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Docket Nos: 50-413
and 50-414

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Request for Additional Information -
Catawba Nuclear Station

In the performance of the Catawba Station licensing review, the NRC staff has identified the need for additional information in the Geosciences and Geotechnical areas (Enclosure). This request for additional information pertains to a concern that was previously discussed with your staff. We request that you provide the information herein requested no later than January 26, 1983. If you require any clarification of this matter, please contact the project manager, Kahtan Jabbour, at (301) 492-7821.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosure:
As stated

cc: See next page

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SURNAME ▶	KJabbour/hmc	MDuncan	EAdensam				
DATE ▶	1/11/83	1/11/83	1/11/83				

CATAWBA

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The NRC staff noted, in the draft SER, that the justification for the simplified model to account for actual conditions at the site is not apparent from the FSAR text. We request that you expand the discussion concerning residual soil supported Category I structures (FSAR section 2.5.2.8, third paragraph) with particular reference to the following:

- a) Identify the soil parameters used in the amplification analysis of the 25 feet of overburden (shear velocity, shear modulus, etc.).
- b) Identify the mathematical modelling techniques and the computer program used to obtain the spectra shown in FSAR, figure 2.5.2-8.
- c) Demonstrate that the results obtained by the method described under (b) constitute a conservative estimate of the ground motion considering the actual site conditions (FSAR, figures 2.5.4-3 and 2.5.4-16).

OFFICE ▶
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