



Commonwealth Edison

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July 31, 1981

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Zion Station Units 1 and 2
Asymmetric Vessel Loads
NRC Dockets 50-295 and 50-304



- Reference (a): January 25, 1980, letter from V. Stello to All PWR Licensees.
- (b): February 14, 1980, letter from D. L. Peoples to A. Schwencer.
- (c): September 4, 1980, letter from W. F. Naughton to H. R. Denton.

Dear Mr. Denton:

The following additional information regarding asymmetric LOCA loads on the Zion reactor vessels is submitted at the request of the NRC staff for their use in resolution of Topic A-2.

Westinghouse has submitted the following WCAPs to the NRC staff under cover letter NS-TMA-2455.

1. WCAP 9558 Rev. 2 (Proprietary) "Mechanistic Fracture Evaluation of Reactor Coolant Pipe Containing a Postulated Circumferential Through Wall Crack".
2. WCAP 9570 Rev. 2 (Non-Proprietary) "Mechanistic Fracture Evaluation of Reactor Coolant Pipe Containing a Postulated Circumferential through Wall Crack".
3. WCAP 9787 (Proprietary) "Tensile and Toughness Properties of Primary Piping Weld Metal for Use in Mechanistic Fracture Evaluation.
4. WCAP 9788 (Non-Proprietary) "Tensile and Toughness Properties of Primary Piping Weld Metal for Use in Mechanistic Fracture Evaluation.

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Mr. H. R. Denton

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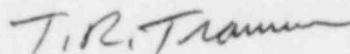
These WCAPs and the conclusions contained therein are applicable to the subject dockets and support the position taken by Commonwealth Edison in the February 14, 1980, submittal, D. L. Peoples to Mr. A. Schwencer, concerning Topic A-2.

The updated WCAP 9558 Rev. 2 is being submitted in response to a request made in the October 24, 1980, meeting of the NRC and Westinghouse Asymmetric Loads Owners Group. WCAP 9787 is being submitted in response to a request made in a February 26, 1980, meeting with the same attendees.

One (1) signed original and thirty-nine (39) copies of this letter are provided for your use.

Please address questions regarding this matter to this office.

Very truly yours,



T. R. Tramm
Nuclear Licensing Administrator

cc: Zion Resident Inspector

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