

Georgia Power Company
230 Peachtree Street
Post Office Box 4545
Atlanta, Georgia 30303
Telephone 404 522-6060

Chas. F. Whitmer
Vice President



August 21, 1979

Director of Nuclear Reactor Regulation
ATTN: Roger S. Boyd, Director
Division of Project Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC DOCKET NUMBERS 50-424 and 50-425
CONSTRUCTION PERMIT NUMBERS CPPR-108 and CPPR-109
ALVIN W. VOGTLE NUCLEAR PLANT-UNITS 1 and 2
ENCLOSURE BUILDING

Dear Mr. Boyd:

Georgia Power Company hereby files three (3) signed and sixty (60) conformed copies of Supplement 6 to its application for a Construction Permit and Operating License for the Alvin W. Vogtle Nuclear Plant. This supplement consists primarily of revised analysis of the radiological consequences of a postulated loss-of-coolant accident (Reg. Guide 1.4 assumptions) using assumptions that do not assume credit for an enclosure building, and the deletion of the portion of the enclosure building above the 270 foot level (50 ft. above grade).

During the initial design stages of the Vogtle Nuclear Plant, Georgia Power Company decided to add an enclosure building around the containment in light of the uncertainties existing at that time. These uncertainties include: insufficient on-site meteorological data which forms the basis for accident dose calculations; the NRC-approved models and guidelines to be used in calculations of off-site doses; availability of approved models for calculation of containment spray effectiveness in removing iodine; and lack of confidence in meeting low containment leak rates during demonstration tests. This design was also heavily influenced by the fact that the deletion of the enclosure building later would have essentially no impact whereas the addition of this building would significantly impact all aspects of design, construction, and schedules. Hence, the application for a Construction Permit for the facility reflected this decision.

Since that time these uncertainties have been resolved, and consequently, Georgia Power Company has decided to delete the enclosure building from the Vogtle Nuclear Plant. The results indicate that adequate dose margins to 10CFR100 guidelines are maintained and that the Construction Permit dose bases are met without utilizing the enclosure building. Therefore, we are proceeding with this modification of the plant design.

828 001

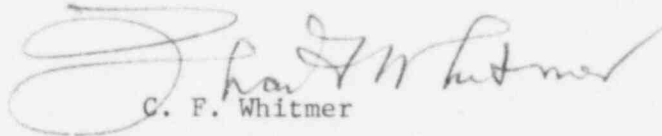
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Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
August 21, 1979

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If you have any concerns regarding this change, please contact us as soon as possible.

Yours very truly,


C. F. Whitmer

xc: J. A. Bailey
D. E. Dutton
R. A. Thomas
J. L. Vota
B. L. Lex
L. T. Gucwa
G. F. Trowbridge, Esq.

BEFORE THE
UNITED STATES NUCLEAR REGULATORY COMMISSION

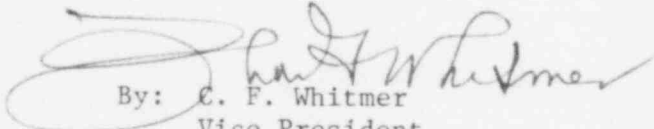
NRC Docket Nos. 50-424, 50-425

In the Matter of
GEORGIA POWER COMPANY

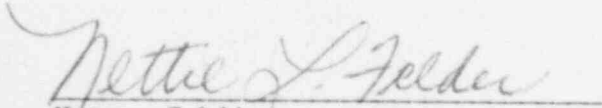
SUPPLEMENT 6 TO
APPLICATION FOR LICENSE
UNDER THE ATOMIC ENERGY ACT OF 1954
AS AMENDED

FOR
ALVIN W. VOGTLE NUCLEAR PLANT
UNITS 1, 2

The Applicant, Georgia Power Company, hereby supplements its Application for a Construction Permit and Operating License, originally submitted on August 1, 1972, by the addition of supplementary material attached hereto.


By: C. F. Whitmer
Vice President

Sworn to and subscribed before me, this 21st day of August, 1979.


Notary Public
Notary Public, Georgia, State at Large
My Commission Expires Sept. 29, 1981

828 003

Georgia Power Company
230 Peachtree Street
Post Office Box 4545
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Chas. F. Whitmer
Vice President
Engineering



August 21, 1979

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ATTN: Roger S. Boyd, Director
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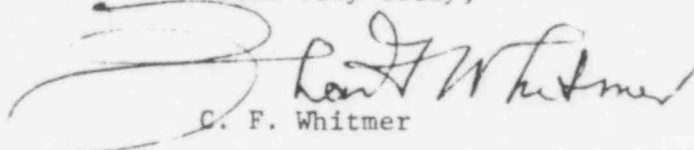
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