FEBRUARY 9 1981

Docket Nos. 50-269/270/287

Mr. William O. Parker, Jr. Vice Président - Steam Production Duke Power Company P. O. Box 2178 422 South Church Street Charlotte, North Carolina 28242

DISTRIBUTION Docket File NRC PDR L PDR TERA NSIC ORB#4 Rdg **D.** Eisenhut R. Purple T. Novak R. Tedesco G. Laines J. Heltemes OELD I&E-3

1

R. Reid M. Fairtile R. Ingram Gray Files ACRS-16 E. Blackwood H. Ornstein s. Kim

Dear Mr. Parker:

In order to complete our review of the Standby Shutdown Facility at the Oconee Nuclear Station we find that we need additional information. These requests relate to seismic design.

Kindly respond with three signed originals and 37 additional copies on a schedule consistent with the completion schedule of the Facility.

## Sincerely,

Original signed by Robert W. Reid Robert W///Reid, Chief Operating Reactors Branch #4 Division of Licensing

Enclosure: Request for Additional Information

cc w/enclosure: See next page



8193959 51

DATE 2/9/81 2/9/81	
surname MFairtile; cf Reek	
OFFICE ORB#4:DL	

00

Doc Ket

50-269



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

February 9, 1981

Docket Nos. 50-269/270/287

Mr. William O. Parker, Jr.
Vice President - Steam Production
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Parker:

In order to complete our review of the Standby Shutdown Facility at the Oconee Nuclear Station we find that we need additional information. These requests relate to seismic design.

Kindly respond with three signed originals and 37 additional copies on a schedule consistent with the completion schedule of the Facility.

Sincerely,

Robert W. Reid, Chief Operating Reactors Branch #4 Division of Licensing

Enclosure: Request for Additional Information

cc w/enclosure: See next page Duke Power Company

**R**. .

cc w/enclosure(s):

Mr. William L. Porter Duke Power Company P. O. Box 2178 422 South Church Street Charlotte, North Carolina 28242

Oconee County Library 501 West Southbroad Street Walhalla, South Carolina 29691

Honorable James M. Phinney County Supervisor of Oconee County Walhalla, South Carolina 29621

Director, Criteria and Standards Division Office of Radiation Programs (ANR-460) U. S. Environmental Protection Agency Washington, D. C. 20460

U. S. Environmental Protection Agency Region IV Office ATTN: EIS COORDINATOR 345 Courtland Street, N.E. Atlanta, Georgia 30308

Mr. Francis Jape U.S. Nuclear Regulatory Commission Route 2, Box 610 Seneca, South Carolina 29678

Mr. Robert B. Borsum Babcock & Wilcox Nuclear Power Generation Division Suite 420, 7735 Old Georgetown Road Bethesda, Maryland 20014

Manager, LIS NUS Corporation 2536 Countryside Boulevard Clearwater, Florida 33515

J. Michael McGarry, III, Esq. DeBevoise & Liberman 1200 17th Street, N.W. Washington, D. C. 20036 Office of Intergovernmental Relations 116 West Jones Street Raleigh, North Carolina 27603

## ENCLOSURE

## REQUEST FOR INFORMATION

- 1. Provide the mathematical model that is used in your earthquake response analysis of SSF. The model should show mass points, their coordinates, damping and spring arrangements and their corresponding numerical values as well as appropriate configuration of soil and bedrock foundation. In particular, provide a reasonable discussion as to how the embedded portion of the building below the ground level is modeled and how soil-structure interaction is considered. If no such soil-structure interaction is considered, please justify the proposed design by discussing why the model without soil-structure interaction represents a conservative dynamic model.
- 2. Discuss where the 0.10g bedrock acceleration is applied. Indicate the location of application in the model requested in Question 1 above.
- 3. Provide the reference from which the proposed load combinations of SSF are obtained. Discuss and justify any deviations from the SRP either in the actual combination formulas or the definition of the terms.
- 4. Describe any safety grade structures such as cable tunnels or buried piping systems that connect SSF with other facilities (e.g. reactor building). Discuss design limits and associted safety analysis for such structures.
- 5. It is not clear whether your submittal was written before or after the completion of the SSF design. Indicate if the proposed design criteria

Page 2 of Enclosure - REQUEST FOR INFORMATION

contained in the present report have been met in the final design. Should there be any deviations from it, identify and discuss such deviations.

Indicate also if the design has met all the pertinent regulations and therefore public safety is assured.