

EXXON NUCLEAR COMPANY, Inc.

2101 Horn Rapids Road

P. O. Box 130, Richland, Washington 99352

Phone: (509) 375-8100 Telex: 15-2878

November 23, 1983
JCC:124:83

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-NF-524(A), "Exxon Nuclear Critical Power Methodology for Boiling Water Reactors," Revision 1, November 1983

Ref.: (1) Letter, C.O. Thomas (NRC) to J. C. Chandler (ENC), dated October 31, 1983
(2) Letter, G. F. Owsley (ENC) to J. R. Miller (NRC), dated May 30, 1980 (GFO:096:80)

Dear Dr. Thomas:

As requested in the Reference (1) letter, enclosed for your use are twenty-two (22) copies of the subject accepted topical report. This report describes the methodology used by Exxon Nuclear in evaluating the critical power ratio for boiling water reactor applications.

Exxon Nuclear considers material contained in the subject report to be proprietary. In accordance with the Commission's Regulation 10 CFR 2.790(b), the Affidavit enclosed with the Reference (2) letter covering the initial issue of XN-NF-524(P) provides the necessary information to support the withholding of the subject document from public disclosure. Fifteen (15) copies of the non-proprietary version of XN-NF-524(A) are enclosed for your use.

Exxon Nuclear is grateful for the Staff's review of the subject topical report. If you have any questions regarding this submission, please feel free to contact me, telephone (509) 375-8639.

Sincerely,

J.C. Chandler

J. C. Chandler, Lead Engineer
Reload Fuel Licensing

JCC:naa

cc: Mr. D. H. Moran (NRC)
Mr. L. E. Phillips (NRC)

Two Rids

*1007-1/22 Prop
1004-1/15 Non Prop*

8312050565 831123
PDR TOPRP EMVEXXN
PDR
C

AN AFFILIATE OF EXXON CORPORATION