



Public Service

**Public Service
Company of Colorado**
P.O. Box 840
Denver CO 80201-0840

October 11, 1991
Fort St. Vrain
Unit No. 1
P-91298

A. Clegg Crawford
Vice President
Nuclear Operations

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

ATTN: Dr. Seymour H. Weiss, Director
Non-Power Reactor, Decommissioning
and Environmental Project Directorate

Docket No. 50-267

SUBJECT: Proposed Technical Specification Amendment to LCO 4.2.15

Dear Dr. Weiss:

This is an amendment request to Fort St. Vrain Technical Specification LCO 4.2.15, to permit operation of the Prestressed Concrete Reactor Vessel (PCR) liner cooling water system at somewhat lower temperatures than currently specified. Due to the low decay heat generation rate of the fuel in the PCR it is necessary to heat the PCR liner cooling water system, by supplying steam from an auxiliary boiler to coils in a PCR liner cooling water surge tank, to maintain the average PCR liner cooling water temperature above the 100 degrees F limit specified in LCO 4.2.15.e). This amendment would lower the minimum specified average cooling water temperature from 100 to 85 degrees F, significantly reducing the amount of heat which must be supplied to the PCR liner cooling water system, and thereby reducing reliance on the auxiliary boilers.

A summary of the proposed changes is included as Attachment 1. The proposed changes are included in Attachment 2. A No Significant Hazards Consideration Analysis is included as Attachment 3. Attachment 4 is Engineering Evaluation EE-46-0007, Rev. B, "Engineering Evaluation of Prestressed Concrete Reactor Vessel and Core Support Floor Structures for a Proposed System 46 Temperature Change".

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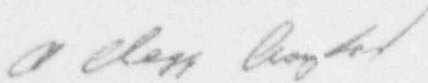
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P-91298
Page 2
October 11, 1991

PSC requests that the NRC approve this Technical Specification amendment request as soon as reasonably possible. Maintaining the PCRV liner cooling water system average temperature above 100 degrees F is no longer necessary for safety, is wasteful of steam and fuel oil, and requires dependence on auxiliary boilers that have a history of reliability problems. During cold winter weather, a boiler outage could result in a Technical Specification violation. In the summer, PSC can use warm ambient temperatures in the reactor building to heat the PCRV and reduce reliance on the boilers; however, this creates an undesirably hot environment for defueling workers. PSC has installed a new auxiliary boiler and added a deaerator to improve the reliability of our steam heating equipment, but we are concerned about the continuing need for and impact of boiler outages.

Should you have any questions concerning this submittal, please contact Mr. M. H. Holmes at (303) 400-6960.

Very truly yours,



A. Clegg Crawford
Vice President
Nuclear Operations

ACC/JRJ:km
Attachments

cc: Regional Administrator, Region IV

Mr. J. B. Baird
Senior Resident Inspector
Fort St. Vrain

Mr. Robert M. Quillin, Director
Radiation Control Division
Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

in the Matter of the Facility Operating License)
of)
Public Service Company of Colorado) Docket No. 50-267
Fort St. Vrain Unit No. 1)

AFFIDAVIT

A. Clegg Crawford, being first duly sworn, deposes and says: That he is Vice President, Nuclear Operations, of Public Service Company of Colorado, the Licensee herein, that he has read the foregoing Application for Amendment to Appendix A of the Facility Operating License and knows the contents thereof, and that the statements and matters set forth therein are true and correct to the best of his knowledge, information and belief.

A. Clegg Crawford
A. Clegg Crawford
Vice President
Nuclear Operations

STATE OF COLORADO)
COUNTY OF DENVER)

Subscribe and sworn to before me, a Notary Public on this
11th day of October, 1991.

Delores Romero
Notary Public

My commission expires January 6, 1993.