



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

TERA

Docket No. 50-358

NOV 18 1980

Mr. Earl A. Borgmann
Vice President - Engineering
Cincinnati Gas & Electric Company
P. O. Box 960
Cincinnati, Ohio 45201

Dear Mr. Borgmann:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

As a result of the occurrence of a moderate earthquake approximately 45 miles southeast of the Zimmer site near Sharpsburg, Kentucky on July 27, 1980, the staff will issue a SER supplement to the seismology section providing a complete discussion of this earthquake.

In order to obtain the information required to issue this supplement, we have prepared the following questions. Upon receipt of your response, we estimate that it will take 30-60 days to complete our review and provide the supplement. Please advise us as to when you will be able to respond.

We will be available to discuss these questions at a meeting or by telephone conference call.

Sincerely, .

F. J. Meraglia
for Robert L. Tedesco
Assistant Director for Licensing
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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Zimmer

Geosciences Branch

323.22 (2.5.2.5)

27 July 1980 Sharpsburg KY, Earthquake

On 27 July 1980, a moderate earthquake occurred near the town of Sharpsburg, Kentucky about 42-45 miles SE of the Zimmer plant site. Supply a complete report discussing all essential elements concerning this earthquake including:

1. All magnitude estimates (Ms, MbLg, Mh, teleseismic)
2. Epicentral Intensity and Isoseismal map
3. Written description of felt effects and intensity at the plant site.
4. Effect of the Ohio River valley on the intensity distribution of this event.
5. All available references

323.23

Assuming the 27 July 1980 earthquake reoccurred in the immediate vicinity of the site, compare the estimated ground motion (Response spectra and peak) from this assumed earthquake to the SSE.

323.24

Since the Anna, Ohio earthquake was considered to be the basis for the SSE, both the 1937 Anna Ohio earthquake and the 27 July 1980 Sharpsburg, KY are spatially located near the Cincinnati Arch basement feature. Discuss these earthquakes in terms of their impact on your tectonic framework for the Central Stable Region and the Zimmer site area.