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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 CHANDLER, J.C. Exxon Nuclear Co., Inc. (subs. of Exxon Corp.)
 RECIP. NAME RECIPIENT AFFILIATION
 THOMAS, C.O. Standardization & Special Projects Branch

SUBJECT: Requests generic review of PTS-PWR2 plant transient
 simulator code be reactivated, due to difficulty encountered
 in DC Cook Unit 2 Cycle 4 review.

DISTRIBUTION CODE: T010S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
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EXXON NUCLEAR COMPANY, Inc.

2101 Horn Rapids Road
P. O. Box 130, Richland, Washington 99352
Phone: (509) 375-8100 Telex: 15-2878

February 3, 1983.

JCC:026:83

Dr. Cecil O. Thomas, Chief
Standardization & Special Projects Branch
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: XN-74-5, Rev. 1, "Description of the Exxon Nuclear Plant Transient Simulation Model for Pressurized Water Reactors (PTS-PWR)," dated May 15, 1975

Dear Dr. Thomas:

During the course of the review of the licensee's application for license amendment supporting Cycle 4 operation of the D.C. Cook Unit 2 power plant, questions were raised by the Staff reviewer relative to the approval of ENC's PTS-PWR2 plant transient simulator code for pressurized water reactors.

The PTS-PWR2 plant transient simulator code is described in the subject report. This report was submitted in 1975 for Staff review and approval in support of the initial insertion of ENC fuel into the H.B. Robinson nuclear power plant. Since that time, PTS-PWR2 has been accepted as licensing basis for a number of PWR license amendments.

Generic review of PTS-PWR2 proceeded to the generation of a draft Safety Evaluation Report which has never been issued. According to NUREG-0390, Topical Report Review Status, this SER has not been issued because acceptance review criteria are being established for review of accident analysis programs.

During the D.C. Cook Unit 2 Cycle 4 review, the Staff reviewer asked for additional information describing PTS-PWR2. In response to that request, we provided the reviewer with copies of XN-CC-38, "User's Manual for PTSPWR2: A FORTRAN Program for Simulation of Pressurized Water Reactor Plant Transients," and XN-CC-38, Supplement 1. These reports expand the initial issue of XN-74-5 with user-oriented information, and describe an improved pressurizer model which was implemented in support of the initial insertion of ENC fuel into the Ft. Calhoun nuclear power plant. XN-CC-38 is a revision of XN-74-5.

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Dr. C.O. Thomas (NRC)

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February 3, 1983

Because of the difficulty encountered in the D.C. Cook Unit 2 Cycle 4 review, we would like to reactivate the generic review of PTS-PWR2 and complete the issuance of the generic approval of the code for use in the analysis of PWR plant transients. If you have any questions regarding this request, please feel free to call, telephone (509) 375-8639.

Sincerely,

A handwritten signature in cursive script that reads "J.C. Chandler".

J. C. Chandler
Reload Fuel Licensing

JCC:gf

CC: Mr. J. S. Berggren (USNRC)

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	RGN5		1	0	XTRA CCBERGGREN	6	0
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	NSIC	05	1	1	NTIS	06	1

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