REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION FACIL:50 50 AUTH.NA TUCKER,H RECIP.N DENTON,H STOLZ,J	N NBR:8503070 0-269 Oconee 1 0-270 Oconee 1 0-287 Oconee 1 AME AU 4.8. Duko NAME REI 4.R. Off .F. I	339 Nucle Nucle THUR Pow CIPIE ice o Opera	DOC.D ar Stat ar Stat ar Stat AFFILIA er Co. NT AFFI T Nucle ting Re	ATE: ion, ion, TION LIATI an Re	85/02/28 Unit 1, [Unit 2, [Unit 3, [ON eactor Reg	NOTAF Duke Po Duke Po Duke Po gulatio	RIZED ower (ower (ower (: NO Co. Co. Trector	•	DOCKET # 05000269 • 05000270 05000287
SUBJECT: DISTRIBU	: Forwards re: 840814 requi telcon.W/set Aperture ca JTION CODE: A DR Submittal:	spons ests ven o rds a 006D Fire	e to re for exe versize vailabl COPIES Protec	quest mptic draw e in RECE	s for add ons to 100 ings,incl PDR, IVED:LTR	I info CFR50, Iuding	o re l App R one	831111 per 85 illegik SIZE:	8 50103 51e+	4+6
NOTES:A	EOD/Ornstein:: :02/06/73	Lcy.								05000269
AE	OD/Ornstein:	lcy.								05000270
	_:10/06/73 EOD/Ornstein::	icy.								05000287
01	.:07/19/74									
	RECIPIENT ID CODE/NAM NRR ORB4 BC	01	COPIES LTTR E 3	NCL 3	RECIP ID COD	PIENT DE/NAME		COPIE LTTR E	S Encl	
INTERNAL:	ACRS	11	3	3	ADM/LFM	4B		1	0	
	ELD/HDS4		1	0	IE WHIT	INEY,L		1	1 -	
	NRR HOLONICH	07	2	2	NRR WAN	ABACH	06	1	0	
	NRR/DE/CEB	09	2	2	NRR/DL	DIR		1	1	

REG FILE RGN2 EXTERNAL: LPDR NRC PDR NSIC

NOTES:

enture Card Dist. Drawings to: H. Nicolaras ORB#4

DUKE POWER COMPANY P.O. BOX 33189 CHARLOTTE, N.C. 28242

HAL B. TUGKER vice president nuclear production

February 28, 1985

TELEPHONE (704) 373-4531

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Mr. J. F. Stolz, Chief Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station Docket Nos. 50-269, -270, -287

Dear Sir:

By letter dated October 24, 1983, Duke Power Company requested an exemption to 10 CFR 50, Appendix R, and indicated that as a result of an on-going interval review, additional exemption requests would be forthcoming. Accordingly, additional exemption requests were submitted by my letters dated November 11, 1983 and August 14, 1984.

On January 3, 1985 a conference call was held between members of my staff and your staff to discuss Duke's exemption requests submitted by the November 11, 1983 and August 14, 1984 letters. During the conference call, your staff requested additional information in order to assist them in completing their review of the exemption requests. Pursuant to this request, Enclosure 1 and Enclosure 2 (Attached) provide the additional information. This information should enable the staff to complete their review of the exemption requests.

In addition, by a letter dated September 21, 1984, Duke advised the NRC that a test of a "mock-up" of the fire barrier wall separating the east and west penetration rooms at Oconee Nuclear Station (the wall) was being performed in order to qualify it as a three-hour fire rated barrier. The test report which documents the results of this test is currently being prepared. The test report will be transmitted to the NRC for their review when it becomes available. At which time, exemption requests 1 and 2 of the November 11, 1983 submittal will be formally withdrawn, inasmuch as the configuration now has been explicitly tested.

Very truly yours,

H.B. Tucher 1 Mil

Hal B. Tucker

PFG:slb

Enclosure

8503070339 850228 PDR ADOCK 05000269 F PDR



Mr. Harold R. Denton, Director February 26, 1985 Page Two

٠

.

cc: Ms. Helen Nicolaras Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

> Mr. J. C. Bryant NRC Resident Inspector Oconee Nuclear Station

Dr. J. Nelson Grace, Regional Administrator U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

ENCLOSURE 1

Duke Power Company Oconee Nuclear Station

Request for Additional Information Concerning the November 11, 1983 Exemption Request to 10CFR50, Appendix R, Section III.G.2

Exemption Request 1 and 2 - additional information

Duke has conducted a fire endurance test of a pyrocrete wall assembly similar to the tube steel/pyrocrete walls constructed to separate East/West Penetration rooms at each unit. With addition of through-bolts in Mechanical and Electrical Penetration Seals, the assemblies will meet Appendix R requirements (Section III.M). Duke intends to modify the wall for each unit to install the through-bolts. When the test report is submitted to the NRC, Exemption Requests 1 and 2 will be withdrawn.

Exemption Request 3 - additional information

Item #3

Attached (Attachment 1) are two elevation drawings and one plan view drawing (at elevation 809'+0) showing location of cork filler material in the seismic expansion joint. Duke is requesting exemption from requirements of Appendix R, Section III.G.2.a, for separation of the East/West Penetration rooms.

Cork filler is installed in the seismic expansion joint between Auxiliary Building floor slabs and the Reactor Building wall. A three hour fire resistive wall assembly has been constructed to separate East/West Penetration rooms. Cork is embedded in concrete slabs above and below the wall assembly adjacent to Reactor Building walls. There are three inches of exposed cork surface. In other areas on the elevation beneath the wall which separates the East/West Penetration rooms for each unit, automatic sprinklers are provided which mitigate the possibility of fire spread from the area below. There are no in situ combustible material in close proximity to the cork filler material as it passes above the below the wall separating East/West Penetration rooms, which would contribute to the possibility of igniting cork material. Penetration rooms are large volume areas with about 25 foot ceilings, in which case heat from a fire plume in either Penetration room would tend to expand throughout the area and be dissipated rather than concentrating at the three inches of exposed cork filler material.

In addition, the area above East/West Penetration rooms contains air handling equipment. The combustible loading is small (consisting of exposed plastic cable insulation for fan motors, lights, etc.). There are no combustible materials in close proximity to the three inches of exposed cork which could contribute to ignition of the cork. Thus, a fire is not expected to spread between redundant Penetration rooms via cork embedded in floor and ceiling slabs above and beneath the fire-rated wall which separates the East/West Penetration rooms. Fire hoses and portable fire extinguishers are available to suppress a fire in this area.

Exemption Request 4 - additional information

A detailed description was provided by a April 30, 1981 letter from H. B. Tucker to H. R. Denton and in the November 11, 1983 letter. During a March 29, 1983 meeting in Bethesda, Maryland between Duke and NRC, photographs were reviewed but were not provided. These photographs showed the Standby Shutdown facility (SSF) cable arrangement, location of equipment and cable in the Unit 3 Reactor Building. The photographs reviewed during the March 29, 1983 meeting are attached (Attachment 2). Attachment 3 provides a set of drawings marked to identify the location of the photograph and a brief description of each photo-graph.

Based on the above information and previously provided information, an exemption from the requirements of Appendix R, Section III.G.2.d is appropriate. In particular, this pertains to request for exemption from requirements of Appendix R for:

- 1. Separation of redundant pressurizer level instruments by less than 20 feet;
- 2. Separation of redundant systems and equipment needed to achieve hot shutdown condition by 20 feet without intervening combustibles.

Attachment 1 to Enclosure 1



:





Attachment 2 to Enclosure 1

ł,





































































Attachment 3 to · Enclosure 1

.

ATTACHMENT 3

Drawing No.: 0-950

Slide No.

1 and 2	At Unit 1 Reactor Building looking south at the SSF.
3	View inside the Cable Trench.
4	Branch trench at Unit 2 (Cables to the Penetration Room).

Drawing No.: 0-2913, 0-2913B

5 and 6 Penetration and WD-1 and 2, WD-2 used for SSF.

- 7 and 8 WA-10 and 11
- 9 and 10 WA-3

Drawing No.: 0-2886

11 SSF cables for Instrumenation Valves, RC Makeup Pump.

12 and 13 Cables for Pressurizer Heater, Valves, Instrumentation.

Drawing No.: 0-2885

- 14, 15, Six inch tray carries instrumentation cables around to the East Side for A-Generator.
 17 Incore Instrumentation Tank
- 183PT-225 RC Loop A-Pressure Transmitter [Plant Shutdown -
3PT-18P (0-2886)]

Drawing No.: 02884

19 Tray into the basement of Containment.

- 20 and 21 View looking towards the Normal Sump Area.
- 22 Looking out from the Normal Sump where SSF tray turns thru the Secondary Shield Wall.

<u>Slide No.</u>

Drawing No.: 02884 (cont.)

23 and 24	Tray
25	Tray around the Emergency Sump
26	Tray over the Incore Instrumentation Cable Chase.
27	RC Makeup Pump.
28	3LT-67 = Steam Generator B Level Transmitter (Normal Plant - 3LT-81 for B Generator)
	[For A Generator Shutdown = 3LT-80 or 3LT-66 for the SSF]
29	3LT-224 and 3LT-72 = Pressurizer Level Transmitters [Normal Plant Shutdown - 3LT-4P1 - from East Penetrations, (0-2885) also 3LT-4P2 and 3LT-4P3]
30 and 31	Trays on the East Side.
32	3FT-157 = RC Makeup Pump Flow Transmitter .

Drawing No.: 0-2887

33 and 34	Operating Floor, El. 844' + 6", 1-Tray in Dome Area.
35	Looking up towards Dome.
36	Looking up towards Dome.