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April 2, 2010



Docket Nos.: 50-348

NL-10-0624

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

> Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2010-002-00 Two Auxiliary Feedwater Pumps Inoperable

Ladies and Gentlemen:

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

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

J. R. Johnson // Vice President – Farley

JRJ/CHM

Enclosure: Units 1 Licensee Event Report 2010-002-00

cc: <u>Southern Nuclear Operating Company</u> Mr. J. T. Gasser, Executive Vice President Mr. J. R. Johnson, Vice President – Farley Ms. P. M. Marino, Vice President – Engineering RTYPE: CFA04.054

> <u>U. S. Nuclear Regulatory Commission</u> Mr. L. A. Reyes, Regional Administrator Mr. R. E. Martin, NRR Project Manager – Farley Mr. E. L. Crowe, Senior Resident Inspector – Farley

Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2010-002-00 Two Auxiliary Feedwater Pumps Inoperable

Enclosure

Units 1 Licensee Event Report 2010-002-00

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB: NO. 3150-0104 EXPIRES: 08/							: 08/31/2010						
(9-2007) LICENSEE EVENT REPORT (LER)							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 Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), 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						
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1. FACILITY NA	ME								ET NUMBI	ER	3. PAGE		
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ABSTRACT (Lir	nit to 1400	spaces.	i.e., approxima	ately 1	5 single-sr	paced type	written l	ines)					
On February 2, 2010 at 1615, the Unit 1 Turbine Driven Auxiliary Feedwater (TDAFW) Pump was declared inoperable due to a high temperature identified on an electrical cable in the TDAFW Uninterruptible Power Supply (UPS) [UA]. The 1B Emergency Diesel Generator (EDG) had previously been removed from service for scheduled maintenance. As required by Technical Specification (TS) 3.8.1, "AC Sources – Operating," Required Action Statement, the Unit 1 B-Train Motor Driven Auxiliary Feedwater (MDAFW) Pump was declared inoperable at 2015 on February 2, 2010 due to the combination of its inoperable emergency power supply and inoperable redundant equipment. This resulted in two of three trains of Auxiliary Feed Water (AFW) being inoperable. Because two out of the three trains of AFW are required to meet flow requirements for limiting design basis accidents (DBA), this represents a condition that could have prevented the fulfillment of a safety function. Repairs to the electrical cable were immediately initiated. At 2216 on February 2, 2010 the Unit 1 TDAFW and 1B MDAFW Pumps were returned to operable status restoring the safety function. Thermography scan of Unit 2 UPS was completed with no indications of adverse wiring connections.													

NRC FORM 366A (9-2007) LICENSEE EVENT REPORT (LER) U.S. NUCLEAR REGULATORY COMMISSION CONTINUATION SHEET								
1. FACILITY NAME	2. DOCKET		6. LER NUMBER			3. PAGE		
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Westinghouse Pressurized Water Read Energy Industry Identification Codes are in <b>Description of Event</b> On February 2, 2010 at 1615, the Unit declared inoperable due to a high tem Uninterruptible Power Supply (UPS) [I previously been removed from services Specification (TS) 3.8.1, "AC Sources Motor Driven Auxiliary Feedwater (ME 2010 due to the combination of its inop equipment. This resulted in two of thr Because two out of the three trains of design basis accidents (DBA), this rep of a safety function. Repairs to the electrical cable were im TDAFW and 1B MDAFW Pumps were <b>Cause of Event</b> A routine preventive maintenance (PM)	dentified in the t 1 Turbine Dri perature ident UA]. The 1B E for scheduled – Operating," DAFW) Pump v perable emerg ee trains of Au AFW are requ oresents a con	ven Auxili ified on ar Emergency d maintena Required was declar jency pow uxiliary Fer ired to me dition that ated. At 2 perable st	ary Feedwate n electrical ca y Diesel Gen ance. As req Action State red inoperab er supply an ed Water (AF eet flow requi could have p 216 on Febru atus restorin	able in the erator (El juired by ment, the le at 2018 d inopera FW) being irements prevented uary 2, 20 g the safe	e TDAF DG) had Technic Unit 1 5 on Fe ble red g inoper for limit the ful	W d B-Trair bruary undant rable. ing fillment fillment tion.	n 2, t	

during the planned outage period for EDG 1B. During this routine PM, a high temperature spot was identified in the Unit 1 TDAFW UPS at one connection. Review of the crimped connection revealed an inadequate crimp at the connection of the lug to the end of the wire. This inadequate crimp compression did not allow the lug and wire to fasten at the proper compression to create the lowest resistance possible.

## Safety Assessment

The Farley onsite standby power source is provided from four EDGs (1-2A, 1B, 2B, and 1C). The continuous service rating of 1C EDG is 2,850 kW and 4,075 kW for EDGs 1-2A, 1B, and 2B. EDG 1-2A and 1-C are A-Train and EDGs 1B and 2B are B-Train. Farley also has a fifth diesel generator (2C) that serves as a station blackout diesel which can be manually aligned to supply B-Train power to either unit and power Loss of Site Power (LOSP) loads. The diesel generator 2C can provide backup power to the buses supplied by 1B EDG. Procedures are in place and operators are trained on starting the 2C diesel generator for alignment to the B-Train emergency buses.

The AFW System consists of two motor driven AFW pumps and one steam turbine driven pump configured into three trains. The pumps are equipped with recirculation lines to prevent pump operation against a closed system. Each motor driven AFW pump is powered from an independent Class 1E power supply and feeds all steam generators through a common header. The steam turbine driven AFW pump receives steam from two main steam lines upstream of the main steam

CONTINUATION SHEET           Interval interval         CONTINUATION SHEET           Interval         Control interval
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