

# CATEGORY 1

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9905030125      DOC.DATE: 99/04/26      NOTARIZED: NO      DOCKET #  
FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.      05000269  
50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.      05000270  
50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.      05000287

AUTH.NAME      AUTHOR AFFILIATION  
MCCOLLUM, W.R.      Duke Power Co.  
RECIP.NAME      RECIPIENT AFFILIATION  
                  Records Management Branch (Document Control Desk)

*See Proposed  
Change to  
Tech spec*

SUBJECT: Application for amends to licenses DPR-35, DPR-47 & DPR-55,  
proposing methodology for determining SG tube loads  
following MS line break & runout protection for TDEFWP.

DISTRIBUTION CODE: A001D      COPIES RECEIVED: LTR 1 ENCL 1      SIZE: 5+87  
TITLE: OR Submittal: General Distribution

### NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	LPD2-1 LA	1	1	LPD2-1 PD	1	1
	LABARGE, D	1	1			
INTERNAL:	ACRS	1	1	<del>FILE CENTER - 01</del>	1	1
	NRR/DE/EMCB	1	1	NRR/DE/EMEB	1	1
	NRR/DSSA/SPLB	1	1	NRR/DSSA/SRXB	1	1
	NRR/SPSB JUNG, I	1	1	NUDOCS-ABSTRACT	1	1
	OGC/HDS2	1	0			
EXTERNAL:	NOAC	1	1	NRC PDR	1	1

**MICROFILMED**

NOTE TO ALL "RIDS" RECIPIENTS:  
PLEASE HELP US TO REDUCE WASTE. TO HAVE YOUR NAME OR ORGANIZATION REMOVED FROM DISTRIBUTION LISTS  
OR REDUCE THE NUMBER OF COPIES RECEIVED BY YOU OR YOUR ORGANIZATION, CONTACT THE DOCUMENT CONTROL  
DESK (DCD) ON EXTENSION 415-2083

TOTAL NUMBER OF COPIES REQUIRED: LTR 14 ENCL 13

C  
A  
T  
E  
G  
O  
R  
Y  
1  
D  
O  
C  
U  
M  
E  
N  
T



Duke Energy Corporation

Oconee Nuclear Station  
P.O. Box 1439  
Seneca, SC 29679

(864) 885-3107 OFFICE  
(864) 885-3564 FAX

W. R. McCollum, Jr.  
Vice President

April 26, 1999

U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001  
ATTENTION: Document Control Desk

SUBJECT: Duke Energy Corporation  
Docket No(s). 50-269, -270, -287  
Oconee Nuclear Station Units 1, 2, and 3  
Proposed Amendment to the Facility Operating  
License Regarding Methodology for Determining  
Steam Generator Tube Loads Following a Main Steam  
Line Break and Runout Protection for the Turbine-  
Driven Emergency Feedwater Pump (TSC-99-01)

Pursuant to 10 CFR 50.90, this letter submits a License Amendment Request (LAR) for Facility Operating License Nos. DPR-38, DPR-47, and DPR-55 for Oconee Nuclear Station Units 1, 2, and 3, respectively. This LAR provides a method for obtaining a Nuclear Regulatory Commission (NRC) review of: 1) the analytical details regarding a revised methodology for determining steam generator tube loads following a main steam line break (MSLB); and 2) the crediting of the MSLB detection and feedwater isolation instrumentation as a means for providing runout protection for the turbine-driven emergency feedwater (EFW) pump.

On October 20, 1997, Duke submitted a LAR to support a re-roll process to repair defects in the upper tube sheet roll area. This was based in part on Framatome Technology Inc. (FTI) topical report BAW-2303P, Revision 3, "OTSG Repair Roll Qualification Report." This topical report included an Oconee-specific MSLB steam generator tube load of 2376 lbf, which was inconsistent with the previous generic load of 3140 lbf provided in the previous topical report (BAW-10146). The NRC questioned this inconsistency in a request for additional information dated October 30, 1997. Duke clarified this discrepancy by noting that the new loads were calculated using more recent analyses and analytical tools in a response dated November 3, 1997. On November 21, 1997,

11

A001

9905030125 990426  
PDR ADOCK 05000269  
P PDR

the NRC issued a license amendment regarding the Duke request of October 20, 1997. However, as had been the case historically with other changes to the Technical Specification requirements regarding steam generator inspections, the details of the thermal-hydraulic analyses supporting the steam generator tube loads were not considered during the review.

Currently, operator action is required to prevent runout of the turbine-driven EFW pump following a MSLB. In this LAR, Duke is requesting the ability to credit the MSLB detection and feedwater isolation instrumentation as an additional means of runout protection of the turbine-driven EFW pump following a MSLB or certain main feedwater (MFW) line breaks.

This LAR contains the following attachments:

Attachment 1 provides the retyped pages of the Improved Technical Specifications (ITS) and Bases.

Attachment 2 provides the marked-up pages of the Improved Technical Specifications and Bases.

Attachment 3 provides marked-up pages of the Updated Final Safety Analysis Report (UFSAR).

Attachment 4 provides the description and technical justification of the proposed changes to the ITS, ITS Bases, and UFSAR required to reflect the revised steam generator tube stress analysis.

Attachment 5 provides the description and technical justification of the proposed changes to the ITS Bases required to reflect the crediting of the MSLB detection and feedwater isolation instrumentation as a means of providing runout protection for the turbine-driven EFW pump.

Attachment 6 documents the determination that the amendment contains No Significant Hazards Considerations pursuant to 10 CFR 50.92.

U. S. Nuclear Regulatory Commission

April 26, 1999

Page 3

Attachment 7 provides the basis for the categorical exclusion from performing an Environmental Assessment/Impact Statement pursuant to 10 CFR 51.22(c)(9).

In accordance with Duke administrative procedures and the Quality Assurance Program Topical Report, this LAR has been previously reviewed and approved by the Oconee Plant Operations Review Committee and the Duke Corporate Nuclear Safety Review Board.

Pursuant to 10 CFR 50.91, a copy of this LAR is being sent to the State of South Carolina.

Inquiries on this matter should be directed to J. E. Burchfield, Jr. at (864) 885-3292.

Very truly yours,



W. R. McCollum, Jr., Site Vice President  
Oconee Nuclear Site

Attachments

U. S. Nuclear Regulatory Commission

April 26, 1999

Page 4

xc w/attachments:

L. A. Reyes

U. S. Nuclear Regulatory Commission

Regional Administrator, Region II

Atlanta Federal Center

61 Forsyth St., SW, Suite 23T85

Atlanta, GA 30303

D. E. LaBarge

NRC Senior Project Manager (ONS)

U. S. Nuclear Regulatory Commission

Mail Stop O-14H25

Washington, DC 20555-0001

M. A. Scott

Senior Resident Inspector (ONS)

U. S. Nuclear Regulatory Commission

Oconee Nuclear Site

V. R. Autry, Director

Division of Radioactive Waste Management

Bureau of Land & Waste Management

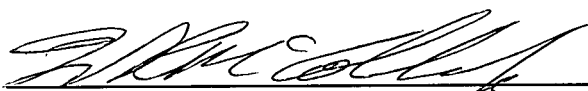
Department of Health & Environmental Control

2600 Bull Street

Columbia, SC 29201

AFFIDAVIT

W. R. McCollum, Jr., being duly sworn, states that he is Site Vice President of Duke Energy Corporation; that he is authorized on the part of said corporation to sign and file with the Nuclear Regulatory Commission this revision to the Oconee Nuclear Station License Nos. DPR-38, DPR-47, and DPR-55; and that all statements and matters set forth therein are true and correct to the best of his knowledge.

  
\_\_\_\_\_  
W. R. McCollum, Jr., Site Vice President

Subscribed and sworn to me: 4-26-99  
Date

Notary Public: Conice M. Breayale

My Commission Expires: 2-12-2003  
Date

SEAL