

Georgia Power Company
333 Piedmont Avenue
Atlanta, Georgia 30308
Telephone 404 526-6526

Mailing Address
Post Office Box 4545
Atlanta, Georgia 30302

Executive Department



Georgia Power

The Southern Electric System

SL-4601
0988U
X7GJ17-H220

May 12, 1988

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

PLANT HATCH - UNIT 1
NRC DOCKET 50-321
OPERATING LICENSE DPR-57
SEISMIC MARGINS ASSESSMENT

Gentlemen:

Georgia Power Company (GPC) is preparing to conduct a seismic margins assessment (SMA) of Plant Hatch using the EPRI Seismic Margins methodology. The SMA is a GPC initiative which will address present and future seismic issues. One element of the program entails analysis of plant soils. A meeting between GPC and the NRC to discuss these analyses, as well as other aspects of the SMA, was held on May 10, 1988.

To facilitate the review of these analyses by the NRC staff and their soils consultants, the pertinent materials contained in the enclosures to this letter were provided to the NRC and their consultants prior to the May 10 meeting. Enclosure 1 is a report by I. M. Idriss and others of Woodward-Clyde Consultants entitled "Seismic Margin Assessment - Issues Related to Soils and Earthquake Ground Motions - Georgia Power Company's Edwin I. Hatch Nuclear Power Plant". Computed response spectra at the reactor building foundation level for Soil Profile I (Case I) and Soil Profile II (Case II) are contained in Enclosure 2. The free field ground surface response spectra is also plotted on the figures of Enclosure 2 for comparison purposes.

Enclosure 3 contains a document entitled "E. I. Hatch Nuclear Plant - Unit 1 Seismic Margin Assessment (SMA) Soil-Structure Interaction Analysis" prepared by J. J. Johnson and O. R. Maslenikov of EQE, Inc. and dated April 1988. Selected drawings that provide information on plant layout, building excavation, and backfilling are provided in Enclosure 4. The specific drawings provided are:

8805180109 880512
PDR ADOCK 05000321
P DCD

A001
1/1

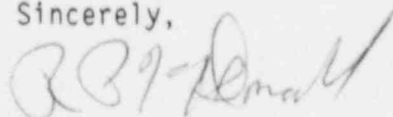
U. S. Nuclear Regulatory Commission
May 12, 1988
Page Two

H - 11003	General Arrangement Plant Site
H - 12000	Unit 1 Reactor, Radwaste, and Turbine Buildings Excavation Plan and Sections
H- 22000	Unit 2 Reactor, Radwaste, and Turbine Buildings Excavation Plan and Sections
H-29130	Intake Structure Proposed Excavation Support and Backfill Concept

The Seismic Margins Assessment Program and schedule have been based upon the anticipated Unit 1 refueling outage during the Fall of 1988. In order to meet the schedule and perform the seismic margins assessment walkdown during the scheduled outage, the initial portion of the program must proceed without delay. To this end, it is requested that the NRC staff and contractors provide any comments they have on the enclosed documentation as quickly as possible.

If you have any questions regarding this matter, please contact this office.

Sincerely,



R. P. McDonald
Executive Vice President
Nuclear Operations

KHW:ju

- Enclosures: (1) Report entitled, "Seismic Margin Assessment - Issues Related to Soils and Earthquake Ground Motions - Georgia Power Company's Edwin I. Hatch Nuclear Plant"
- (2) Computed Response Spectra for Soil Profiles
- (3) Document entitled, "E. I. Hatch Nuclear Plant - Unit 1 Seismic Margin Assessment (SMA) Soil - Structure Interaction Analysis"
- (4) Four Selected Drawings

c: (see next page)

U. S. Nuclear Regulatory Commission
May 12, 1988
Page 3

- c: Georgia Power Company
Mr. J. T. Beckham, Jr., Vice President - Plant Hatch (w/enclosures)
Mr. L. T. Gucwa, Manager Nuclear Safety and Licensing(w/o enclosures)
GO-NORMS

(w/enclosures)
U. S. Nuclear Regulatory Commission - Washington, DC
Mr. Daniel Guzy, Office of Nuclear Regulatory Research (3 copies)
Mr. Larry Crocker, Licensing Project Manager

U. S. Nuclear Regulatory Commission - Region II
Dr. J. Nelson Grace, Regional Administrator

Massachusetts Institute of Technology
Mr. Robert V. Whitman

GEI Consultants
Mr. Gonzalo Castro

ENCLOSURE 1

REPORT ENTITLED "SEISMIC MARGIN ASSESSMENT - ISSUES RELATED TO
SOILS AND EARTHQUAKE GROUND MOTIONS -
GEORGIA POWER COMPANY'S
EDWIN I. HATCH NUCLEAR PLANT"