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August 9, 2011

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Oconee Nuclear Station
Docket No. 50-269
Licensee Event Report 50-269/2011-05, Revision 0
Problem Investigation Program No.: O-11-7081

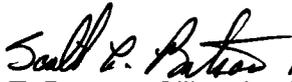
Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 269/2011-05, Revision 0, regarding the incorrect wiring of all four channels of power range nuclear instrumentation. This report is being submitted in accordance with 10 CFR 50.73 (a)(2)(v)(D). This event is considered to have no consequence with respect to the health and safety of the public.

Other than the commitment to submit a LER supplement, there are no regulatory commitments contained in this report. Duke Energy Carolinas, LLC, expects to provide the supplement within 60 days, but does not consider that time frame to be a commitment.

Any questions regarding the content of this report should be directed to Sandra N. Severance, Oconee Regulatory Compliance, at 864-873-3466.

Sincerely,


T. Preston Gillespie, Jr.
Vice President
Oconee Nuclear Site

Attachment

JE22
NRR

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August 9, 2011

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cc: Mr. Victor McCree
Administrator, Region II
U.S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE, Suite 1200
Atlanta, GA 30303-1257

Mr. John Stang
Project Manager
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Mr. Andrew Sabisch
NRC Senior Resident Inspector
Oconee Nuclear Station

INPO (Word File via E-mail)

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

1. FACILITY NAME Oconee Nuclear Station, Unit 1	2. DOCKET NUMBER 05000269	3. PAGE 1 OF 1
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4. TITLE
Reactor Protection System Overpower Flux/Flow Imbalance Channels Inoperable

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
6	10	2011	2011	005	00	8	9	2011	None	05000
									FACILITY NAME	DOCKET NUMBER
									None	05000

9. OPERATING MODE 1	11. REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)									
	<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)						
10. POWER LEVEL 48	<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 type="checkbox"/> 50.73(a)(2)(i)(B)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A							

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME Sandra N Severance	TELEPHONE NUMBER (Include Area Code) (864) 873-3466
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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 checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input type="checkbox"/> NO	15. EXPECTED SUBMISSION DATE MONTH: 10 DAY: 09 YEAR: 2011
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16. ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

During startup from Refueling Outage 1EOC26 for Unit 1 on 6/10/2011, during which implementation of the digital Reactor Protection System/Engineered Safeguards (RPS/ES) upgrade was performed, and after increasing power to 48 percent, Reactor Engineering questioned the RPS power range nuclear instrumentation (NI) that, although appearing to respond appropriately for total reactor power, did not appear to be responding adequately to power imbalance differences.

Investigation into the cause of the Unit 1 NI imbalance indications revealed that the triaxial cables for the top and bottom detector NI signals were reversed at the RPS Power Range Test Module for each RPS channel. At 0802 on 6/10/2011, the four channels were declared inoperable. This resulted in a loss of safety function per 10 CFR 50.73(a)(2)(v)(D) and Technical Specification 3.3.1, Conditions B and C were entered.

This event was reported via an 8-hour notification per 10 CFR 50.72(b)(3)(v)(D) on 6/10/2011 (Event Report 46947). The triaxial cable connections were corrected and the RPS channels were declared operable at 1511 on 6/10/2011. Evaluation of this event is ongoing regarding the inoperability of these channels. The results of this evaluation will be reported in the supplement to this report. This event is considered to have no consequence with respect to the health and safety of the public.