

07/28/80

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

HOUSTON LIGHTING & POWER COMPANY

(Allens Creek Nuclear Generating
Station, Unit 1)

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Docket No. 50-466

NRC STAFF'S RESPONSE TO JOHN F. DOHERTY'S REQUEST FOR
ADMISSIONS FROM STAFF (SECOND)

The NRC Staff responds as follows to the request for admissions filed by John F. Doherty on July 8, 1980.

1. Admit or deny that neutron irradiation at low temperature reduces the thermal conductivity of Uranium Oxide, but that thermal conductivity increases after 150 - 200° C. (Doherty #39)

Response

Yes, irradiation at low temperatures reduces the thermal conductivity of Uranium Oxide and the thermal conductivity increases at temperatures above 150 - 200°C. (See R. O. Lokken and E. L. Courtright, "A Review of the Effects of Burnup on the Thermal Conductivity of UO₂₃" BNWL-2270).

2. On Page 16 of its Response to Intervenor Doggett & Perrenod's first set of Interrogatories, Applicant states:

It appears that at page 20-1 of Supplement No. 2 of the SER, the Staff misstated the information provided in Amendment 2 to the Application.

Admit or deny if this is true.

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Response

Admit.

3. Admit or deny the Amendment 2 referred to in Request 2 above provides that the total nuclear production plant costs including interest during construction and transmission, distribution and general plant costs equals \$1,372,042,000.

Response

Admit.

4. Admit or deny the Browns Ferry - III nuclear plant failed to SCRAM on a routine shutdown during the last week of June or first week of July, 1980.

Response

Since "failed to SCRAM" may not have a commonly understood meaning, a single "admit" or "deny" is not appropriate. In the Browns Ferry - III event the reactor power was reduced to a small fraction of the initial power, although some control rods were not immediately inserted into the reactor core. Even so, an examination of the event indicates that events similar to the Browns Ferry - III event, but starting from 100 percent power and preceded by initiation of some transients, could lead to consequences that would be more serious than in the Browns Ferry - III event but not as serious as if none of the rods were immediately inserted.

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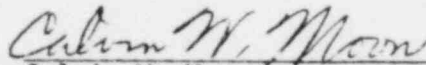
(Allens Creek Nuclear Generating
Station, Unit 1)

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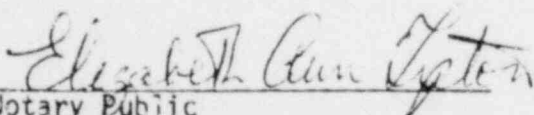
Docket No. 50-466

AFFIDAVIT OF CALVIN W. MOON

I hereby depose and say under oath that the foregoing NRC Staff responses to requests for admissions propounded by John F. Doherty were prepared by me or under my supervision. I certify that the answers given are true and correct to the best of my knowledge, information and belief.


Calvin W. Moon

Subscribed and sworn to before me
this 25th day of July, 1980.


Notary Public

My Commission expires: July 1, 1982

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
HOUSTON LIGHTING & POWER COMPANY) Docket No. 50-466
(Allens Creek Nuclear Generating)
Station, Unit 1))

CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF'S RESPONSE TO JOHN F. DOHERTY'S REQUEST FOR ADMISSIONS FROM STAFF (SECOND)" and "AFFIDAVIT OF CALVIN W. MOON" in the above-captioned proceeding have been served on the following by deposit in the United States mail, first class or, as indicated by an asterisk through deposit in the Nuclear Regulatory Commission internal mail system, this 28th day of July, 1980:

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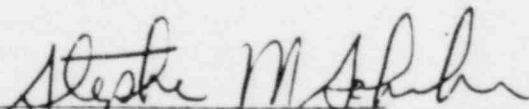
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