



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

June 2, 2006

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 NUCLEAR PLANT - NRC INSPECTION REPORT  
05000302/2006010

Dear Mr. Young:

On April 28, 2006, the US Nuclear Regulatory Commission (NRC) completed an inspection at your Crystal River Unit 3. The enclosed inspection report documents the inspections results, which were discussed with you, and other 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 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).

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

Sincerely,

/RA/

Brian R. Bonser, Chief  
Plant Support Branch 2  
Division of Reactor Safety

Docket No. 50-302  
License No. DPR-72

Enclosure: (See page 2)

Enclosure: NRC Inspection Report 05000302/2006010  
w/Attachment: Supplemental Information

cc w/encl:

Daniel L. Roderick  
Director Site Operations  
Crystal River Nuclear Plant (NA2C)  
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(cc w/encl cont'd - See page 3)

FPC

3

(cc w/encl cont'd)

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U. S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No.: 50-302

License No.: DPR-72

Report No: 05000302/2006010

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 24-28, 2006

Inspectors: L. Miller, Senior Emergency Preparedness Inspector  
(1EP1, 1EP4)  
J. Kreh, Emergency Preparedness Inspector (1EP1, 4AO1)  
T. Morrissey, Senior Resident Inspector (1EP1)

Approved by: Brian R. Bonser, Chief  
Plant Support Branch 2  
Division of Reactor Safety

Enclosure

## SUMMARY OF FINDINGS

IR 05000302/2006010; 04/24-28/2006; Crystal River Unit 3; emergency preparedness

The report covered an announced inspection by a team of 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," Revision 3, dated July 2000.

A. NRC-Identified and Self-Revealing Findings

Cornerstone: Emergency Preparedness

None

B. Licensee-Identified Violations.

None

## 1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

### 1EP1 Exercise Evaluation

#### a. Inspection Scope

Prior to the inspection activity, the inspectors 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 April 26, 2006, 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 are 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), Operational 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) 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 conducted April 28, 2006, 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

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 (EAL) and Emergency Plan Changes

##### a. Inspection Scope

The inspectors review of revisions to the emergency plan, implementing procedures and EAL changes was performed for determining that changes had not decreased the effectiveness of the plan. The inspectors also evaluated the associated 10 CFR 50.54(q) reviews associated with non-administrative emergency plan, implementing procedures and EAL changes. The Crystal River Unit 3 Radiological Emergency Response Plan, revision 25 was reviewed.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable PS, 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria. The 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, Regulatory Guide 1.101 were also used as references. This inspection activity represents one sample on an annual basis.

The inspectors 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

The inspectors reviewed the licensee's procedure for developing the data for the Emergency Preparedness PIs which are: (1) DEP; (2) ERO Drill Participation; and (3) Alert and Notification System (ANS) Reliability. The inspectors examined data reported to the NRC for the period April 1, 2005 to March 31, 2006. Procedural guidance for reporting PI information and records used by the licensee to identify potential PI occurrences were also reviewed. The inspectors verified the accuracy of the PI for ERO drill and exercise performance through review of a sample of drill and event records. The inspectors 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 inspectors verified the accuracy of the PI for alert and notification system reliability through review of a sample of the licensee's records of periodic system tests.

The inspection was conducted in accordance with NRC Inspection Procedure 71151, "Performance Indicator Verification." The applicable planning standard, 10 CFR 50.9 and Nuclear Energy Institute (NEI) 99-02, Revision 3, "Regulatory Assessment

Performance Indicator Guidelines,” were used as reference criteria. This inspection activity represents three samples on an annual basis.

The inspectors 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 28, 2006, the team lead for the Emergency Preparedness Inspection presented the inspection results to Mr. D. Young, Crystal River Unit 3 Vice President, and other members of his staff. The inspectors confirmed that proprietary information was not provided or taken during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION



## SUPPLEMENTAL INFORMATION

### KEY POINTS OF CONTACT

#### Licensee personnel

D. Young, Site Vice President  
S. Young, Superintendent - Security  
P. Infanger, Licensing  
T. Hobbs, Nuclear Assessment Manager  
J. Stephenson, Supervisor - Emergency Preparedness

### LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

#### Opened

None

#### Closed

None

#### Discussed

None

## LIST OF DOCUMENTS REVIEWED

### Section 1EP1: Exercise Evaluation

#### Plans and Procedures

AI-4001, Conduct of Drills and Exercises Supporting the Radiological Emergency Response Plan , Rev. 2  
EM-102, Operation of the Technical Support Center, Rev. 48  
EM-103, Operation and Staffing of the CR-3 Control Room During Emergency Classifications, Rev. 19  
EM-104, Operation of the Operational Support Center, Rev. 11  
EM-202, Duties of the Emergency Coordinator , Rev. 78  
EM-205, Personnel Emergency Responsibilities Regarding Discovery, Assembly, Evacuation, and Accountability Within the Protected Area, Rev. 28  
EM-206, Emergency Plan Roster Notification , Rev. 101  
EM-400, Operation of the Emergency Operations Facility, Rev. 3  
EM-402, Emergency Operations Facility Technical Support Team, Rev. 0  
EM-210A, Duties of the Radiation Monitoring Team: CR-3 and Energy Complex Personnel and Area Monitoring, Rev. 7  
EM-210B, Duties of the Radiation Monitoring Team: Environmental Sampling and Plume Tracking, Rev. 9

#### Records and Data from 04/26/2006 Exercise

Florida Nuclear Plant Emergency Notification Forms (Messages Nos. 1-7)

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

#### Plans and Changes packages

Change packages/10CFR50.54(q) Identification Numbers:  
172386, EM-202, Duties of the Emergency Coordinator, Rev. 77  
172386, Emergency Action Level Bases Manual, Rev. 6  
176782, EM-211, Duties of the CR3 Nuclear Security Organization, Rev. 24  
172386, CR3 Radiological Emergency Response Plan, Rev. 25  
125229, EM-210B, Duties of the Radiation Monitoring Team: Environmental Sampling and Plume Tracking, Rev. 8  
182520, AI-4001, Conduct of Drills and Exercises Supporting the Radiological Emergency Response Plan, Rev. 2

### Section 4OA1: Performance Indicator (PI) Verification

#### Procedures

CP-217, NRC Performance Indicator Program, Rev. 8

## Records and Data

Documentation (scenario, time line, event notification forms, critique report) of ERO exercise on 05/25/2005

Selected training records of drill/exercise participation by ERO personnel during 2005-2006

Siren system test records for April 2005 - March 2006

Documentation of DEP opportunities from Operations Simulator evaluations on 05/04/2005, 05/09/2005, 06/14/2005, 06/16/2005, 07/04/2005, 01/19/2006, 01/20/2006, 02/16/2006

## LIST OF ACRONYMS

ANS	Alert and Notification System
DEP	Drill/Exercise Performance
EAL	Emergency Action Level
EOF	Emergency Operations Facility
ERO	Emergency Response Organization
IMC	Inspection Manual Chapter
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operational Support Center
PI	Performance Indicator
PS	Planning Standard
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center
FEMA	Federal Emergency Management Agency

June 2, 2006

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License No. DPR-72

Enclosure: (See page 2)  
(\*) - See attached e-mail for concurrences

☐ PUBLICLY AVAILABLE

☐ NON-PUBLICLY AVAILABLE

☐ SENSITIVE

☐ NON-SENSITIVE

ADAMS: ☐ Yes      ACCESSION NUMBER: \_\_\_\_\_

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SIGNATURE		RA (*)	RA (*)	RA	RA		
NAME	LMILLER	JKREH	TMORRISSEY	JMUNDAY	BBONSER		
DATE	5/31/2006	5/23/2006	5/25/2006	6/1/2006	6/2/2006	6/ /2006	6/ /2006
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