

Docket 216

September 28, 1976

NRC FORM 197 (8-76)	U.S. NUCLEAR REGULATORY COMMISSION TECHNICAL ASSIGNMENT CONTROL FORM	167119
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ACTION NEW ASSIGNMENT <input type="checkbox"/>	NEW INFORMATION <input type="checkbox"/>	ADDITIONAL INFORMATION REQUESTED <input type="checkbox"/>	CANCELLATION <input type="checkbox"/>	COMPLETION <input type="checkbox"/>
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SECTION I. REQUEST DATA		(AD) DATE PREPARED 04 10 1977	MO. DAY YR. 04 10 1977
PREPARED BY: NEIGHBORS (PM) & SCHWENCER (BC) AS		(AZ) DOR CODE 1 1 1 1 3	
(AE/AF) TITLE/GENERAL DESCRIPTION (Limit to 120 characters) OCONEE 1, 2, 3 - REACTOR VESSEL MATERIAL SURVEILLANCE PROGRAM		(AH) REQUESTING TARGET DATE 05 1 1977	
(AG) REQUEST CONTACT DON NEIGHBORS	(AB) REQUESTING ORGANIZATION ORB 1	(AI) OR CONTROL NUMBER	
(AJ/AK) REQUESTING REMARKS (Limit to 120 characters) SEE ATTACHED		(AM) STANDARDS TASK NUMBER	

SYSTEMS CONTROL DATA			
FACILITY NAME(S) (1) OCONEE UNIT 1 (2) OCONEE UNIT 2 (3) OCONEE UNIT 3	(BA) DOCKET(S) 050-00 (4) 050-00 (5) 050-00 287 (6)	FACILITY NAME(S)	(BA) DOCKET(S) 050-00 050-00 0
VENDOR'S NAME		REPORT IDENTIFICATION SYMBOL (DA) PROPRIETARY (P) (EA) NON-PROPRIETARY VERSION (NP) (FA) NON-PROPRIETARY REPORT	
(AR) REPORT DATE:	MO. DAY YR.	(AS) ADDITIONAL INFORMATION REQUEST DATE:	MO. DAY YR.
(AT) SUBMIT DATE:	MO. DAY YR.	(AU) LETTER TO VENDOR DATE:	MO. DAY YR.
		(AV) ACCEPTED <input type="checkbox"/> NOT ACCEPTED <input type="checkbox"/> WITHDRAWN <input type="checkbox"/>	

SECTION II REVIEW DATA											
(AC) TYPE OF WORK (Enter an "S" for Safety Related or an "E" for Environment Related)											
POST CP	(PC)	TOPICAL REPORT REV.	(TR)	RESEARCH ACTIVITIES	(RA)	INDUSTRY CODES & STD.	(IC)	CORRESPONDENCE	(CR)	REG. GUIDES & STD. REV.	(GR)
		CONTRACT MGMT.	(CM)	TECH. PROJ. SHORT LS	(ST)						
		NON-REACTOR REV.	(NR)	TECH. PROJ. LONG LS	(LT)						
PLANT SURVEILLANCE	(PS)	REEVALUATION REVIEWS	(RR)	DOR TECH. PROJ.	(TP)			PROMPT ACTION	(PA)		
EVENT FOLLOWUP	(EF)	OTHER	(OT)								
ASSIGNED ORGANIZATION ("X" appropriate column)											
LWR 1	LMFB	ADQA	EB	MTEB	ADRS	CBB	AAB	ADST			
LWR 2	SRB	ORB1	RS	SEB	APCB	ADET	ETSB	DPM			
LWR 3	OLB	ORB 2	PSB	ADE	CSB	EPB 1	RAB	DOR			
LWR 4	ADSP	ORB 3	EEB	RSB	EICB	EPB 2	ADSA	DSS			
ADLR	QAB	ORB 4	ADOT	CPB	ADPS	EPB 3	GSB	DSEA			
	ISEB	ADOR	MEB	AB	ESB	ADEP	HMB				
REVIEWER'S SURNAME Neighbors ZWETZIG		(CA) REVIEWER'S INITIALS J.D.N. G.B.Z.	(CB) ESTI-MATED HOURS	COMPLETION DATE (CC) ESTIMATED (CD) ACTUAL		BRANCH COORDINATING LEAD RESPONSE RESPOND INDIVIDUALLY <input type="checkbox"/>		COPIES TO: 1. REQUESTER 2. MIPC/PROCESSING & PROGRAMMING BRANCH 3. REVIEWING BRANCH			

APR 1 1977

- Basis for Request:
- a. Generic Issue - Reactor Vessel Material Surveillance Program
 - b. Duke Power Company (DPC) letter dated March 10, 1977.

Licensing Action Planned: Issue SER addressing acceptability of the Surveillance Program and amend license to incorporate proposed Technical Specification as appropriate.

Scope of Review: In a manner similar to the review performed for Arkansas, perform a review of the DPC submittal for acceptability and provide a written SER.

The suspense date of May 15, 1977 was chosen to allow issuance of the amendment prior to Oconee Unit 1 startup early in July.

Jerry Swetzig is lead engineer on the generic aspects of this review.

DOCKETS NOS.: 50-269/270/287 DATE: APR 1 1977

LICENSEE: Duke Power Company (DPC)

FACILITY: Oconee Nuclear Station

SUMMARY OF MEETING HELD ON MARCH 23, 1977, CONCERNING THE JOCASSEE DAM

On March 23, 1977, we met with representatives of Duke Power Company and its consultants concerning the Jocassee Dam and the seismic activity in the Jocassee Dam area. The meeting was held at the Jocassee Dam.

A list of attendees is attached.

The discussions of the meeting basically followed the agenda set forth in the meeting notice and as attached. Duke Power Company made presentations covering the pertinent items of discussion.

The ultimate goal of this meeting was to obtain information concerning the Jocassee Dam and the related seismic activity and to establish monitoring requirements for the seismic activity in the area of the dam with appropriate reporting of unusual or abnormal activity to NRC as soon as possible. Duke Power Company proposed a seismic network of at least four stations in the Jocassee environs and reports to NRC when an earthquake of magnitude greater than 3.0 or more than 100 events per week are observed. We stated that we wanted to consider this proposal and would inform DPC of any additional requirements we feel necessary. In the interim, DPC will report as it proposed.

We requested DPC to provide a short term report summarizing the information to date using the meeting agenda as an outline. DPC agreed to this and we agreed to provide DPC a letter indicating the type of information we feel should be in the report.

We also stated that a long term report may be desired at the end of the monitoring program depending on the results of the program.

D. Neighbors, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
List of attendees

cc w/encl: See next page

OFFICE >		DOR:ORB#1		
SURNAME >		DNeighbors:lb		
DATE >		4/01/77		

Meeting Summary for
Duke Power Company

- 2 -

APR 1 1977

Docket File
NRC PDR
LOCAL PDR
ORB#1 Reading
NRR Reading
B. C. Rusche
E. G. Case
V. Stello
K. R. Goller
D. Eisenhut
T. J. Carter
A. Schwencer
D. Ziemann
G. Lear
R. Reid
R. Clark
L. Shao
R. Baer
W. Butler
B. Grimes
Project Manager
Attorney, OELD
OI&E (3)
S. M. Sheppard
Participants (NRC)
R. Fraley, ACRS (16)
T. B. Abernathy
J. R. Buchanan



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DOCKETS NOS.: 50-269/270/287 DATE: APR 1 1977

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D. Neighbors

D. Neighbors, Project Manager
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
List of attendees

cc w/encl: See next page

NRC MEETING WITH DUKE
POWER COMPANY

MARCH 23, 1977

ATTENDANCE LIST

NRC

D. Neighbors
C. Stepp
R. Jackson
J. Kelleher
L. Heller
D. Simpson (NRC Consultant)

DPC

L. Dail
M. Tuckman
L. Bare
R. Bond
R. Bhatnagar
E. Gladden
D. Stone
F. Chambers

DPC Consultants

T. Long (Ga. Tech)
G. Sowers (Law Engineering)
G. Fogle (Law Engineering)
C. Sams (Law Engineering)
P. Falwani (Univ. of S. Carolina)
W. Conn
P. Leary (Princeton Univ.)

APR 1 1977

DISCUSSION ITEMS
FOR
MEETING WITH DUKE POWER COMPANY
OCONEE/JOCASSEE DAM

1. Geology and Seismology Staff Objectives
2. Specifics of Seismic Network Operation
 - a. Station locations
 - b. Network capability - magnitude and threshold, distance and depth capability
 - c. Discussion of hypocentral activity since July 1976, including focal plane solutions
 - d. Reporting procedures to NRC staff
3. Specific Information on Geologic Reconnaissance of Site Area
 - a. Location of discovered faulting
 - b. Basis of fault age dating
 - c. Available photos of dam abutments and foundation
 - d. Subsurface geology - models
4. Reservoir-Induced Seismicity
 - a. Similarities - difference Jocassee to known damaging earthquakes
5. Seismic Adequacy of Dam
 - a. Construction progress photos/airphotos
 - b. Groundwater elevation before/after dam filling (time-head plots)
 - c. Embankment construction specifications (engineering properties for design and basis, density, gradation of all zones, settlement and alignment of crests and slope as a function of time)

- d. Seepage rates (relief wells, weirs, drains)
- e. Simple strain computations to assess approach to threshold of cracking core
- f. History of inspections and repairs to date
- g. Sensitivity of dam to surface fault movement (thickness and location of filters, strain distribution - rough calculations)
- h. Time - acceleration plot of expected earthquake (reference .12 g for 5.6 M_L earthquake - considerations, basis justification)

We request personnel that can discuss the above items and other related peripheral items be present at the meeting. This should include the seismological consultants and dam engineers.