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the southern electric system

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May 25, 1988

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

PLANT HATCH - UNIT 1
NRC DOCKET 50-321
OPERATING LICENSE DPR-57
SEISMIC MARGINS EARTHQUAKE
TIME HISTORY POWER SPECTRAL DENSITY

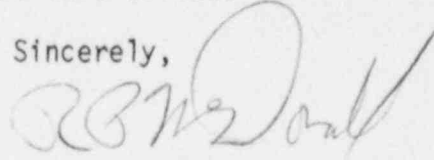
Gentlemen:

During the May 10, 1988 meeting on the Plant Hatch Seismic Program between Georgia Power Company (GPC) and the Nuclear Regulatory Commission (NRC), it was requested by an NRC representative that GPC provide the power spectral density for the seismic margins earthquake (SME) time history. The requested information is provided in the enclosure to this letter. The enclosure contains three figures relative to the SME time history. The figures are: (E-1) Fourier Spectral Amplitudes, (E-2) Power Spectral Density, and (E-3) Cumulative Power Spectral Density.

Soils structure interaction (SSI) work of the seismic margins assessment (SMA) represents the critical path for implementing the program. The data in the enclosure are used in the SSI analysis. It is therefore, very important that the NRC review the information as soon as possible in order for the SMA to proceed on schedule. An extensive delay could require the SMA to be deferred to the next refueling outage (Spring, 1990). Your prompt indication of acceptability will be greatly appreciated.

If you have any questions, please contact this office.

Sincerely,



R. P. McDonald

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PDR ADOCK 05000321
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Enclosure: Seismic Margins Earthquake Time History Power
Spectral Density

c: (see next page)

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U. S. Nuclear Regulatory Commission
May 25, 1988
Page Two

c: Georgia Power Company
Mr. W. G. Hairston, III
Mr. J. T. Beckham, Jr.
Mr. E. M. Howard
Mr. L. T. Gucwa
Mr. J. P. Kane
GO-NORMS

U. S. Nuclear Regulatory Commission - Washington, DC
Mr. Daniel Guzy, Office of Nuclear Regulatory Research (3 copies)
Mr. Larry Crocker, Licensing Project Manager
Mr. Goutam Bagchi, Office of Nuclear Reactor Regulation

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

ENCLOSURE

SEISMIC MARGINS EARTHQUAKE

TIME HISTORY POWER SPECTRAL DENSITY

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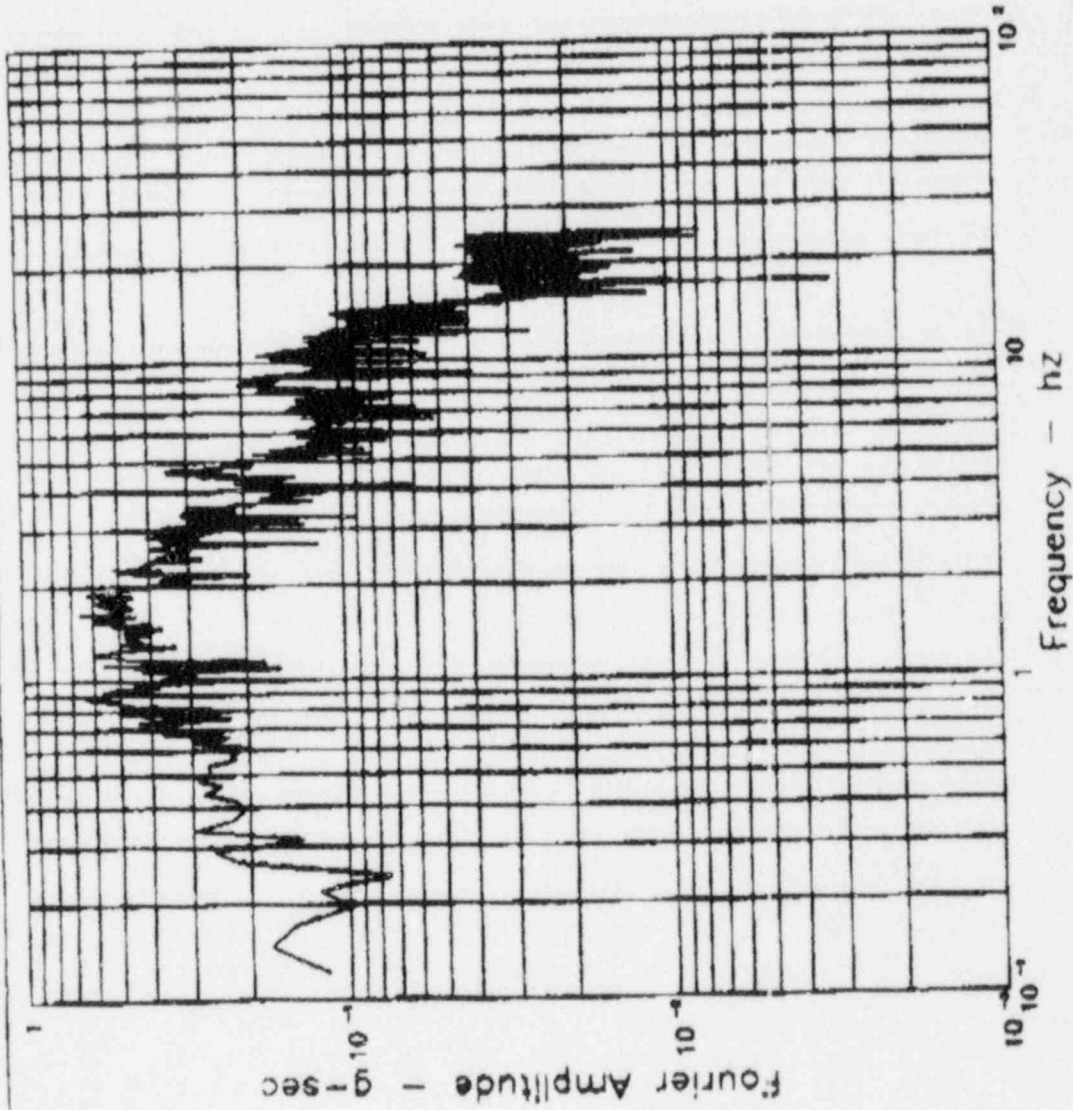


Fig.

FOURIER SPECTRAL AMPLITUDES -- SYNTH TH H-1

Project HATCH NP SEISMIC MARGIN

Project No. 8743076A

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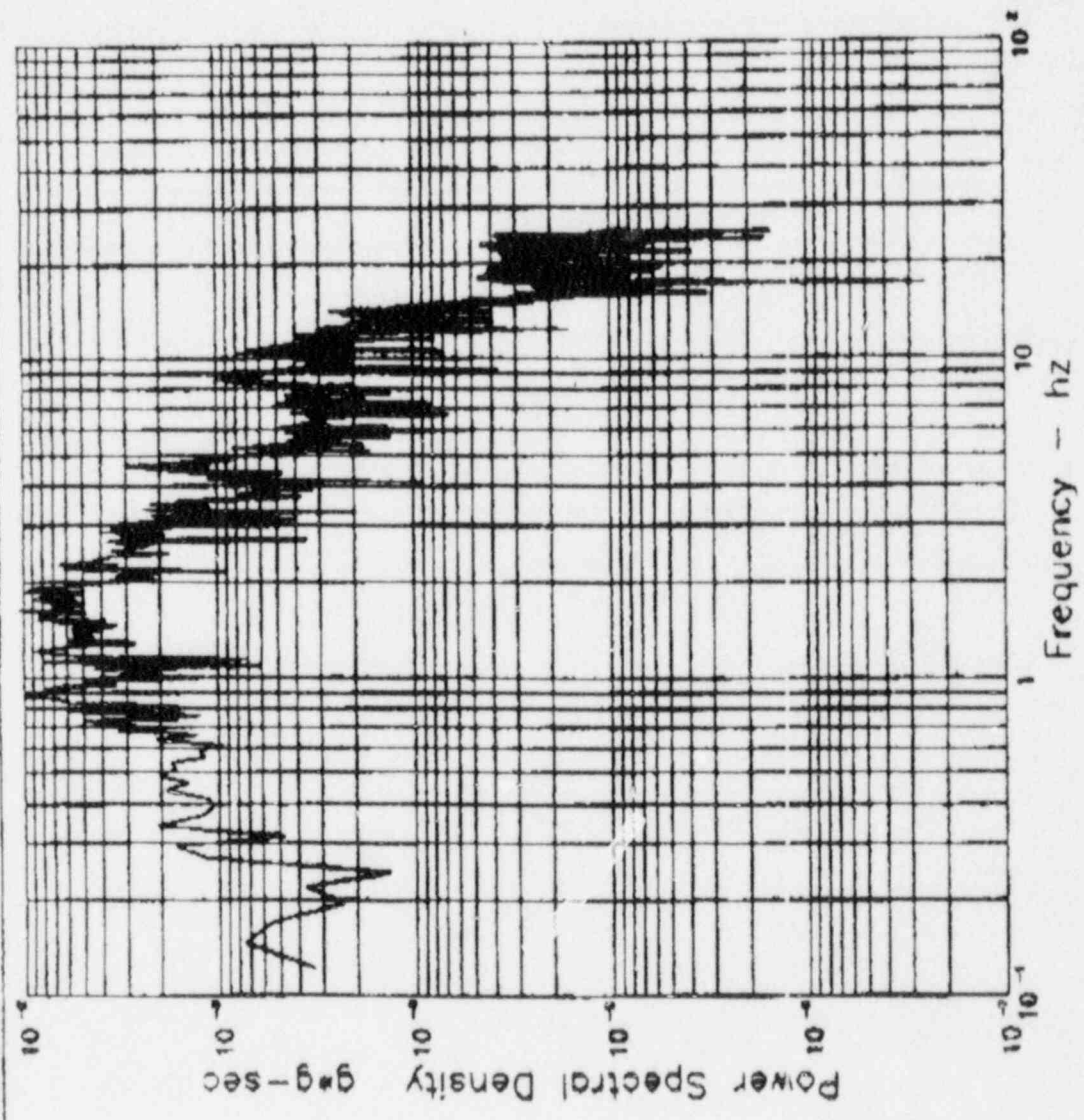


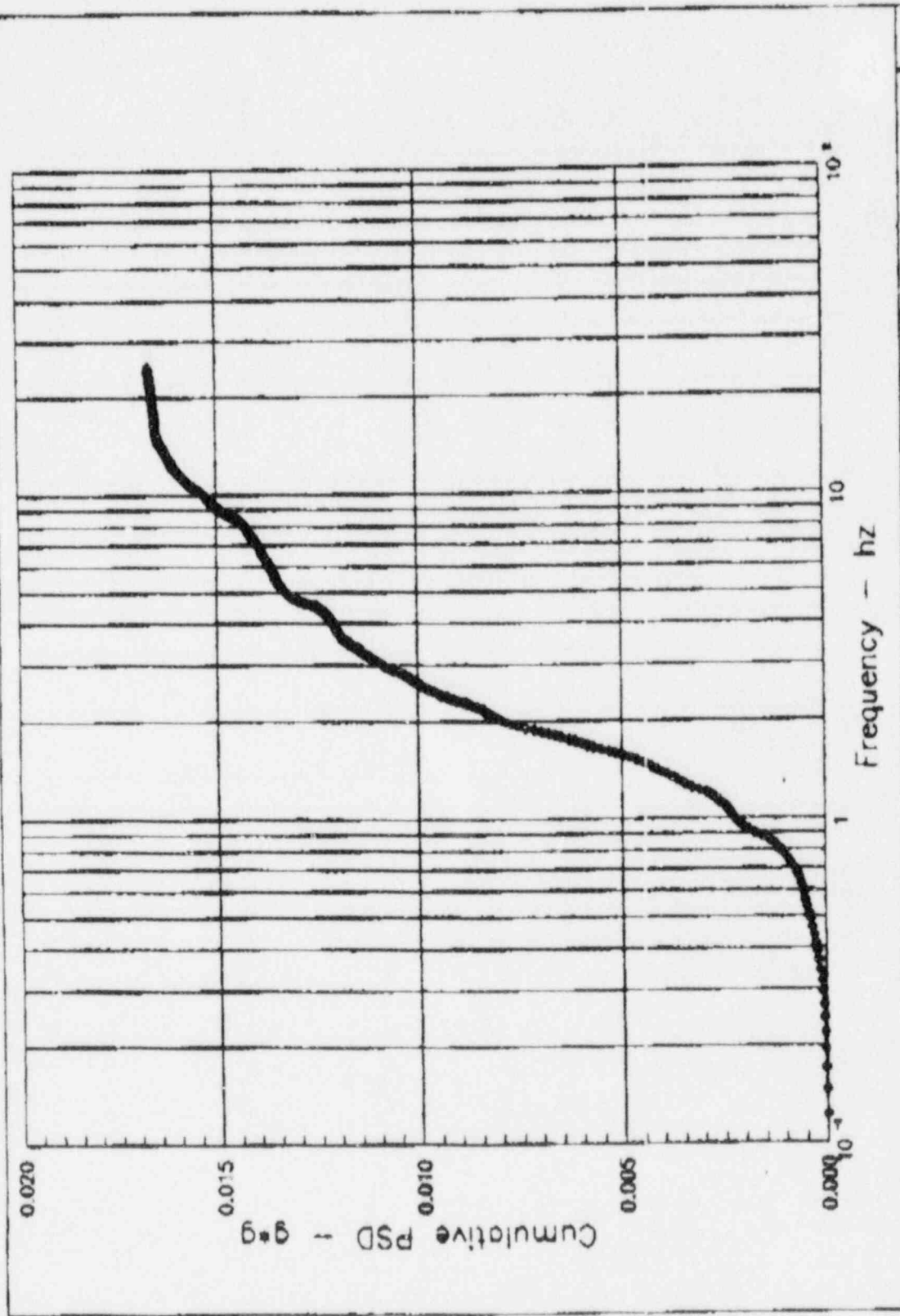
Fig.

POWER SPECTRAL DENSITY FOR SYNTHETIC TH H-1

Project: MATCH NP SEISMIC MARGIN
Project No. 8743076A

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Project: HATCH NP SEISMIC MARGIN
Project No. 8743076A
CUMULATIVE PSD FOR SYNTHETIC TH H-1
Fig.

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