



Commonwealth Edison

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January 21, 1988

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Subject: Zion Nuclear Power Station Units 1 and 2
Proposed Amendment to Facility Operating
License Nos. DPR-39 and DPR-48
Low Temperature Overpressure Protection
NRC Docket Nos. 50-295 and 50-304
TAC Nos. 65487/8

References (a): May 29, 1987 letter from P.C. LeBlond
to the U.S. NRC
(b): December 22, 1987 letter from
D.R. Muller to L.D. Butterfield

Gentlemen:

Reference (a) transmitted a proposed amendment to Facility
Operating License Nos. DPR-39 and DPR-48, Appendix A, Sections 3.3.2.G and
4.3.2.G - Low Temperature Overpressure Protection. Reference (b) requested
additional information regarding the proposed amendment. This transmittal
is providing the requested information.

Reference (b) requested information regarding three specific
areas. Commonwealth Edison Company's response to these requests is provided
in the Attachment to this letter.

If any further questions arise regarding this matter, please direct
them to this office.

Very truly yours,

Peter LeBlond

P. C. LeBlond
Nuclear Licensing Administrator

Attachment

cc: Resident Inspector - Zion
A. B. Davis
J. A. Norris

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ATTACHMENT

RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION

REGARDING LOW TEMPERATURE OVERPRESSURE PROTECTION

Item #1

The flow rate of the charging and safety injection pumps will vary with changes in reactor coolant system pressure and/or charging flow control valve position. Thus, the pump specific flow curves provide conservative, limiting flow information for these four pumps. Attached are the eight pump performance curves for the charging and safety injection pumps at Zion Station.

Item #2

The flexibility to allow two charging pumps to be operable for the purpose of maintaining seal injection flow to the reactor coolant pumps is only addressed in the limiting condition operation of the proposed technical specification. This flexibility is not denoted within the surveillance section because it is anticipated that dual pump operation will only occur for periods substantially less than five minutes. As a result, the appropriate criteria to be utilized for a shiftly surveillance is the verification of the inoperability of the four of the five pumps. This flexibility is being added to the limiting condition for operation to insure that dual charging pump operation during pump switch over would not be considered to be a violation of section 3.3.2.G.2.

Item #3

The existing Zion Technical Specifications state on page 94 "operability of each low temperature overpressure protection channel requires the control switch to be in the proper position, ...". The main control board control switches for the PORV's have only three positions. These positions are open, auto (setpoint is 2335 psig), and auto low temp (setting of 435 psig).

Thus the explicit reference to a lift setting of 435 psig in section 3.3.2.G.1 can only mean that the main control board control switch has been placed in the "auto low temp position". Thus, the proposed amendment involves a clarification of the functional requirements for the low temperature overpressure protection system.

In addition, should the PORV control switch be mispositioned below an RCS temperature of 250°F, an alarm would be generated on the main control board.

PT-21 CENTRIFUGAL CHARGING PUMPS OPERATING CURVES

PT-21
Rev. 7





