

W 04/20/78

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50-269/270/287

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DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

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LTR 1 ENCL 1

FORWARDING TABLES PROVIDING UPDATED STATUS OF THE SEISMIC QUALIFICATION OF
THE OVERHEAD TRANSMISSION PATH FROM KEOWEE HYDRO STATION TO OCONEE NUC
STATION.

PLANT NAME: OCONEE - UNIT 1
OCONEE - UNIT 2
OCONEE - UNIT 3

REVIEWER INITIAL: XJM
DISTRIBUTER INITIAL: *u*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

NOTES:

- 1. M. CUNNINGHAM - ALL AMENDMENTS TO FSAR AND CHANGES TO TECH SPECS

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DISTRIBUTION: LTR 40 ENCL 39
SIZE: 1P+4P

CONTROL NBR: 781160155

***** THE END *****

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

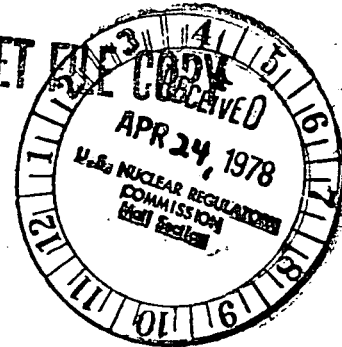
April 19, 1978

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

Mr. Edson G. Case, Acting Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

REGULATORY DOCKET FILE COPY



Attention: Mr. R. Reid, Chief
Operating Reactor Branch #1

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

Dear Sir:

My letter dated October 7, 1976 described the seismic qualification of the overhead transmission path from Keowee Hydro Station to Oconee Nuclear Station. The attached tables provide an updated status of this qualification effort. Changes in status have been indicated by vertical lines in the margin by the affected item. Additional supplementary reports will be submitted to appraise you of your progress in this endeavor.

Very truly yours,

William O. Parker, Jr.

William O. Parker, Jr.

by JS

RLG:ge
Attachment

781160155

001/s *
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TABLE I

KEOWEE-OCONEE OVERHEAD EMERGENCY
POWER PATH STRUCTURES SEISMIC QUALIFICATION SURVEY

Structure	Qualified	Method	Basis of Qualification
1. Keowee Main Step-up Transformer Base	See Note 1	Analysis	0.15g Ground Motion
2. Oconee Startup Transformer Bases	Yes	Analysis	0.15g Ground Motion
3. Keowee 230kV Line Pulloff Structure	Yes	Analysis	0.15g Ground Motion
4. 230kV Transmission Line and Towers from Keowee to Oconee	Yes	Analysis	0.15g Ground Motion
5. Oconee 230kV Strain Structures	Yes	Analysis	0.15g Ground Motion
6. Oconee 230kV Swyd. Bus Support Structure	Yes	Analysis	0.15g Ground Motion
7. Oconee 230kV Swyd. Wave Trap Support Structure	Yes	Analysis	0.15g Ground Motion
8. Oconee 230kV Swyd. Lightning Arrestor Support Structure	Yes	Analysis	0.15g Ground Motion
9. Oconee 230kV Swyd. Coupling Capacitor Potential Devices (CCPD) Support Structure	Yes	Analysis	0.15g Ground Motion
10. Oconee 230kV Swyd. Disconnect Switch Support Structure	Yes	Analysis	0.15g Ground Motion
11. Oconee 230kV Swyd. PCB Support Structure	See Note 6	Analysis	0.15g Ground Motion
12. Oconee 230kV Swyd. Relay House	See Note 7	Analysis	0.15g Ground Motion
13. Oconee 230kV Swyd. Relay House Equipment Anchoring	See Note 7	Analysis	0.15g Ground Motion
14. 230kV Lines from Oconee 230kV Switchyard to Startup Transformers	Yes	Analysis	0.15g Ground Motion
15. Oconee Powerhouse 230kV Line and Shield Wire Pulloff Structures	Yes	Analysis	0.15g Ground Motion

TABLE I

Sheet 2 of 2

- Note 1: Field modifications complete; SMR ON-710 completion pending issuance of revised drawings.
- Note 6: Analysis scheduled for completion May 10, 1978.
- Note 7: Field modifications complete; SMR ON-729 complete; SMR's ON-711 and ON-731 completion pending issuance of revised drawings.

TABLE II

Sheet 1 of 2

KEOWEE-OCONEE OVERHEAD EMERGENCY
POWER PATH EQUIPMENT SEISMIC QUALIFICATION SURVEY

Equipment Type	Identification	Qualified	Method	Basis of Qualification
1. Keowee Main Stepup Transformer	Transformer No. 1	Yes	Manufacturer Test/Analysis	0.36g
2. Oconee Startup Transformers	CT1, CT2, CT3	Yes	Manufacturer Test/Analysis	0.36g
3. 230kV Disconnect Switches		Yes	Manufacturer Test/Analysis	0.36g
4. Oconee 230kV Swyd. Bus Conductor System		See Note 1	Analysis	0.36g
5. 230kV Power Circuit Breakers (PCB's)	PCB Nos. 8, 9, 12, 15, 17, 18, 21, 24, 26, 27, 28, 30, 33	Yes	Test/Analysis	0.36g
6. 230kV Swyd. Coupling Capacitor Potential Devices (CCPD)		Yes	Manufacturer Test/Analysis	0.36g
7. 230kV Swyd. Lightning Arrestors		Yes	Manufacturer Test/Analysis	0.36g
8. 230kV Swyd. DC Distribution Centers	Nos. SY-DC1, SY-DC2	Yes	Test	0.36g
9. 230kV Swyd. DC Panelboards	Nos. DYA, DYB, DYC, DYD, DYE, DYF, DYG, DYH	Yes	Manufacturer Test	0.36g
10. 230kV Swyd. Control Power Batteries	Nos. SY-1, SY-2	Yes	Manufacturer Test	0.36g
11. 230kV Swyd. Battery Chargers	Nos. SY-1, SY-2, SY-S	Yes	Manufacturer Test	0.36g
12. 230kV Swyd. Relay House Lighting System		Yes	Analysis	0.36g

Equipment Type	Identification	Qualified	Method	Basis of Qualification
13. 230kV Swyd. Relay Panels and Equipment		See Note 3	Test/Analysis	0.36g
14. 230kV Swyd. Relay House Roof Drain Pipe		See Note 4	Analysis	0.36g
15. 230kV Swyd. Relay House HVAC Duct		See Note 4	Analysis	0.36g
16. 230kV Swyd. Relay House Air Handling Unit		See Note 4	Analysis	0.36g

Note 1: Analysis scheduled for completion May 10, 1978.

Note 3: Analysis complete; relay seismic testing required; scheduled for completion May 26, 1978.

Note 4: Field modifications complete; SMR ON-682 completion pending issuance of revised drawings.