

J. R. Johnson
Vice President - Farley

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July 21, 2010

Docket Nos.: 50-364

NL-10-1279

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

Joseph M. Farley Nuclear Plant – Unit 2
Licensee Event Report 2010-003-00
Power Supply to 1-2R Load Center Unavailability

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,

A handwritten signature in black ink that reads "J. R. Johnson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

J. R. Johnson
Vice President – Farley

JRJ/JLS

Enclosure: Unit 2 Licensee Event Report 2010-003-00

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cc: Southern Nuclear Operating Company

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. 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

**Joseph M. Farley Nuclear Plant – Unit 2
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Power Supply to 1-2R Load Center Unavailability**

Enclosure

Unit 2 Licensee Event Report 2010-003-00

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 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 2	2. DOCKET NUMBER 05000 364	3. PAGE 1 of 3
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4. TITLE
Power Supply to 1-2R Load Center Unavailability

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
08	05	2009	2010	- 003 -	00	07	21	2010		05000
									FACILITY NAME	DOCKET NUMBER
										05000

9. OPERATING MODE 1	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR§: (Check all that apply)									
10. POWER LEVEL 100	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)						
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)						
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)						
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)						
	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)						
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)						
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)						
<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER							
<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A							

12. LICENSEE CONTACT FOR THIS LER

NAME J. R. Johnson – Vice President	TELEPHONE NUMBER (Include Area Code) 334 899-5156
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13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

During the period between August 5 and August 9, 2009, the Unit 2 power supply to 1-2R 600 V load center (LC) did not meet the Unit 2 portion of Technical Specification (TS) 3.8.9 "Distribution Systems – Operating." This was discovered on August 9, 2009 when during routine surveillance for on-site AC distribution, the Unit 2 4160 V supply breaker DH08-2 to 1-2R 600 V LC was found in the open position. The 1C emergency diesel generator (EDG) was declared inoperable for Unit 2 due to the 4160 V supply breaker DH08-2 from Unit 2 being open, and the required action statement was entered on August 9, 2009 at 02:02. Subsequently, the 4160 V supply breaker DH08-2 was closed on August 9, 2009 at 03:36. The 4160 V supply breaker DH08-2 being open resulted in a failure to meet TS 3.8.9 limiting condition for operation (LCO) for maintaining two trains of AC vital bus electrical power distribution subsystems operable. The 1-2R 600 V LC did not meet its surveillance requirement of correct breaker position and voltage for longer than the allowed by TS.

The 4160 V supply breaker DH08-2 was left open due to omission of relevant information in procedures and the interpretation of LCO 3.8.9 that existed at the time.

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

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Joseph M. Farley Nuclear Plant Unit - 2	05000 364	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2	of 3
		2010	- 003	- 00		

NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

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

Description of Event

During the period between August 5 and August 9, 2009, the Unit 2 power supply to 1-2R 600 V load center (LC) did not meet the Unit 2 portion of Technical Specification (TS) 3.8.9 "Distribution Systems – Operating." This was discovered on August 9, 2009 when during routine surveillance for on-site AC distribution, the Unit 2 4160 V supply breaker DH08-2 [EB] to 1-2R 600 V LC was found to be in the open position. The 1C emergency diesel generator (EDG) [EK] power supply to the LC was declared inoperable for Unit 2 due to the 1-2R 600 V supply breaker from Unit 2 being open. Subsequently, the 4160 V supply breaker DH08-2 was closed. Subsequent evaluation and interpretation of limiting condition for operation (LCO) 3.8.9 resulted in the conclusion that with the 4160 V supply breaker DH08-2 open, TS 3.8.9 LCO for maintaining two trains of AC vital bus electrical power distribution subsystems operable was not met. The 1-2R 600 V LC did not meet its surveillance requirement of correct breaker position and voltage for longer than allowed by TS.

Cause of Event

The 1-2R 600 V LC was returned to service with the Unit 2 4160 V supply breaker, DH08-2, in the open position due to omission of relevant information in procedures. The 2H 4160 V bus was reenergized per operating procedure for the 4160 V AC distribution system. That procedure did not direct the closure of the 4160 V supply breaker DH08-2 directly, but instead referenced another procedure. The 4160 V supply breaker DH08-2 was not closed because LC was energized from its alternate source, which at the time was believed to be all that was required to make the LC Operable per TS and because additional work was scheduled the following week that required the LC to be on its alternate source.

A contributing factor was that the Licensee's interpretation of LCO 3.8.9 that existed at the time did not include a requirement to have both 4160 V supply breakers to the 1-2R LC closed.

Based on this, the 1-2R 600 V LC was left aligned to its alternate power supply. It was recognized that the 4160 V supply breaker DH08-2 would be left open and, after maintenance was complete, procedures would return the system to a normal lineup. It was not recognized that with the 4160 V supply breaker DH08-2 open, the 1-2R 600 V LC was not Operable in accordance with LCO 3.8.9.

Safety Assessment

This event had no adverse effect on the safety and health of the public.

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

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1-2A and 1-C are A-Train and EDGs 1B and 2B are B-Train. Farley also has a fifth diesel generator (2C), rated at 2,850 kW, that serves as a station blackout diesel and can be manually aligned to supply B-Train power to either unit and power loss-of-site-power (LOSP) loads.

During the time that EDG 1C was inoperable (August 5 to August 9, 2009) for Unit 2, the EDG 1-2A and EDG 2B were operable and available to support any event on Unit 2, and the diesel generator 2C was available. During the time that 1C EDG was inoperable for Unit 2, no events occurred which challenged the off-site power supplies. No safety system functional failures occurred. The 1-2R 600 V LC was aligned to its Unit 1 supply and the bus was energized to its proper voltage. Therefore, the safety and health of the public was not adversely affected.

Corrective Action

1. The 4160 V supply breaker DH08-2 was reclosed on August 9, 2009.
2. Procedures were revised such that the appropriate operability determination will be made for the 1-2R 600 V LC and to contain guidance to reclose the 4160 V supply breaker DH08-2, as well as explaining the LCO consequences of not closing the supply breakers to the 1-2R 600 V LC.

Additional Information

This LER is being submitted more than sixty-days after the event date due to the initial classification of this event by the licensee as non-reportable. The power-seeking function for the 1-2R 600 V LC was considered by the licensee to be a function associated with EDG 1C since the LC supplies the auxiliary loads for the EDG, thus the event was not reportable. Subsequently, the NRC determined that the power-seeking function was a part of the Electrical Distribution System (LCO 3.8.9). The NRC formalized their position in Inspection Report 2009-005.

Previous Similar Event: None.