



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

August 5, 2010

MEMORANDRUM TO: Frederick D. Brown, Director  
Division of Inspection and Regional Support  
Office of Nuclear Reactor Regulation

FROM: Leonard D. Wert, Jr., Director */RA/*  
Division of Reactor Projects

SUBJECT: COMPLETION OF REACTOR OVERSIGHT PROGRAM (ROP)  
BASELINE INSPECTIONS FOR THE EXTENDED SHUTDOWN  
OF CRYSTAL RIVER UNIT 3 IN THE CALENDAR YEAR 2010.

Crystal River Unit 3 was shutdown on September 26, 2009, for a scheduled steam generator (SG) replacement refueling outage (R16). SG replacement activities were completed in January 2010. However, the unit remained shut down and defueled in order to repair damage to the containment found during creation of the temporary containment opening. Containment repairs are currently scheduled to be completed in the third quarter of 2010, but the repair schedule has experienced significant delays in the past six months, and may experience additional delays in the future. As a result, due to the extended "No Mode" condition, with all fuel off loaded to the spent fuel pool, there will be a limited number of available samples and opportunities to apply several ROP baseline inspection procedures (IP) in calendar year 2010. However, Region II has determined that the objectives of the ROP baseline inspection program will be met for Crystal River Unit 3 in 2010.

In accordance with Manual Chapter 2515, "Approval by the Director, Division of Inspection & Regional Support (DIRS), NRR, is required when the inspection requirements in an inspectable area cannot be met." Manual Chapter 2515 also states, "The sample size may be reduced to a number below the minimum value in situations where there are an insufficient number of samples with appropriate risk significance available for inspection (e.g., a reduction of sample size to zero, if necessary, when no samples exist)."

The enclosed table specifies the inspection procedures for which the minimum number of inspection samples, will very likely not be completed in CY 2010 because of a reduced number of risk significant samples and/or there were no opportunities to apply the procedure. The remainder of the ROP baseline inspections is expected to be fully completed. Additionally, during CY 2010, team inspections have been completed in Operator Licensing (IP 71111.11B), Problem Identification and Resolution (IP 71152B), and Component Design Bases Inspection (IP 71111.21). Also, a Special Inspection is in progress to review the causes and corrective actions related to structural flaws in the containment building. Finally, the Steam Generator Replacement Inspection (IP 50001), which includes inspection of repairs to the temporary containment opening is ongoing.

CONTACT: Daniel W. Rich RII/DRP  
404-997-4721

The substantial effort devoted to these inspections and resultant thorough review of various aspects of the licensee's engineering, training, maintenance, and corrective actions programs provides confidence that the intent of the ROP baseline has been completed. This confidence, and the allowance by Manual Chapter 2515 to reduce baseline inspection sample sizes below the minimum when required, leads Region II to conclude that the objectives of the 2010 ROP Baseline Inspection Program will be met for Crystal River Unit 3.

Should you have any questions please contact Dan Rich, Chief, Reactor Projects Branch 3, at 404-997-4721.

Enclosure: (As stated)

cc w/encl.

Luis A. Reyes, Regional Administrator

Victor M. McCree, Deputy Regional  
Administrator

Kriss M. Kennedy, Director, DRS

Harold O. Christensen, Deputy Director, DRS

Leonard D. Wert, Jr., Director, DRP

Joel T. Munday, Deputy Director, DRP

Farideh E. Saba, Crystal River 3, Senior  
Project Manager, NRR

Nathan Sanfilippo, Executive Technical  
Assistant, EDO

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The substantial effort devoted to these inspections and resultant thorough review of various aspects of the licensee's engineering, training, maintenance, and corrective actions programs provides confidence that the intent of the ROP baseline has been completed. This confidence and the allowance by Manual Chapter 2515 to reduce baseline inspection sample sizes below the minimum when required leads Region II to believe that the objectives of the 2010 ROP Baseline Inspection Program will be met for Crystal River Unit 3.

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X PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE      X NON-SENSITIVE

ADAMS: X Yes      ACCESSION NUMBER: ML102170331      X SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRS	RII:DRP		
SIGNATURE	PCH1	TXM1	DWR1	HOC	LXW1		
NAME	PHiggins	TMorrissey	DRich	HChristensen	LWert		
DATE	07/19/2010	07/14/2010	07/28/2010	0728/2010	08/05/2010		
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OFFICIAL RECORD COPY      DOCUMENT NAME: I:\RPB3\CRYSTAL\MEMOS\FRED BROWN MEMO RELATED TO CR 3  
ROP BASELINE INSPECTIONS (3).DOCX

**TABLE 1**  
**CRYSTAL RIVER UNIT 3---1 UNIT SITE**

Inspection Procedure			Req'd Min.	Samples Complete				Total
No.	Title/ (Revision Date)	Min. Sample Frequency (Range)		Q1	Q2	Q3	Q4	
711112Q	Maint Rule Implementation (11/16/2009)	Maint Eff. Issues = 8-10/yr (a)(3) evaluation can count as one sample	Req Min = 8/yr;	2	2			The minimum sample size was not available during the inspection cycle
7111113	Maint. Risk Asmts & Work Eval (11/16/2009)	Maint. Activities - 14-24/yr	Req Min = 14/yr	0	0			The opportunity to apply the procedure was not available during the inspection cycle
7111115	Operability Evaluations (11/16/2009)	Reviews -15-21/yr	Req. Min - 15 yr	2	1			The minimum sample size was not available during the inspection cycle
7111118	Plant Modifications (10/31/2008)	Temporary Mods - 3-5/yr  Permanent Mods - Occurred (1-2/yr)	3 Minimum  Req. Min = 1/yr	0  1	0  1			For temporary mods only, the opportunity to apply the procedure was not available during the inspection cycle
*7111122	Surveillance Testing (02/27/2008)	Tests -(18-26/yr) <sup>2</sup> IST (1/Q) CIV (1-2/Cycle) RCS Leak (1-3/yr)	Req Min = 18/yr See note on IST / contmt isol valve	4*	5*			For the RCS leak rate sample only, the opportunity to apply the procedure was not available during the inspection cycle

\*No RCS leakrate samples will be completed. All IST and CIV samples will be completed.

Inspection Procedure			Req'd Min.	Samples Complete				Total
No.	Title/ (Revision Date)	Min. Sample Frequency (Range)		Q1	Q2	Q3	Q4	
71151	Performance Indicator Verification (06/28/2007)	Verifies - 11/yr (DRP Assigned) 1 <sup>st</sup> scram, scram with complications, unplanned power changes (3) 2 <sup>nd</sup> RCS leakage and Activity (2) 3 <sup>rd</sup> SSFF (1) 4 <sup>th</sup> MSPI (5)	11	3*	2*			Several PI's will not have a full year's date available to review
71152	PI&R (ID & Resolution of Problems) (01/10/2008)	Focused Reviews – 4-7/yr <sup>3</sup> , one OWA	4	1	2			For the OWA sample only, the opportunity to apply the procedure was not available during the inspection cycle
		2 semiannual trend	2		1			

\*RCS leakage or activity, unplanned scrams, unplanned power changes will not have a full year's data available to review.

<sup>2</sup> IP 71111.22 requires 18-26 samples/year. Quarterly sample to include 1 Inservice Test activity. Once per refueling cycle select 1-2 containment isolation valves in the sample.

<sup>3</sup> IP 71152 is now the Resident portion of this procedure. **IP 71152B** has become the team portion of this procedure.