



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
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ATLANTA, GEORGIA 30303-1257

September 1, 2010

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: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –
CRYSTAL RIVER NUCLEAR PLANT**

Dear Mr. Franke:

On August 11, 2010, the NRC staff completed its performance review of the Crystal River Nuclear Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security-Related-Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Crystal River Unit 3 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green or N/A). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

During this assessment period, a Special Inspection Team (SIT) continued to assess the circumstances associated with the concrete delamination in portions of the containment building. A public exit meeting has been scheduled for September 2, 2010, to discuss the results of our special inspection.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. In addition to ROP baseline inspection activities, we also plan on conducting several infrequently performed inspections, which include: License Renewal; Inspection Procedure (IP) 50001, Steam Generator Replacement; Temporary Instruction (TI) 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal & Containment Spray Systems; TI 2515/179, Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS; Initial Reactor Operating License Examinations; and Operator Licensing Training and Qualification Effectiveness. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are

not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of cycle review.

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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-997-4721 with any questions you may have regarding this letter or the inspection plan.

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 (09/01/2010 - 12/31/2011)

cc w/encl: (See page 3)

cc w/encl:

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Crystal River
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			DRSEB3 - SPECIAL INSPECTION - CONTAINMENT EVAL		1
3	01/01/2010	09/01/2010	IP 93812	Special Inspection	
			DRP/BR3 - S/G REPLACEMENT/CONTAINMENT SIT INSP.		2
3	09/01/2010	12/31/2010	IP 50001	Steam Generator Replacement Inspection	
			EB3LR - EB3 LICENSE RENEWAL FOLLOWUP		2
3	09/13/2010	09/17/2010	IP 71002	License Renewal Inspection	
			LIC REN - LICENSE RENEWAL COMPLETION		2
3	10/04/2010	10/08/2010	IP 71002	License Renewal Inspection	
			PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		3
3	10/04/2010	10/08/2010	IP 7111401	Exercise Evaluation	
3	10/04/2010	10/08/2010	IP 71151	Performance Indicator Verification	
			TI-177 - GASEOUS INTRUSION		3
3	10/25/2010	10/29/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			OL RQ - FOCUSED TRAINING INSPECTION		2
3	10/25/2010	10/29/2010	IP 41500	Training And Qualification Effectiveness	
			PSB1-RP - RP PUBLIC RADIATION PROTECTION		4
3	12/06/2010	12/10/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	12/06/2010	12/10/2010	IP 71124.04	Occupational Dose Assessment	
3	12/06/2010	12/10/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
3	12/06/2010	12/10/2010	IP 71124.07	Radiological Environmental Monitoring Program	
3	12/06/2010	12/10/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
3	12/06/2010	12/10/2010	IP 71151	Performance Indicator Verification	
			PSB1-TI - TI-179 NSTS VERIFICATION		4
3	12/06/2010	12/10/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			TFPI - 805 TFPI		6
3	04/04/2011	04/08/2011	IP 7111105T	Fire Protection [Triennial]	
3	04/18/2011	04/22/2011	IP 7111105T	Fire Protection [Triennial]	
			EB3HS - HEAT SINK		1
3	06/20/2011	06/24/2011	IP 7111107T	Heat Sink Performance	
			OL EXAM - INITIAL EXAM PREP		3
3	08/22/2011	08/26/2011	V23355	CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 1		3
3	09/12/2011	09/16/2011	V23355	CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	
			PSB1EP - EMERGENCY PREPAREDNESS INSPECTION		1
3	09/12/2011	09/16/2011	IP 7111402	Alert and Notification System Testing	

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

Enclosure

Crystal River
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
PSB1EP - EMERGENCY PREPAREDNESS INSPECTION					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	
OL EXAM - INITIAL EXAM - WEEK 2					3
3	09/19/2011	09/23/2011	V23355	CRYSTAL RIVER/SEPTEMBER 2011 EXAM AT POWER FACILITIES	
PSB1-RP - RP OCCUPATIONAL WEEK 1					3
3	10/31/2011	11/04/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
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 71124.05	Radiation Monitoring Instrumentation	
3	10/31/2011	11/04/2011	IP 71151	Performance Indicator Verification	
PSB1-RP - RP OCCUPATIONAL WEEK 2					3
3	11/14/2011	11/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
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 71124.05	Radiation Monitoring Instrumentation	
3	11/14/2011	11/18/2011	IP 71151	Performance Indicator Verification	

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