system, and ensure that emergency response organization (ERO) personnel are familiar with their duties as required by 10 CFR 50 Appendix E.IV.F.2.
- The licensee's biennial full-participation exercise performance by primarily focusing on the implementation of the risk-significant planning standards (RSPS) in 10 CFR 50.47 (b) (4), (5), (9) & (10) which are emergency classification, offsite notification, radiological assessment, and protective action recommendations (PARs), respectively.
- Other performance areas besides the RSPS, such as, the ERO's recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation activities, utilization of repair teams and field monitoring teams, interface with offsite agencies, and the overall implementation of the emergency plan and implementing procedures.
- The overall adequacy of the licensee's emergency response facilities and their implementation of NUREG-0696, Functional Criteria for Emergency Response Facilities, and emergency plan commitments. The facilities assessed were the simulator control room (SCR), technical support center (TSC), the operations support center (OSC), emergency operations facility (EOF), and the joint public information center (JPIC).
- Past performance issues from NRC inspection reports, condition reports (CRs) and licensee drill reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10CFR50.47(b)(14) and Appendix E.IV.F.2.g.
- The post-exercise critique to evaluate the licensee's self-assessment of their ERO performance during the exercise and to ensure compliance with 10CFR50 Appendix E.IV.F.2.g.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Prior to this exercise evaluation, an in-office inspection was conducted that reviewed recent changes to emergency preparedness plan (EPP) or implementing procedures (IP) (listed below) and the brief licensee explanations that accompanied the changes. A thorough review was conducted of documents related to the risk significant planning standards (RSPS), such as classifications, notifications and protective action recommendations. A cursory review was conducted for non-RSPS documents. Some of these changes were discussed with licensee personnel during the week of the exercise. With that data, these changes were reviewed against 10 CFR 50.54(q) to ensure that the changes do not decrease the effectiveness of the plan, and that the changes as made continue to meet the standards of 10 CFR 50.47(b) and the requirements of Appendix E. These changes are subject to future inspections to ensure that the EPP and the IPs continue to meet NRC regulations.

EPP-4, Emergency Conditions, Rev 14

EPP-6, Emergency Measures, Rev 16

EPP-7, Emergency Facilities and Equipment, Rev 17

EPP-8, Maintaining Preparedness, Rev 17

EPP Appendix F, Warning Sirens, Rev 14

EPP Appendix G, References, Rev 7

EPP/I-1a & 1-b, Recognition and Classification of Emergency Conditions, Rev 1

EPP/I-2, Unusual Event, Rev 17

EPP/IP 1.7, Emergency Response Organization (ERO) Teams, Rev 9

EPP/IP 4.1, Offsite Protective Actions, Rev 15

EPP/IP 7.2, Administration of Emergency Preparedness Plan Drill and Exercises, Rev 9

b. Findings

No findings of significance were identified.

2. OTHER ACTIVITIES (OA)

4OA1 Performance Indicator (PI) Verification

a. Inspection Scope

The inspectors reviewed the licensee's process for identifying and collecting data that is utilized to determine the values for the three EP PIs:

- Drill and Exercise Performance
- ERO Drill Participation, and

- Alert and Notification System Reliability.

Since the EP PIs were last reviewed during an inspection in August 2001, this review assessed data and records from that time which included results from the third and fourth quarters of 2001 and the first quarter of 2002. Records included documents generated during drills or exercises, attendance records, and siren testing documentation. The review was conducted on site in accordance with NRC Inspection Procedure 71151. The acceptance criteria are 10 CFR 50.9 and NEI 99-02, Revision 2, Regulation Assessment Performance Indicator Guideline.

b. Findings

No findings of significance were identified.

40A2 Identification and Resolution of Problems

a. Inspection Scope

The inspectors reviewed the last NRC exercise evaluation report, recent licensee drill findings, and drill and exercise-related CRs to determine if significant performance trends exist and to determine the effectiveness of licensee corrective actions based upon ERO performance during this exercise. The inspectors verified that issues identified during this exercise were entered into the licensee's corrective action program. The CR numbers and topics are listed in the back of this report.

b. Findings

No findings of significance were identified.

40A6 Meetings, including Exit

The inspectors presented the inspection results to Mr. M. Bezilla, and other members of the licensee's staff at the conclusion of the inspection on June 20, 2002. The licensee had no objections to the NRC findings or observations. No proprietary information was provided to the inspectors during this inspection.

KEY POINTS OF CONTACT

Licensee

C. Bibbee, Emergency Planner
D. Murray, Shift Manager
W. Skorupan, Emergency Planner
H. Szklinski, Emergency Planner
S. Viccine, Emergency Preparedness Manager

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

Discussed

None

LIST OF DOCUMENTS REVIEWED

EP-16, NRC EPP Performance Indicator Instructions, Rev 4
CR 971737, EPP drill initial notification times exceeded
CR 991967, EPP simulator drill inadequate notifications
CR 01-1975, Required 15 minute initial notification for 4/6 unusual event not met
CR 01-2032, Required one hour 50.72 (UE) NRC Notification
CR 02-03477, Mini drill offsite agency notifications exceeded 15 minutes (from simulator)
CR 02-04872, Evaluated exercise (simulator) control room initial notification exceeded 15 min

CONDITION REPORTS GENERATED FROM THE EXERCISE

02-03245	Doors at ERF need repaired
02-04839	Trouble with wireless headsets
02-04841	Respirator list drops personnel about two weeks in advance
02-04842	ERDS dropped by NRC
02-04846	New headset did not work well
02-04849	Containment pressure information relayed to JPIC was incorrect
02-04850	Need more bulletin boards
02-04853	Accountability form not delivered to CAS in a timely manner
02-04854	"This is a drill" did not appear on internal JPIC forms
02-04855	Media contact reps need to direct media to news announcement location
02-04856	Better process for PEMA communications van set up
02-04857	OSC slow to established OPS circuit
02-04858	Previously identified page party deficiencies not corrected
02-04859	Radio static for media monitoring
02-04861	PowerPoint Met data did not function properly
02-04862	Alternate phone number provided to FMTs was not accessible
02-04863	Nuc Com Manager needs to provide information over tech advisor circuit
02-04864	Page announcements from simulator had low volume in TSC
02-04867	Internet connections for offsite agencies dropped off a few times
02-04869	Release pathway board differs from sketches
02-04870	Some rad monitors were not updated consistently on tracking sheets
02-04871	Need copier and two new maps and direction for posting news releases
02-04872	Equipment problem with offsite notification system
02-04876	Increased radiation levels from release never noted onsite
02-04877	An OSC RP briefing did not communicate that a release was in progress
02-04878	3-way conference line lost three times
02-04882	Incomplete record keeping regarding NRC notification
02-04904	Cell phones issued without hands free adapter
02-04905	An Ohio Supplemental Action Form was posted on the bulletin board
02-04910	No documentation of decisions regarding core damage assessment
02-04913	Discrepancies between ERF ventilation operating procedure and manual
02-04915	Chemist accountability and exposure issue
02-04919	Media monitoring reporting chain needs updated in 9.4
02-04920	Need additional badge for the media monitor position at the JPIC
02-04921	MIDAS/ARERAS drill scenario problem with dose projections
02-04922	Operations experience in the OSC
02-04923	One hour NRC notification exceeded
02-04927	Need to add DLCo System Operator to EPP/IP1.1 Attachment 2
02-04928	EA&DP board on release terminated late update
02-04930	Staffing procedure unclear for JPIC activation
02-04931	Communications and teamwork regarding assessing RCS activity levels
02-04932	Capturing offsite response history
02-04935	SPDS/IPC data not agreeing
02-04945	No discussion of Unit 2 personnel regarding protective actions
02-04946	Asset numbers and noun descriptors on log board
02-04947	Page announcements need unit designations
02-04948	Cycling off of the EOF HVAC units for briefs
02-04949	Telecommunications problems
02-04958	Coordination of field operators between control room and OSC

LIST OF ACRONYMS

CR	Condition Report
EOF	Emergency Operations Facility
EP	Emergency Preparedness
EPP	Emergency Preparedness Plan
ERO	Emergency Response Organization
IP	Implementing Procedure
JPIC	Joint Public Information Center
OSC	Operations Support Center
PAR	Protective Action Recommendation
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
SCR	Simulator Control Room
TSC	Technical Support Center