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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co. 05000251
 AUTH. NAME: UHRIG, R. E. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIP. NAME: EISENHUT, D. G. RECIPIENT AFFILIATION: Division of Licensing

SUBJECT: Outlines Westinghouse topical repts re evaluation of effects of asymmetric LOCA loads as applicable to facility. Repts are part of response to 780125 info request. Submittal completes util planned effort re Task Action Plan A-2.

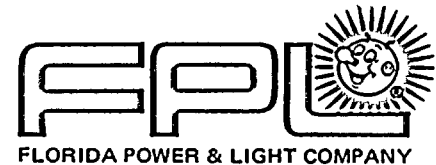
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 TITLE: Asymmetric LOCA Loads (USI A-2)

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August 6, 1981
L-81-339

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Eisenhut:

Re: Turkey Point Units 3 & 4
Docket No. 50-250 & 50-251
Asymmetric LOCA Loads (TAP A-2)

Westinghouse Electric Corporation on behalf of the Owners Group of Operating Utilities who are participating in the evaluation of the effects of asymmetric LOCA loads on the integrity of the primary reactor coolant system, has submitted to the NRC staff the following technical reports:

1. WCAP 9558, Revision 2, "Mechanistic Fracture Evaluation of Reactor Coolant Pipe Containing a Postulated Circumferential Through Wall Crack", May, 1981, Proprietary.
2. WCAP 9570, Revision 2, "Mechanistic Fracture Evaluation of Reactor Coolant Pipe Containing a Postulated Circumferential Through Wall Crack", June, 1981, Non-Proprietary.
3. WCAP 9787, Revision 0, "Tensile and Toughness Properties of Primary Piping Weld Metal for Use in Mechanistic Fracture Evaluation," May, 1981, Proprietary.
4. WCAP 9788, Revision 0, "Tensile and Toughness Properties of Primary Piping Weld Metal for Use in Mechanistic Fracture Evaluation," June, 1981, Non-Proprietary.

These reports are applicable to Turkey Point Units 3 & 4 and should be considered as part of our response to the NRC's January 25, 1978 information request.

WCAP 9558, Revision 2 supersedes Revision 1 of this report. Revision 2 of this report has been prepared to address questions raised by the Staff and their consultants on Revision 1. This Topical Report provides a detailed mechanistic evaluation of reactor coolant piping base metal properties. This evaluation demonstrates that under the worst combination of loadings, including the effects of the safe shutdown earthquake, a realistically postulated flaw will not propagate around the circumference of the pipe and cause a guillotine break.

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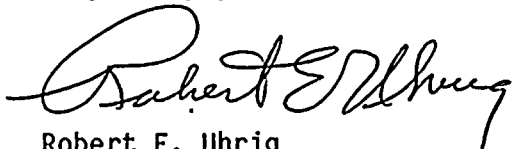
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WCAP 9787 supersedes the interim report of the same title. This report presents the results of an investigation undertaken to determine the tensile and fracture toughness of representative reactor coolant system weld samples. The results of the tensile and fracture toughness tests are summarized and the weld metal properties are compared with the same properties of the base metal. It was found that the weld metal properties fall within or above the scatter band of the properties of the base metal. Therefore, the conclusions reached in WCAP-9558, Revision 2 for base metal are equally applicable to weld metal.

This submittal in conjunction with our previous submittals of July 7, 1980 (L-80-213) and February 15, 1980 (L-80-58) complete Florida Power & Light Company's planned effort on the subject of Task Action Plan A-2

Very truly yours,



Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/JEM/ras

cc: Mr. J. P. O'Reilly, Region II
Harold F. Reis, Esquire

