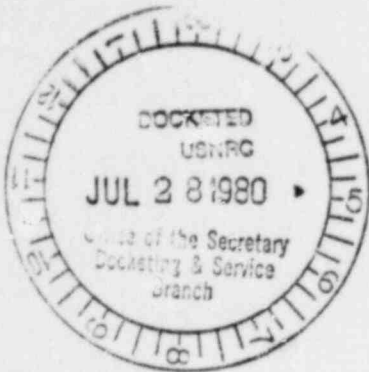


ISHAM, LINCOLN & BEALE
COUNSELORS AT LAW

1120 CONNECTICUT AVENUE, N.W.
SUITE 325
WASHINGTON, D. C. 20036
TELEPHONE 202-833-9730

CHICAGO OFFICE
ONE FIRST NATIONAL PLAZA
FORTY-SECOND FLOOR
CHICAGO, ILLINOIS 60603
TELEPHONE 312-558-7500
TELEX: 2-5286



July 24, 1980

Herbert Grossman, Esquire
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

Dr. Oscar H. Paris
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

Mr. Frederick J. Shon
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

Re: In the Matter of Consumers Power Company
(Big Rock Point Nuclear Power Plant),
Docket No. 50-155

Gentlemen:

I am enclosing the following materials:

1. A "Structural Analysis of the Spent Fuel Pool Liner and Concrete Due To Coolant System Failure for the Big Rock Point Nuclear Power Plant," NUS-3567, dated April 18, 1980; a related thermal analysis of the spent fuel pool wall (NUS File No. 5148-SA-A3); and attached transmittal letter Antonucci to Larsen dated April 23, 1980.
2. A letter dated April 24, 1980 from Antonucci of NUS to Larsen noting a correction to the report described in 1. above.

80 07300308

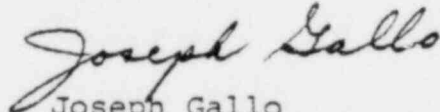
D503
S
111

3. Two Internal Memos from R. Sacramo to C. Antonucci: No. EMD-RFS-013 dated May 12, 1980 and No. EMD-RFS-014 dated May 16, 1980; and a transmittal letter from Antonucci to Larsen of Consumers Power Company dated May 20, 1980.
4. A letter dated June 20, 1980 from Hoffman of Consumers Power Company to Crutchfield of the NRC Staff which transmitted items 1 and 3 to the NRC Staff.

Item 4 also corrects information previously furnished to the NRC Staff, specifically, response number 4 of Consumers Power Company's letter dated January 16, 1980.

All of the foregoing information is submitted by Consumers Power Company in support of its April 23, 1979 application for an operating license amendment which would authorize the Company to expand the existing capacity of the spent fuel pool at Big Rock Point.

Sincerely,



Joseph Gallo
One of the Attorneys for
Consumers Power Company

cc: Service List



**Consumers
Power
Company**

RECEIVED
JUN 28 1980

COPY

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

June 20, 1980

Director, Nuclear Reactor Regulation
Att Mr Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
U S Nuclear Regulatory Commission
Washington, DC 20555



DOCKET 50-155 - LICENSE DPR-6 -
BIG ROCK POINT PLANT - QUANTITATIVE
THERMAL AND STRESS ANALYSIS OF SPENT
FUEL POOL STRUCTURE AS A RESULT OF
POOL BOILING

This letter provides information concerning two issues relating to Consumers Power Company's request to expand spent fuel storage capacity at Big Rock Point. The issues are 1) integrity of structural elements in the event of boiling in the spent fuel pool, and 2) provision of makeup water to the spent fuel pool in the event containment cannot be entered.

By letter dated February 1, 1980, Consumers Power Company committed to supply the NRC a quantitative analysis on the effects of pool boiling on the concrete structure, racks and liner of the Big Rock Point Plant spent fuel pool. This analysis was intended to answer concerns raised as a result of submittals by Consumers Power Company on December 28, 1979, (response to Question 3 of that submittal) and January 16, 1980, (response to Item 4 of that submittal). The results of the analysis conclude that during the worst case condition, the stresses that develop are within design limits. Transmitted herewith is one (1) copy of the NUS Analysis entitled, "Structural Analysis of the Spent Fuel Pool Liner and Concrete Due to Coolant System Failure for the Big Rock Point Nuclear Power Plant-NUS 3567", one copy of the related thermal analysis of the spent fuel pool wall, and one copy of a letter from NUS to Mr C Larsen (CPCo) dated May 20, 1980, with its attachments.

With respect to the second issue, response number 4 of Consumers Power Company letter dated January 16, 1980, requires minor correction. A revision to this response is attached. Changes are indicated by a vertical line in the margin.

David P Hoffman (Signed)

David P Hoffman
Nuclear Licensing Administrator

CC JGKeppler, USNRC
NRC Resident Inspector - Big Rock P

Attachments (3)

DUPLICATE DOCUMENT

Entire document previously
entered into system under:

ANO 8006250268

No. of pages: 10

Dupe of 8006250268 3pp

TR-60-13

STRUCTURAL ANALYSIS OF THE
SPENT FUEL POOL LINER AND CONCRETE
DUE TO COOLANT SYSTEM FAILURE
FOR THE
BIG ROCK POINT NUCLEAR POWER PLANT

NUS-3567

April 18, 1980

Prepared for:
Consumer Power Company

Prepared by:
J. Gonen
R. F. Sacramento

Approved by: John H. Wawrzeniak
John H. Wawrzeniak
Manager, Engineering
Mechanics Department

NUS Corpor
4 Research
Rockville, Maryl

DUPLICATE DOCUMENT

Entire document previously
entered into system under:

ANO 8006250272

No. of pages: 118

Dupe of 8006250272 (RFR)