



BRUCE H HAMILTON
Vice President
Oconee Nuclear Station

Duke Energy Corporation
ON01VP / 7800 Rochester Highway
Seneca, SC 29672

864 885 3487
864 885 4208 fax
bhhamilton@duke-energy.com

April 16, 2007

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269,-270
Licensee Event Report 269/2007-01, Revision 0
Problem Investigation Process No.: O-07-0940 and
O-07-0941

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a)(1) and (d), attached is Licensee Event Report 269/2007-01, Revision 0, regarding reactor trips at Oconee Nuclear Station Units 1 and 2 on February 15, 2007. This report will be supplemented.

This report is being submitted in accordance with 10 CFR 50.73 (a)(2)(iv)(A).

This event is considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

Bruce H. Hamilton, Vice President
Oconee Nuclear Site

Attachment

Document Control Desk

Date: April 16, 2007

Page 2

cc: Mr. William D. Travers
Administrator, Region II
U.S. Nuclear Regulatory Commission
61 Forsyth Street, S. W., Suite 23T85
Atlanta, GA 30303

Mr. L. N. Olshan
Project Manager
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Mr. D. W. Rich
NRC Senior Resident Inspector
Oconee Nuclear Station

INPO (Word File via E-mail)

Date: April 16, 2007

Page 3

bx: ONS Site:

Document Control (Master File)*	PIP FILE*
Site PORC Members	
RGC MGR/B.G. Davenport	
RGC: Commitment Index/J.E. Smith#	LER Book*#
WOE Mgr/S. J. Magee	
OPS-Procedures/D.B. Coyle#	
Work Control:D.V. Deatherage#	
Site Engineering:	
W.B. Edge#	T.A. Ledford#
K.R. Alter#	R.J. Freudenberger#
M. Bailey#	
EPIX Cord/R.E. Harris	

GO:

NRIA/R.L. Gill *	
ELL/EC050*	NSRB/E.B. Kulesa/EC05N*
NGO/SAA:D.J. Herrick	C.M. Misenheimer#
NGO/SA/S.B. Thomas	
NGO Serv: R.G. Hull#	
LEGAL/L.F. Vaughn*	RATES/S.L. Collis#

CNS:

SA MGR/J.R. Ferguson, Jr.	RGC MGR/R.D. Hart
---------------------------	-------------------

MNS:

SA MGR/J. A. Kammer	RGC MGR/K.L. Ashe
OPS Mgr/S.L. Bradshaw#	

Non-routine Recipients:

None

* - Hardcopy - All others by E-Mail Distribution

- Copied By Request: - All others by Directive

(Revised 1-22-2007)

1. FACILITY NAME Oconee Nuclear Station, Unit 1	2. DOCKET NUMBER 05000- 0269	3. PAGE 1 OF 1
---	--	--------------------------

4. TITLE
Dual Unit Trip from Jocassee Breaker Failure

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MO	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO	MO	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
02	15	2007	2007	- 01	- 0	04	16	2007	Unit 2	05000- 0270
									None	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 checked="" 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 type="checkbox"/>	50.73(a)(2)(v)(D)	<input type="checkbox"/>	Specify in Abstract below or in NRC Form 366A		

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME B.G. Davenport, Regulatory Compliance Manager	TELEPHONE NUMBER (Include Area Code) (864) 885-3044
--	--

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED				15. EXPECTED SUBMISSION DATE		
<input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input type="checkbox"/> NO	MONTH	DAY	YEAR		
		06	14	2007		

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

On February 15, 2007 at 1654 hours, a breaker failure occurred in the Jocassee Hydro Station switchyard, causing one phase to fault to ground. The phase-to-ground fault was isolated at the Oconee 230 KV switchyard, but the resulting prolonged (less than 1 second) grid disturbance led to a trip of Oconee Units 1 and 2. A wiring design error on the loss-of-excitation relays caused a generator lock-out, turbine trip, and bus transfer from normal to startup sources on Oconee Units 1 and 2. Both reactors were subsequently tripped by the reactor coolant pump power monitors, which correctly sensed the voltage transient and resultant power sag. Incorrect settings on the auxiliary switch fast contacts of the normal main feeder bus breakers caused a slow bus transfer of 4160 volt loads on Oconee Unit 1, leading to a loss of normal feedwater flow. This necessitated cooldown to Mode 4, which was accomplished by procedure with emergency feedwater and atmospheric dump valves. Unit 2 secondary systems performed as expected and cooldown of the unit to Mode 3 proceeded normally. Appropriate post-trip reviews were performed and recovery actions completed per station procedures. Unit 2 was returned to power operation on February 19, 2007 and Unit 1 returned to service on February 23, 2007.

This event is considered to have no significance with respect to the health and safety of the public.