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Energy to Serve Your World ™ NL-10-2296

December 14, 2010

Docket No.: 50-348

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2010-004-00 Loss of Refueling Integrity

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(i)(B), Southern Nuclear Operating Company is submitting the enclosed Licensee Event Report.

This letter contains no NRC commitments. If you have any questions, please contact Doug McKinney at (205) 992-5982.

Sincerely,

J. R. Johnson V Vice President – Farley

JRJ/WDO

Enclosure: Unit 1 Licensee Event Report 2010-004-00

cc: Southern Nuclear Operating Company

Mr. J. T. Gasser, Executive Vice President Ms. P. M. Marino, Vice President – Engineering RTYPE: CFA04.054

U. S. Nuclear Regulatory Commission

Mr. L. A. Reyes, Regional Administrator Mr. R. E. Martin, NRR Project Manager – Farley Mr. E. L. Crowe, Senior Resident Inspector – Farley Mr. P. Boyle, NRR Project Manager

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Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2010-004-00 Loss of Refueling Integrity

Enclosure

Unit 1 Licensee Event Report 2010-004-00

NRC FOF	RM 366	•		U.S. NUCLI		GULATOP		SSION	APPROVE	D BY OMB	NO 3150-	0104		EXPIRES:	10/31/2013	
U.S. NUCLEAR REGULATORY COMMISSION									Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA/Privacy Section (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects resource@nrc.gov, and to the Desk Officer, Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.							
1. FACILITY NAME Joseph M Farley Nuclear Plant – Unit 1								-	ет NUMB 5000 34		3. P	PAGE 1	OF 3			
4. TITLE Loss of Refueling Integrity																
5. EVENT DATE 6. LER NUMBER 7. REPORT DATE							ATE	8. OTHER FACILITIES INVOLVED								
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time the relief was not installed. It is estimated that refueling integrity was lost for about 10 minutes during the relief valve replacement on October 29, 2010 at approximately 04:30.

The Unit 1 site procedure governing refueling integrity was corrected for both trains of RHR. The corresponding procedure on Unit 2 was also revised.

NRC FORM 366 (10-2010)

NRC FORM 366A (10-2010)	LICENSEE EVENT REPORT (LER) U.S. NUCLEAR REGULATORY COMMISSION CONTINUATION SHEET										
1. FACILITY	NAME	2. DOCKET	6	3. PAGE							
Joseph M Farley Nuclea	ar Plant – Unit 1	05000 348	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2	OF	3			
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NARRATIVE

Westinghouse -- Pressurized Water Reactor Energy Industry Identification Codes are identified in the text as [XX]

Description of Event

On October 29, 2010 at 14:00, it was determined that Unit 1 was not in compliance with Technical Specification (TS) 3.9.3 in that one penetration providing direct access to the outside atmosphere was not isolated while Core Alterations were in progress. Prior to commencing Core Alterations, refueling integrity was appropriately established per the site procedure on the inside of containment for this penetration. After Core Alterations commenced on October 28, 2010 at 05:35, a scheduled maintenance activity required shifting the integrity boundary to outside containment for this penetration. Refueling integrity was shifted to outside containment on October 28, 2010 at 23:38. The governing site procedure for establishing refueling integrity was in error for this penetration and did not recognize the existence of two seal cooler vent valves [JM], configured in series, for the B train Residual Heat Removal (RHR) [BP] pump. After the maintenance replacement of the relief valve inside containment, it was discovered that the two seal cooler vent valves were open and provided direct access from the containment atmosphere to the auxiliary building during the time the relief was not installed. It is estimated that refueling integrity was lost for about 10 minutes during the relief valve replacement on October 29, 2010 at approximately 04:30.

Cause of Event

A latent procedure error existed in the site procedure governing refueling integrity when a design change for each RHR pump on each unit installed two additional seal cooler vent valves. Although plant drawings were appropriately updated, the impact to the refueling integrity procedure was not recognized.

Safety Assessment

This event had no adverse effect on the safety and health of the public. There were no Safety System Functional Failures. The seal cooler vent valves, configured in series, were operable and either valve could have been closed to isolate the outside atmosphere from the effects of a fuel handling accident in containment.

A fuel handling accident did not occur during the short period of time refueling integrity was actually lost. All other containment penetrations complied with TS 3.9.3 and at least 23 feet of water was maintained above the reactor vessel flange during Core Alterations. Therefore, the safety and health of the public was not adversely affected during the limited time a direct path to outside atmosphere existed.

NRC FORM 366A LICENSEE EVENT REPORT (LER) U.S. NUCLEAR REGULATORY COMMISSION (10-2010) CONTINUATION SHEET U.S. NUCLEAR REGULATORY COMMISSION											
1. FACILITY NAME	2. DOCKET		6. LER NUMBER			3. PAGE					
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NARRATIVE

Corrective Action

On October 29, 2010 at 14:00 when the seal cooler vent valves were discovered to be open, Core Alterations were already temporarily suspended for an unrelated problem with the Spent Fuel Pool bridge crane.

On October 29, 2010 at 15:20, containment integrity was moved back to inside containment when the relief valve was verified installed and intact per the site refueling integrity procedure. Core Alterations were recommenced on October 29, 2010 at 23:44.

The Unit 1 site procedure governing refueling integrity was corrected for both trains of RHR. The corresponding procedure on Unit 2 was also revised.

Additional Information

None