

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85 ATLANTA, GEORGIA 30303-8931

September 2, 2008

Mr. Dale E. Young Vice President Crystal River Nuclear Plant (NA1B) 15760 West Power Line Street Crystal River, FL 34428-6708

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

Dear Mr. Young:

On August 13, 2008, the NRC staff completed its performance review of Crystal River Nuclear Plant, Unit 3 for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 Physical Protection/Security cornerstone performance 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). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. In addition, TI 2515/173, Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative, will be performed at your facility prior to August 30, 2010. In the near term, we will contact you to assess your readiness for this inspection and then finalize our schedule accordingly.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2009. 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 <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (the Public Electronic Reading Room).

### FPC

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4629 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

#### /RA/

Marvin D. Sykes, Chief Reactor Projects Branch 3 Division of Reactor Projects

Enclosure: Crystal River Nuclear Plant Inspection / Activity Plan

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

#### FPC

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## Crystal River Inspection / Activity Plan 09/01/2008 - 12/31/2009

TI-T71       - B.5.B PHASE 2&3       3         3       IP 2515/171       Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies       10/06/2008       10/10/2008       Generic Safety Inspecies         9       PSB1-RP       - RADIATION PROTECTION PEINSPECTION VISIT       1       10/27/2008       Baseline Inspections         3       IP 7112101       Access Control to Radiologically Significant Areas       10/27/2008       10/29/2008       Baseline Inspections         3       IP 7112101       Access Control to Radiologically Significant Areas       12/01/2008       12/05/2008       Baseline Inspections         3       IP 7112103       Radiation Monitoring Instrumentation and Protective Equipment       12/01/2008       12/05/2008       Baseline Inspections         3       IP 7112201       Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Program (REMP) And Radioactive Material Control Program       12/01/2008       12/05/2008       Baseline Inspections         3       IP 71151-0R01       Occupational Exposure Control Effectiveness       12/01/2008       12/05/2008       Baseline Inspections         3       IP 71151-0R01       RETS/ODCM Radiological Effluent       12/01/2008       12/05/2008       Baseline Inspections         8       IP 71151-PR01       RETS/ODCM Radiological Effluent       12/01/2008	Unit					d Dates	Inspection
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3       IP 7111404       Emergency Action Level and Emergency Plan Changes       05/04/2009       05/08/2009       EP Baseline Inspection         3       IP 7111405       Correction of Emergency Preparedness Weaknesses and Deficiencies       05/04/2009       05/08/2009       EP Baseline Inspection         3       IP 71151-EP01       Drill/Exercise Performance       05/04/2009       05/08/2009       Baseline Inspection         3       IP 71151-EP02       ERO Drill Participation       05/04/2009       05/08/2009       Baseline Inspection         3       IP 71102       LICENSE RENEWAL INSPECTION       5       05/04/2009       05/08/2009       Baseline Inspection         3       IP 71002       License Renewal Inspection       07/27/2009       07/31/2009       License Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         3       IP 71002       License Renewal Inspection       08/01/2009       08/01/2009       08/01/2009       08/01/2009       Icense Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/01/2009       08/01/2009       08/01/2009       08/01/2009       Icense Renewal Inspection         3       IP 71002	3	IP 7111402	Alert and Notification System Testing		05/04/2009	05/08/2009	EP Baseline Inspection
3       IP 7111405       Correction of Emergency Preparedness Weaknesses and Deficiencies       05/04/2009       05/08/2009       EP Baseline Inspection         3       IP 71151-EP01       Drill/Exercise Performance       05/04/2009       05/08/2009       Baseline Inspections         3       IP 71151-EP02       ERO Drill Participation       05/04/2009       05/08/2009       Baseline Inspections         3       IP 71151-EP03       Alert & Notification System       05/04/2009       05/08/2009       Baseline Inspections         3       IP 71002       License Renewal Inspection       05/04/2009       07/31/2009       License Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         1       - LICENSE RENEWAL INSPECTION       5       -       -       -       -         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         1       - LICENSE RENEWAL INSPECTION       08/10/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/03/2009       08/01/2009       License Renewal Inspection         3       IP 71002       License Re	3	IP 7111403	Emergency Response Organization Augmentation Testing		05/04/2009	05/08/2009	EP Baseline Inspection
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3       IP 71151-EP02       ERO Drill Participation       05/04/2009       05/08/2009       Baseline Inspections         3       IP 71151-EP03       Alert & Notification System       05/04/2009       05/08/2009       Baseline Inspections         3       IP 71151-EP03       Alert & Notification System       05/04/2009       05/08/2009       Baseline Inspections         1       - LICENSE RENEWAL INSPECTION       5       07/27/2009       07/31/2009       License Renewal Inspections         3       IP 71002       License Renewal Inspection       07/27/2009       07/31/2009       License Renewal Inspections         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         1       - LICENSE RENEWAL INSPECTION       License Renewal Inspection       08/01/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/01/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/01/2009       08/04/2009       Not Applicable         3       IP 71002       License Renewal Inspection       08/01/2009       08/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/	3	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		05/04/2009	05/08/2009	EP Baseline Inspection
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LI       • LICENSE RENEWAL INSPECTION       5         3       IP 71002       License Renewal Inspection       07/27/2009       07/31/2009       License Renewal Inspection         3       V2305       FINITIAL EXAM - PREP       3       08/03/2009       08/07/2009       Not Applicable         3       V2305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         3       V2305       LICENSE RENEWAL INSPECTION       5       5       5       5         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/11/2009       08/14/2009       License Renewal Inspection         3       IP 71002       LICENSE RENEWAL INSPECTIONES       08/03/2009       08/04/2009       Not Applicable         3       V2305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       09/04/200       Not Applicable         3       V2305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/12009       09/04/200       Not Applicable	3	IP 71151-EP02	ERO Drill Participation		05/04/2009	05/08/2009	Baseline Inspections
3       IP 71002       License Renewal Inspection       07/27/2009       07/31/2009       License Renewal Inspection         0       EXAM       INITIAL EXAM - PREP       3       3       08/03/2009       08/07/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/31/2009       08/04/2009       License Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable<	3	IP 71151-EP03	Alert & Notification System		05/04/2009	05/08/2009	Baseline Inspections
OL EXAM       • INITIAL EXAM - PREP       3         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         1       • LICENSE RENEWAL INSPECTION       5       5       5       5       5         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection       08/11/2009       License Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       3       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable		LI - LI	CENSE RENEWAL INSPECTION	5			
3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/03/2009       08/07/2009       Not Applicable         LI       - LICENSE RENEWAL INSPECTION       5	3	IP 71002	License Renewal Inspection		07/27/2009	07/31/2009	License Renewal Inspec
Li       - LICENSE RENEWAL INSPECTION       5         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         PSB1-RP       - RP PREINSPECTION VISIT (OCCUPATIONAL)       1       1		OL EXAM - IN	ITIAL EXAM - PREP	3			
3       IP 71002       License Renewal Inspection       08/10/2009       08/14/2009       License Renewal Inspection         3       OL EXAM       - INITIAL EXAM - WEEK 1       3         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         PSB1-RP       - RP PREINSPECTION VISIT (OCCUPATIONAL)       1	3	V23305	CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES		08/03/2009	08/07/2009	Not Applicable
OL EXAM       - INITIAL EXAM - WEEK 1       3         3       V23305       CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES       08/31/2009       09/04/2009       Not Applicable         PSB1-RP       - RP PREINSPECTION VISIT (OCCUPATIONAL)       1		LI - L	ICENSE RENEWAL INSPECTION	5			
3 V23305 CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES 08/31/2009 09/04/2009 Not Applicable PSB1-RP - RP PREINSPECTION VISIT (OCCUPATIONAL) 1	3	IP 71002	License Renewal Inspection		08/10/2009	08/14/2009	License Renewal Inspec
PSB1-RP - RP PREINSPECTION VISIT (OCCUPATIONAL) 1		OL EXAM - IN		3			
	3				08/31/2009	09/04/2009	Not Applicable
3 IP 7112101 Access Control to Radiologically Significant Areas 09/07/2009 09/10/2009 Baseline Inspections				1			
	3	IP 7112101	Access Control to Radiologically Significant Areas		09/07/2009	09/10/2009	Baseline Inspections

This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures. Page 2 of 2

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## Crystal River Inspection / Activity Plan 09/01/2008 - 12/31/2009

Unit Number	Inspection A		Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
Number	-				Otart	Liid	Турс
	OL EXAM	- INITIAL	EXAM - WEEK 2	2			
3	V23305		CRYSTAL RIVER/SEPTEMBER 2009 EXAM AT POWER FACILITIES		09/14/2009	09/18/2009	Not Applicable
	EB3SGR	- STEAM	I GENERATOR REPLACEMENT	4			
3	IP 50001		Steam Generator Replacement Inspection		09/26/2009	11/26/2009	Other Routine
	PSB1-RP	- RP OC	CUPATIONAL BASELINE WEEK 1 (OUTAGE)	3			
3	IP 7112101		Access Control to Radiologically Significant Areas		09/28/2009	10/02/2009	Baseline Inspections
3	IP 7112201		Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/28/2009	10/02/2009	<b>Baseline Inspections</b>
3	IP 7112202		Radioactive Material Processing and Transportation		09/28/2009	10/02/2009	Baseline Inspections
3	IP 71151-OF	201	Occupational Exposure Control Effectiveness		09/28/2009	10/02/2009	Baseline Inspections
3	IP 71151-PR	.01	RETS/ODCM Radiological Effluent		09/28/2009	10/02/2009	Baseline Inspections
	EB3ISI	- INSER	VICE INSPECTION	1			
3	IP 7111108F	)	Inservice Inspection Activities - PWR		10/05/2009	10/09/2009	Baseline Inspections
	EB3TI172	- TI-172	RCS DM BUTT WELDS	1			
3	IP 2515/172		Reactor Coolant System Dissimiliar Metal Butt Welds		10/05/2009	10/09/2009	Generic Safety Inspectic