



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23185
ATLANTA, GEORGIA 30303-8931

August 19, 2008

Mr. David A. Christian
President and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: NORTH ANNA POWER STATION - NRC EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000338/2008501 AND 05000339/2008501

Dear Mr. Christian:

On July 24, 2008, the U.S. Nuclear Regulatory Commission (NRC) completed an Emergency Preparedness inspection at your North Anna Power Station, Units 1 and 2. The enclosed inspection report documents the inspection results, which were discussed on July 24, 2008, with Mr. D. Stoddard and other members of his staff.

The inspection examined 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. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be 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).

Sincerely,

/RA/

Brian R. Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket Nos. 50-338, 50-339
License Nos. NPF-4, NPF-7

Enclosure: Inspection Report No. 05000338/2008501 AND 05000339/2008501
w/Attachment: Supplemental Information

cc w/encl: (See Page 2)

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	/RA/	/RA/					
NAME	Lee Miller	Brian Bonser					
DATE	08/19/2008	08/19/2008	8/ /2008	8/ /2008	8/ /2008	8/ /2008	8/ /2008
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:
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Letter to David A. Christian from Brian Bonser dated August 19, 2008

SUBJECT: NORTH ANNA POWER STATION - NRC EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000338/2008501 AND 05000339/2008501

Distribution w/encl:

RIDSNRRDIRS

PUBLIC

S. P. Lingam, NRR (PM: NA, SUR)

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U. S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos: 50-338, 50-339

License Nos: NPF-4, NPF-7

Report Nos: 05000338/2008501 and 05000339/2008501

Licensee: Virginia Electric and Power Company

Facility: North Anna Power Station, Units 1 and 2

Location: 1022 Haley Drive
Mineral, VA, 23117

Dates: July 21 - 24, 2008

Inspectors: L. Miller, Senior Emergency Preparedness Inspector
Chris Welch, Senior Resident Inspector
Ron Cureton, Emergency Preparedness Inspector

Approved by: Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000338/2008-501, 05000339/2008-501; 07/21- 24/2008; North Anna Power Station, Units 1 and 2; Emergency Preparedness Baseline Inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one resident inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process."

A. NRC-Identified and Self-Revealing Findings

None.

B. Licensee-Identified Violations.

None

Enclosure

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the inspection activity, the inspector conducted an in-office review of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the Emergency Plan as required by 10 CFR 50.47(b)(14). This inspection activity represents one sample on a biennial cycle.

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise conducted on July 22, 2008, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPSs) in 10 CFR 50.47 (b)(4), (5), (9), and (10), which address emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities" and Emergency Plan commitments. The facilities assessed were the Control Room Simulator, Technical Support Center (TSC), Operations Support Center (OSC) and Emergency Operations Facility (EOF).
- Other performance areas besides the RSPS, such as the emergency response organization's (ERO) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation activities, utilization of repair and field monitoring teams, interface with offsite agencies, and the overall implementation of the Emergency Plan and its implementing procedures.
- Past performance issues from NRC inspection reports and Federal Emergency Management Agency (FEMA)/Department of Homeland Security (DHS) exercise reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique process and the presentation to the licensee's senior management conducted on July 24, 2008, to evaluate the licensee's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50 Appendix E.IV.F.2.g.

Enclosure

The inspectors reviewed various documents which are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, Revision 53 of the North Anna Emergency Plan was implemented based on the licensee's determination, in accordance with 10 CFR 50.54(q), that the changes resulted in no decrease in the effectiveness of the Emergency Plan, and that the revised Emergency Plan continued to meet the requirements of 10 CFR 50.47(b) and Appendix E to 10 CFR Part 50. The inspector conducted a sampling review of the Emergency Plan changes and implementing procedure changes made between August 2007 and July 2008 to evaluate for potential decreases in effectiveness of the Emergency Plan. However, this review was not documented in a Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable planning standard (PS), 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria.

The inspector reviewed various documents which are listed in the Attachment to this report. This inspection activity satisfied one inspection sample for the EAL and Emergency Plan changes on an annual basis.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

Cornerstone: Emergency Preparedness

The inspectors sampled licensee submittals for three Performance Indicators (PI) listed below. For each of the submittals reviewed, the inspectors reviewed the period from July 1, 2007 through March 31, 2008.

To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in Nuclear Energy Institute (NEI) 99-02, "Regulatory Assessment Indicator Guideline," Revision 5, were used to verify the basis in reporting for each data element.

- Emergency Response Organization Drill/Exercise Performance (DEP)
- Emergency Response Organization Readiness (ERO)
- Alert and Notification System Reliability (ANS)

The inspectors reviewed portions of the raw PI data developed from monthly performance indicator reports and discussed the methods for compiling and reporting the PIs with cognizant emergency preparedness personnel. The inspectors also independently screened drill and exercise opportunity evaluations, drill participation reports, and drill evaluations. Selected reported values were calculated to verify their accuracy. The inspectors compared graphical representations from the most recent PI report to the raw data to verify that the data was correctly reflected in the report. Reviewed documents are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

4OA5 Other Activities

.1 (Closed) NRC Temporary Instruction (TI) 2525/175, Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review

The inspectors completed Temporary Instruction TI 2515/175, Emergency Response Organization, Drill/Exercise Performance Indicator, and Program Review. Appropriate documentation of the results was provided to NRC, HQ, as required by the TI. This completes the Region II inspection requirements for this TI for North Anna Power Station.

4OA6 Meetings, including Exit

On July 24, 2008, the lead inspector presented the inspection results to Mr. D. Stoddard and other members of his staff. The inspector confirmed that proprietary information was not provided during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

D. Stoddard Site Vice President
E. Hendrixson Director, Nuclear Safety & Licensing
L. Lane Plant Manager
P. Kemp Supervisor, Licensing
P. Serra Manager, Fleet Emergency Preparedness
M. Olin Supervisor, Nuclear Emergency Preparedness
J. Leberstien Technical Consultant

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

EPIP-1.01, Station Emergency Manager, Rev. 43
EPIP-1.03, Response to Alert, Rev. 16
EPIP-1.04, Response to Site Area Emergency, Rev. 16
EPIP-1.05, Response to General Emergency, Rev. 18
EPIP-1.06, Protective Action Recommendations, Rev. 7
EPIP-2.01, Notification of State and Local Government, Rev. 31
EPIP-2.02, Notification of NRC, Rev. 18
EPIP-3.02, Activation of Technical Support Center, Rev. 28
EPIP-3.04, Activation of Local Emergency Operations Facility, Rev. 15
EPIP-3.05, Augmentation of Emergency Organization, Rev. 3

Records and Data

Control Room, Technical Support Center, Operations Support Center, Joint Information Center - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessments)

Corrective Actions - Condition Report (CR)

CR104190,

1EP4 Emergency Action Level and Emergency Plan Changes

North Anna Nuclear Station Emergency Plan, Rev. 53
EPCP-0006, Drill and Exercise Program Manual, Rev. 9

Plans and Changes packages

EPIP-3.02, Activation of Technical Support Center, Rev. 26, 27, and 28
EPIP-3.03, Activation of Operational Support Center, Rev. 15
EPIP-3.05, Augmentation of Emergency Response Organization, Rev. 3 and 4
EPIP-4.01, Radiological Assessment Director Controlling Procedure, Rev. 24
EPIP-4.04, Emergency Personnel Radiation Exposure, Rev. 12
EPIP-4.34, Field Team Radio Operator Instructions, Rev. 7

40A1 Performance Indicator Verification

Procedures

DNAP-2605, Emergency Preparedness Performance Indicators, Rev. 6

Records and Data

Siren System Availability Test Records 7/1/07 – 3/31/08
ERO Personnel Participation 7/1/07 – 3/31/08
DEP Opportunities 7/1/07 – 3/31/08

LIST OF ACRONYMS

ANS	Alert and Notification System (ANS) Testing
DEP	Emergency Response Organization Drill/Exercise Performance
DHS	Department of Homeland Security
EAL	Emergency Action Level
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
OSC	Operations Support Center
PI	Performance Indicator
PS	Planning Standard
RSPS	Risk Significant Planning Standard
TI	Temporary Instruction
TSC	Technical Support Center