

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9201280170 DOC. DATE: 92/01/22 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
 HAMPTON, J.W. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards calculation entitled, "Leak Rate of Rolled Orifice Plug," in support of 911121 request for confirmation of interpretation of TS 4.17.5.f for repair of SG explosive plugs. Calculation withheld.

DISTRIBUTION CODE: AP01D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2+14
 TITLE: Proprietary Review Distribution - Operating Reactor

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD2-3 LA	1 1	PD2-3 PD	1 1
	WIENS, L	3 3		
INTERNAL:	ACRS	6 6	AEOD/DOA	1 1
	OGC/HDS2	1 0	REG FILE	1 1
EXTERNAL:	NRC PDR	1 0		

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 15 ENCL 13

*MA
LAW*

R
I
D
S
/
A
D
D
S

R
I
D
S
/
A
D
D
S

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

(803)885-3000



DUKE POWER

January 22, 1992

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

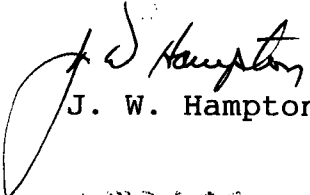
Subject: Oconee Nuclear Station, Units 1, 2, and 3
Docket Nos. 50-269, 50-270, 50-287
Additional information for repair of SG Explosive
Plugs by use of Orifice Plugs; Interpretation of
Technical Specification 4.17.5.f

Enclosed is the additional information that you requested in your letter of November 21, 1991. Please note that Attachment 1, BWNT Document 32-1174827-04, Leak Rate of Rolled Orifice Plug, is considered "Proprietary" by B&W and an affidavit supporting this will be forthcoming from B&W. The assumptions used in the calculation of the EAB thyroid dose and primary to secondary leakage rates verses number of tubes with orifice leakage is described in Attachment 2.

The information in Attachment 1 shows that for the most limiting case of .25 in. plug thickness and secondary pressure at 0 psig the leak rate would be 310.7 gpd (page 11 of 12) which corresponds to .2157 gpm. Attachment 2 shows that the total primary to secondary leakage is just a small fraction of that described in the FSAR Chapter 15.13 MSLB Accident for the 1 SG tube rupture case. This also conservatively assumes that all of the affected explosive plugs fail.

This additional information is provided at the request of the NRC in support of Duke Powers' request for confirmation of an interpretation of Technical Specification 4.17.5.f. If there are any questions or concerns regarding this information, please contact Mark E. Patrick at (803) 885-3292.

Very truly yours,


J. W. Hampton

9201280170 920122
PDR ADOCK 05000269
P PDR

AP01
11

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
January 22, 1992
Page 2

MEP

xc: D. F. Mezzano
B & W Nuclear Service Co
3110 Odd Fellows Road
Lynchburg, VA 24501-5010

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Division
Suite 525
1700 Rockville Pike
Rockville, Maryland 20852