

**ADVANCED NUCLEAR FUELS CORPORATION**

2101 HORN RAPIDS ROAD, PO BOX 130, RICHLAND, WA 99352-0130  
(509) 375-8100 TELEX: 15-2878

RAC:017:90  
February 22, 1990

Director of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Mail Station P1-137  
Washington, D. C. 20555

Gentlemen:

Reference: Letter, D. M. Crutchfield (USNRC) to G. N. Ward (Exxon Nuclear Company), "Safety Evaluation of Exxon Nuclear Company's Large Break ECCS Evaluation Model EXEM/PWR and Acceptance for Referencing of Related Licensing Topical Reports," July 8, 1986.

Subject: Transmittal of (A) Versions of the ANF EXEM PWR Topical Reports

Enclosed are fifteen copies of each of the proprietary and non-proprietary accepted (A) versions of the following topical reports:

XN-NF-82-20 (P)(A) and (NP)(A), Revision 1, "Exxon Nuclear Company Evaluation Model EXEM/PWR ECCS Model Updates," Advanced Nuclear Fuels Corp., Jan. 1990.

XN-NF-82-20 (P)(A) and (NP)(A), Revision 1, Supplement 1, "Exxon Nuclear Company Evaluation Model EXEM/PWR ECCS Model Updates: Revised FLECHT Bases Reflood Carryover and Heat Transfer Correlations," Advanced Nuclear Fuels Corp., Jan. 1990.

XN-NF-82-20 (P)(A) and (NP)(A), Revision 1, Supplement 3, "Exxon Nuclear Company Evaluation Model EXEM/PWR ECCS Model Updates: Response to NRC Request for Additional Information," Advanced Nuclear Fuels Corp., Jan. 1990.

XN-NF-82-20 (P)(A) and (NP)(A), Revision 1, Supplement 4, "Exxon Nuclear Company Evaluation Model EXEM/PWR ECCS Model Updates: Adjustments to FLECHT Based Heat Transfer Correlations," Advanced Nuclear Fuels Corp., Jan. 1990.

XN-NF-85-16 (P)(A) and (NP)(A), Volume 1 and Supplements 1, 2, and 3, "PWR 17x17 Fuel Cooling Test Program, Volume 1," Advanced Nuclear Fuels Corp., Feb. 1990.

XN-NF-85-16 (P)(A) and (NP)(A), Volume 2 Revision 1 and Supplement 1, "PWR 17x17 Fuel Cooling Test Program: Reflood Quench, Carryover, and Heat Transfer Correlations," Advanced Nuclear Fuels Corp., Feb. 1990.

9003090378 900222  
PDR TOPRP EMVEXXIN  
B PDC

*1008  
1/15 Sets  
Non-Prop Reports  
As Listed*

*Prop Reports  
Processed  
Separately*

Director of Nuclear Reactor Regulation  
February 22, 1990  
2

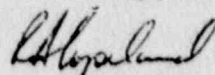
RAC:017:90

XN-NF-85-105 (P)(A) and (NP)(A), and Supplement 1, " Scaling of FCTF Based Reflood Heat Transfer Correlation for Other Bundle Designs," Advanced Nuclear Fuels Corp., Jan. 1990.

These reports comprise the remaining A versions of the EXEM PWR large break ECCS model for Advanced Nuclear Fuels. This EXEM PWR model was approved by the NRC in the referenced Safety Evaluation Report. These reports are being submitted in accordance with the procedures established in NUREG-0390. The affidavits enclosed with the original transmittal letters requesting the review provide the information required by 10 CFR 2.790(b) to support withholding the proprietary versions from public disclosure.

If there are any questions, or if further information is needed, please contact me at (509) 375-8290.

Sincerely,



R. A. Copeland  
Manager, Reload Licensing

/skm

Enclosures