



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

March 4, 2011

Mr. Jon A. Franke, Vice President  
Crystal River Nuclear Plant (NA1B)  
Supervisor, Licensing &  
Regulatory Programs  
15760 West Power Line Street  
Crystal River, Florida 34428-6708

SUBJECT: SUBJECT: ANNUAL ASSESSMENT LETTER FOR CRYSTAL RIVER  
NUCLEAR PLANT, UNIT 3 – (NRC INSPECTION REPORT NO.  
05000302/2011001)

Dear Mr. Franke:

On February 8, 2011, the NRC completed its end-of-cycle performance review of Crystal River Nuclear Plant, Unit 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010, through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Crystal River Unit 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Crystal River Unit 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low safety significance (Green), and all effective PIs indicated that your performance was within the nominal, expected range (Green). Therefore, the NRC plans to conduct ROP baseline inspections at the facility.

At the end of the current assessment period Crystal River Unit 3 remained in a shutdown condition. Due to the extended shutdown, there were a limited number of opportunities to complete several ROP baseline inspection procedures. NRC Inspection Manual Chapter 2515 provides for completion of the ROP baseline inspection program in situations where there are an insufficient number of samples with appropriate risk significance available for inspection. The NRC inspections performed during the current assessment period resulted in a thorough review of various aspects of the licensee's engineering, training, maintenance, and corrective action programs. Therefore, based on the completed inspections and in accordance with the guidance of Inspection Manual Chapter 2515, the NRC determined that the objectives of the ROP were met for calendar year 2010.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

The NRC also plans on conducting several infrequently performed inspections which include: IP 50001, Steam Generator Replacement, including Containment Structural Integrity Test and Integrated Leak Rate Test; Initial Reactor Operating License Examinations; and Independent Spent Fuel Storage Installation (ISFSI) Pad Concrete Pour.

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (404) 997-4721 with any questions you may have regarding this letter.

Sincerely,

*/RA/*

Daniel W. Rich, Chief  
Reactor Projects Branch 3  
Division of Reactor Projects

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

Enclosure: Crystal River Inspection/Activity Plan (03/01/2011 – 06/30/2012)

cc w/encl.: (See page 3)

cc w/encl:

R. J. Duncan, II, Vice President  
Nuclear Operations  
Carolina Power & Light Company  
Electronic Mail Distribution

Brian C. McCabe  
Manager, Nuclear Regulatory Affairs  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

James W. Holt, Plant General Manager  
Crystal River Nuclear Plant (NA2C)  
Electronic Mail Distribution

Stephen J. Cahill, Engineering Manager  
Crystal River Nuclear Plant (NA2C)  
Electronic Mail Distribution

R. Alexander Glenn  
Associate General Counsel  
(MAC - BT15A)  
Florida Power Corporation  
Electronic Mail Distribution

Christos Kamilaris, Director  
Fleet Support Services  
Carolina Power & Light Company  
Electronic Mail Distribution

William A. Passetti, Chief  
Florida Bureau of Radiation Control  
Department of Health  
Electronic Mail Distribution

Daniel R. Westcott, Supervisor  
Licensing & Regulatory Programs  
Crystal River Nuclear Plant (NA1B)  
Electronic Mail Distribution

Joseph W. Donahue, Vice President  
Nuclear Oversight  
Carolina Power and Light Company  
Electronic Mail Distribution

Jack E. Huegel  
Manager, Nuclear Oversight  
Crystal River Nuclear Plant  
Electronic Mail Distribution

David T. Conley  
Associate General Counsel  
Legal Dept.  
Progress Energy Service Company, LLC  
Electronic Mail Distribution

Mark Rigsby  
Manager, Support Services - Nuclear  
Crystal River Nuclear Plant (NA2C)  
Electronic Mail Distribution

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Crystal River Nuclear Generating Plant  
U.S. NRC  
6745 N Tallahassee Rd  
Crystal River, FL 34428

Attorney General  
Department of Legal Affairs  
The Capitol PL-01  
Tallahassee, FL 32399-1050

Ruben D. Almaguer, Director  
Division of Emergency Preparedness  
Department of Community Affairs  
Electronic Mail Distribution

Chairman  
Board of County Commissioners  
Citrus County  
110 N. Apopka Avenue  
Inverness, FL 36250

## Crystal River

## Inspection / Activity Plan

03/01/2011 - 06/30/2012

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
3	03/01/2011	04/01/2011	<b>SGRP</b> IP 50001	<b>- SGRP ACTIVITIES</b> Steam Generator Replacement Inspection	2
3	04/04/2011	04/08/2011	<b>TFPI</b> IP 7111105P	<b>- 805 TFPI</b> Fire Protection-NFPA 805 Transition Period [Triennial]	6
3	04/18/2011	04/22/2011	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
3	06/13/2011	06/17/2011	<b>PSB1-RP</b> IP 71124.06	<b>- RAD ENVIRONMENTAL MONITORING PROGRAM</b> Radioactive Gaseous and Liquid Effluent Treatment	1
3	06/20/2011	06/24/2011	<b>EB3-HS</b> IP 7111107T	<b>- HEAT SINK</b> Heat Sink Performance	1
3	08/22/2011	08/26/2011	<b>OL EXAM</b> V23355	<b>- INITIAL EXAM PREP</b> CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	5
3	09/12/2011	09/16/2011	<b>OL EXAM</b> V23355	<b>- INITIAL EXAM - WEEK 1</b> CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	5
3	09/12/2011	09/16/2011	<b>PSB1EP</b> IP 7111402	<b>- EMERGENCY PREPAREDNESS INSPECTION</b> Alert and Notification System Testing	1
3	09/12/2011	09/16/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
3	09/12/2011	09/16/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	09/12/2011	09/16/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
3	09/12/2011	09/16/2011	IP 71151	Performance Indicator Verification	
3	09/19/2011	09/23/2011	<b>OL EXAM</b> V23355	<b>- INITIAL EXAM - WEEK 2</b> CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	4
3	10/31/2011	11/04/2011	<b>PSB1-RP</b> IP 71124.01	<b>- RP OCCUPATIONAL WEEK 1</b> Radiological Hazard Assessment and Exposure Controls	4
3	10/31/2011	11/04/2011	IP 71124.02	Occupational ALARA Planning and Controls	
3	10/31/2011	11/04/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
3	10/31/2011	11/04/2011	IP 71124.04	Occupational Dose Assessment	
3	10/31/2011	11/04/2011	IP 71124.05	Radiation Monitoring Instrumentation	
3	10/31/2011	11/04/2011	IP 71151	Performance Indicator Verification	
3	11/14/2011	11/18/2011	<b>PSB1-RP</b> IP 71124.01	<b>- RP OCCUPATIONAL WEEK 2</b> Radiological Hazard Assessment and Exposure Controls	4
3	11/14/2011	11/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
3	11/14/2011	11/18/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
3	11/14/2011	11/18/2011	IP 71124.04	Occupational Dose Assessment	
3	11/14/2011	11/18/2011	IP 71124.05	Radiation Monitoring Instrumentation	
3	11/14/2011	11/18/2011	IP 71151	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

## Crystal River

## Inspection / Activity Plan

03/01/2011 - 06/30/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	
3	01/17/2012 01/20/2012	IP 71152B	Identification and Resolution of Problems	5
3	01/30/2012 02/03/2012	IP 71152B	Identification and Resolution of Problems	
		<b>MOD</b>	<b>- MODIFICATION INSPECTION</b>	
3	04/16/2012 04/20/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	3
3	04/30/2012 05/04/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>ISFSI</b>	<b>- ISFSI PAD CONCRETE POUR</b>	
3	06/18/2012 06/22/2012	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	2
		<b>PSB1EP</b>	<b>- EMERGENCY PREPAREDNESS EXERCISE</b>	
3	06/25/2012 06/29/2012	IP 7111401	Exercise Evaluation	3
3	06/25/2012 06/29/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
3	06/25/2012 06/29/2012	IP 71151	Performance Indicator Verification	

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