

50-261

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TO: Robert Reid

FROM: Carolina Power & Light Co.
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DESCRIPTION Ltr notarized 9-2-76 trans the following:

ENCLOSURE REPORT: XN-76-39 Rev. 0 entitled
H.B. Robinson Unit 2 Cycle 5 Reload SAR"
dated 8-25-76 with attached errata to report...

(43 cys encl rec'd)

PLANT NAME: H.B. Robison Plant

ACKNOWLEDGED

Do Not Remove

SAFETY

FOR ACTION/INFORMATION

ENVIRO

DHL 9-9-76

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST.:

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LA PDR

CONSULTANTS

To: L.A.

BROOKHAVEN NAT LAB

ULRIKSON (ORNL)

CONTROL NUMBER

9067



Carolina Power & Light Company

Regulatory Docket File

September 2, 1976

FILE: NG-3514(R)

SERIAL: NG-76-1199

Director of Nuclear Reactor Regulation
ATTN: Robert W. Reid, Chief
Operating Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



RE: H. B. ROBINSON STEAM ELECTRIC PLANT
DOCKET NO. 50-261
FACILITY OPERATING LICENSE DPR-23
CYCLE 5 RELOAD SAFETY ANALYSIS REPORT

Dear Mr. Reid:

Carolina Power & Light Company (CP&L) hereby transmits three (3) originals and forty (40) copies of this letter informing the NRC staff of the Company's scheduled refueling of the H. B. Robinson Unit 2 in November, 1976. Along with this letter, the Company is providing five (5) copies of the Exxon Nuclear Company (ENC) Report XN-76-39 which is the safety analysis report for the H. B. Robinson Cycle 5 reload. Thirty-five (35) copies of this report will be transmitted to the NRC directly by ENC. The information provided in this report conforms with that requested in Enclosure 1 to Mr. Karl R. Goller's letter of June 18, 1975, titled, "Guidance for Proposed License Amendments Relating to Refueling."

CP&L is scheduled to terminate H. B. Robinson Cycle 4 operation on November 1, 1976. The unit is scheduled to commence Cycle 5 operation on December 1, 1975, with a core consisting of 104 fuel assemblies manufactured by ENC and 53 fuel assemblies manufactured by the Westinghouse Electric Corporation.

The Plant Nuclear Safety Committee has reviewed the information presented in ENC Report XN-76-39 and has determined there is no unreviewed safety question associated with the reload. The characteristics of the reloaded core result in conformance with existing Technical Specifications, and thus no changes to the present specifications are required. Therefore, this reload constitutes a plant modification allowed under 10CFR50.59.

Recent investigations by Westinghouse Electric Corporation of certain plant parameters revealed that the present Emergency Core Cooling System (ECCS) analysis for H. B. Robinson may be nonconservative. This resulted in the NRC issuing an Order requiring that the Company perform a reanalysis to demonstrate

the ECCS conformance to Appendix K to 10CFR50. Until the analysis is provided, the plant is restricted to operation within conservative limits established by the Commission in the Order. In addition, recent thermal-hydraulic tests conducted by Westinghouse have revealed the potential need for an additional penalty on DNB parameters due to the effects of fuel rod bowing in irradiated fuel assemblies. The plant is restricted to operate within conservative limits with regard to this issue. Although both these issues have significant impact on the operation of H. B. Robinson, they will be considered separately from this description of our reload.

As discussed above, the Cycle 5 reload is a plant modification allowed under 10CFR50.59. This report is submitted for the purpose of informing the Staff of the Company's plans for refueling.

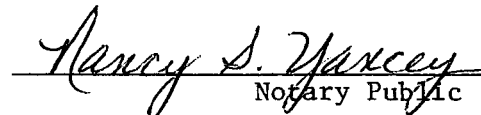
Yours very truly,



E. E. Utley
Vice President
Bulk Power Supply

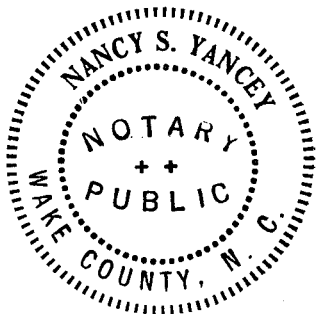
MFP/mjc

Sworn to and subscribed before me this *2nd* day of *September, 1976*.



Notary Public

My Commission expires: *June 29, 1981*



ERRATA

Received W/Ltr Dated 9-2-76

for

Regulatory Docket File

H. B. Robinson Unit 2 Cycle 5 Reload
Safety Analysis Report
(Exxon Nuclear Company Report XN-76-39)

Page No./Line

Reads

Should Read

1/2

... a single assembly from
Region 4 and

.... a single assembly
from Region 6 and ...

3/12

... core consists of a
Region 4 assembly...

.... core consists of a
Region 6 assembly ...

EXXON NUCLEAR COMPANY, Inc.

2101 Horn Rapids Road, Richland, Washington 99352

PHONE: (509) 946-9621

September 1, 1976



Mr. R. W. Reid
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

50-261

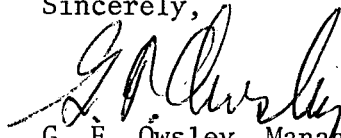
Subject: XN-76-39, Rev. 0, "H. B. Robinson Unit 2 Cycle 5 Reload Safety Analysis Report," August 25, 1976

Dear Mr. Reid:

This letter transmits thirty-five (35) copies of the subject document regarding Cycle 5 operation of H. B. Robinson Unit 2. This report provides information describing Cycle 5 operation in accordance with the information specified in the "Guidance for Proposed License Amendments Relating to Refueling," issued by the Staff in June, 1975.

Under separate cover, five (5) copies of this report are being submitted by Carolina Power and Light Company.

Sincerely,


G. F. Owsley, Manager
Reload Licensing

GFO:lp

Enclosures (35)

Copy to:

Mr. R. Matthews - CP&L

Mr. D. Waters - CP&L