



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

May 25, 2007

Mr. Dale E. Young, Vice President
Crystal River Nuclear Plant (NA1B)
ATTN: Supervisor, Licensing &
Regulatory Programs
15760 West Power Line Street
Crystal River, FL 34428-6708

SUBJECT: CRYSTAL RIVER UNIT 3 - NRC EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000302/2007501

Dear Mr. Young:

On April 27, 2007, the U. S. Nuclear Regulatory Commission (NRC) completed an inspection at your Crystal River Unit 3 Plant. The enclosed inspection report documents the inspection findings, which were discussed on April 27, 2007, with you and members of your 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 inspector 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).

FPC

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Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

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

Docket No.: 50-302

License No.: DPR-72

Enclosure: NRC Inspection Report 05000302/2007501
w/Attachment: Supplemental Information

cc w/encl:

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Director Site Operations
Crystal River Nuclear Plant (NA2C)
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Jon A. Franke
Plant General Manager
Crystal River Nuclear Plant (NA2C)
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Phyllis Dixon
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Crystal River Nuclear Plant (NA2C)
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Engineering Manager
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Associate General Counsel - Legal Dept.
Progress Energy Service Company, LLC
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(cc w/encl cont'd - See page 4)

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RIDSNRRDIRS
PUBLIC

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Sincerely,

/RA/

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Plant Support Branch 1
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(cc w/encl cont'd - See page 4)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: _____

OFFICE	RII:DRS	RII:DRP					
SIGNATURE	RA	RA					
NAME	KREH	ERNSTES					
DATE	5/23/2007	5/23/2007	5/ /2007	5/ /2007	5/ /2007	5/ /2007	5/ /2007
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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U. S. NUCLEAR REGULATORY COMMISSION

Enclosure

REGION II

Docket No: 50-302

License No: DPR-72

Report No: 05000302/2007501

Licensee: Progress Energy Florida (Florida Power Corporation)

Facility: Crystal River Unit 3

Location: 15760 West Power Line Street
Crystal River, FL 34428-6708

Dates: April 23-27, 2007

Inspector: James L. Kreh, Emergency Preparedness Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000302/2007501; 04/23-27/2007; Crystal River Unit 3; Routine Baseline Inspection

This report covers an announced inspection conducted by a Region II emergency preparedness inspector. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

B. Licensee-Identified Violations.

None

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP2 Alert and Notification System (ANS) Evaluation

a. Inspection Scope

The inspector evaluated the adequacy of licensee methods for testing the alert and notification system in accordance with NRC Inspection Procedure 71114, Attachment 02, "Alert and Notification System Evaluation". The applicable planning standard 10 CFR 50.47(b)(5) and related requirements contained in Section IV.D of Appendix E to 10 CFR Part 50 were used as reference criteria. The evaluation criteria contained in NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Revision 1; and Federal Emergency Management Agency (FEMA) Report REP-10, "Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants" were also applied. This inspection activity represents one sample on a biennial cycle.

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

b. Findings

No findings of significance were identified.

1EP3 Emergency Response Organization (ERO) Staffing and Augmentation System

a. Inspection Scope

The inspector reviewed the ERO augmentation staffing requirements and the process for notifying ERO personnel to ensure the readiness of key staff to respond to an event and the capability for timely activation of emergency response facilities (ERFs). The results of an unannounced off-hours augmentation drill (which included actual travel and staffing of ERFs) conducted on October 25, 2006 were reviewed. The inspector evaluated the licensee's provisions for a backup notification system. A sample of problems identified from augmentation drills was reviewed to assess the effectiveness of corrective actions.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 03, "Emergency Response Organization Staffing and Augmentation System". The applicable planning standard 10 CFR 50.47(b)(2) and related requirements contained in Appendix E to 10 CFR Part 50 were used as reference criteria. This inspection activity represents one sample on a biennial cycle.

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

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level (EAL) and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, Revision 26 of the Radiological Emergency Response 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 Plan, and that the revised 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 Plan changes to evaluate for potential decreases in effectiveness of the 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 10 CFR 50.47(b)(4) and related requirements contained in 10 CFR 50.54(q) and Appendix E to 10 CFR Part 50 were used as reference criteria. This inspection activity represents one sample on an annual cycle.

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

b. Findings

No findings of significance were identified.

1EP5 Correction of Emergency Preparedness Weaknesses

a. Inspection Scope

The inspector reviewed a sample of the corrective actions identified through the emergency preparedness (EP) program in order to ascertain the significance of the issues and to determine whether repetitive problems were occurring. The facility's self-assessments and audits were reviewed to evaluate the licensee's ability to be self-critical, thus avoiding complacency and degradation of its EP program, and to assess the completeness and effectiveness of a sample of EP-related corrective actions. The inspector reviewed documentation associated with the one emergency declaration made since the last inspection of this program area.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 05, "Correction of Emergency Preparedness Weaknesses". The applicable planning standard 10 CFR 50.47(b)(14) and related requirements contained in Appendix E to 10 CFR Part 50 were used as reference criteria. This inspection activity represents one sample on a biennial cycle.

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

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator (PI) Verification

a. Inspection Scope

Cornerstone: Emergency Preparedness

The inspector reviewed the licensee's process for developing the data for the three EP PIs listed below, and examined data reported to the NRC for the four-quarter period April 1, 2006 - March 31, 2007. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 4, were used to verify the basis in reporting for each data element.

- Drill and Exercise Performance (DEP)
- ERO Drill Participation
- ANS Reliability

The inspector verified the accuracy of the PI for DEP through review of a sample of drill and event records. The inspector reviewed selected training records to verify the accuracy of the PI for ERO drill participation for personnel assigned to key positions in the ERO. The inspector verified the accuracy of the PI for ANS reliability through review of a sample of the records of periodic system tests.

The inspection was conducted in accordance with NRC Inspection Procedure 71151, "Performance Indicator Verification." This inspection activity represents three samples on an annual cycle.

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

b. Findings

No findings of significance were identified.

4OA6 Meetings, including Exit

On April 27, 2007, the inspector presented the inspection results to Mr. W. Brewer, Acting Plant Manager, and other members of his staff. The inspector confirmed that although certain proprietary information was reviewed during the inspection, no proprietary information was retained by the inspector, and none appears in this report.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

M. Annacone, Manager, Engineering
W. Brewer, Manager, Maintenance (Acting Plant Manager)
P. Dixon, Manager, Nuclear Assessment
J. Stephenson, Supervisor, Emergency Preparedness
M. Van Sicklen, Superintendent, Operations Training
D. Young, Vice President, Crystal River Nuclear Plant

NRC Personnel

T. Morrissey, Senior Resident Inspector

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

Discussed

None

DOCUMENTS REVIEWED

Section 1EP2: Alert and Notification System Evaluation

Plans and Procedures

Citrus County Radiological Emergency Response Procedure REP SOP 11, Operation of the Emergency Sirens, 01/2007

Records and Data

Documentation of weekly full-volume ANS tests, 03/2005 - 03/2007
Selected ANS repair and annual preventive maintenance records, 03/03/2006 - 04/16/2007

Section 1EP3: ERO Staffing and Augmentation System

Plans and Procedures

Table 6.1 and Section 18.3.1.f of Radiological Emergency Response Plan, Rev. 26
EM-206, Emergency Plan Roster Notification, Rev. 102
EM-911, Security Threats, Rev. 2
AI-4000, Conduct of Emergency Preparedness and Schedule for Radiological Emergency Response Plan Maintenance, Rev. 7
AI-4001, Conduct of Drills and Exercises Supporting the Radiological Emergency Response Plan, Rev. 2

Records and Data

Emergency Response Personnel Roster, 03/31/2007
Weekly ERO On-Call List, 04/11/2007
Documentation of annual ERO augmentation drills (communications test – no travel by ERO personnel) conducted 03/29/2006 and 03/14/2007
Documentation of ERO augmentation drill (included actual travel and staffing of ERFs) conducted 10/25/2006

Section 1EP4: Emergency Action Level (EAL) and Emergency Plan Changes

Plans and Procedures

Radiological Emergency Response Plan, Rev. 26 and associated 10 CFR 50.54(q) evaluation Changes and associated 10 CFR 50.54(q) evaluations for revisions to the following Emergency Plan Implementing Procedures: EM-202, Revs. 79 and 80; EM-220, Rev. 32; EM-225D, Rev. 4; EM-400, Rev. 4; EM-402, Rev. 1

Section 1EP5: Correction of Emergency Preparedness Weaknesses

Procedures

CAP-NGGC-0200, Corrective Action Program, Rev. 19
 CAP-NGGC-0206, Corrective Action Program Trending and Analysis, Rev. 2

Records and Data

Emergency Plan Activation Summary/Critique of Notification of Unusual Event (NOUE) declaration on 06/12/2006
 Documentation of ERO drills conducted on 04/26/2006, 06/21/2006, 10/25/2006

Audits and Self-Assessments

Nuclear Assessment Section (NAS) Report File No. C-EP-07-01, Emergency Preparedness Assessment, 02/27/2007
 Self-Assessment No. 176147, ERO Training Program Effectiveness

Nuclear Condition Reports (NCRs)

NCR 175269, Loss of ANS sirens
 NCR 186245, Area requiring corrective action from 03/01/2006 EP training drill
 NCR 192650, Area requiring corrective action in dose assessment from 2006 exercise
 NCR 194236, Key position not counted correctly for Drill Participation PI
 NCR 197196, Lessons learned from Tropical Storm Alberto
 NCR 197365, Notification of Unusual Event declared for Tropical Storm Alberto
 NCR 210641, Area requiring corrective action from 10/25/2006 off-hours unannounced drill
 NCR 218754, Minimum staffing time inconsistency identified by NAS C-EP-07-01 audit
 NCR 220610, Weakness in documentation and labeling for Emergency Operations Facility diesel identified by NAS C-EP-07-01 audit
 NCR 225807, Inadequate control of EP references
 NCR 227784, Key ERO position participation not counted correctly
 NCR 230810, Siren test protocol
 NCR 231002, Inadequate documentation for Drill Participation PI

Section 4OA1: Performance Indicator (PI) Verification

Procedures, Records, and Data

Documentation (Control Room log, event notification forms, critique report) for NOUE declaration on 06/12/2006
 Documentation package (scenario/time line, event notification forms, critique report) for ERO drill on 06/21/2006
 Documentation of DEP opportunities from Licensed Operator simulator evaluations on 01/17/2007, 01/18/2007, 01/24/2007, 01/31/2007
 Documentation of ANS weekly tests, 04/01/2006 - 03/31/2007
 Records of drill and exercise participation by selected ERO personnel, 2005-2006

ACRONYMS AND INITIALISMS

ANS	Alert and Notification System
CFR	Code of Federal Regulations
NCR	Nuclear Condition Report
DEP	Drill and exercise performance
EP	Emergency Preparedness
EAL	Emergency Action Level
ERO	Emergency Response Organization
FEMA	Federal Emergency Management Agency
NEI	Nuclear Energy Institute
NOUE	Notification of Unusual Event
PI	Performance Indicator
NAS	Nuclear Assessment Section