



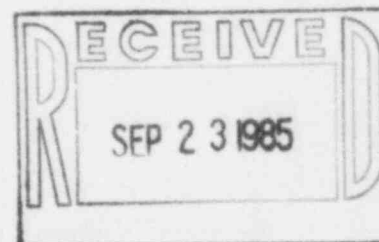
Public Service

Public Service
Company of Colorado

2420 W. 26th Avenue, Suite 100D, Denver, Colorado 80211

September 18, 1985
Fort St. Vrain
Unit No. 1
P-85321

Regional Administrator
Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



Attn: Mr. Dorwin Hunter

DOCKET NO.: 50-267

SUBJECT: Long Term Improvements

REFERENCE: NRC Letter, Denton to Walker,
dated October 16, 1984 (G-84392)

Dear Mr. Hunter:

In the reference cited above, the NRC requested that Public Service Company (PSC) submit a schedule for completion of long term actions required within 60 days following restart. Attachment 1 to this letter identifies those items listed in G-84392 and provides the status of these items.

Should you have any questions concerning these items, please contact Mr. M.H. Holmes at (303) 571-8409.

Very truly yours,

M. H. Holmes

for

H.L. Brey, Manager
Nuclear Licensing and Fuels Division

Attachment

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ACTIONS REQUIRED FOLLOWING RESTART

NOTE: NRC items correlate to items identified in Reference 1, Page viii.

NRC Item a.: Provide continuous recording of a representative sample of CRDM temperatures at all operating conditions to provide part of the data necessary for the longer term program noted below.

PSC Response: In PSC letter P-85199, dated June 14, 1985, and in letter P-85242, dated July 10, 1985, PSC has indicated that per the interim Fort St. Vrain Technical Specifications for control rods, CRDM motor temperatures will be monitored to ensure that they are less than 250 degrees Fahrenheit. In the event CRDM motor temperatures exceed 215 degrees Fahrenheit, the temperatures will be recorded. PSC has installed a multipoint recording device which provides frequent monitoring (at least one reading per minute) for each CRDM assembly motor temperature.

NRC Item b.: Determine whether compensating design and/or operational modifications are needed to minimize moisture ingress to the CRDM cavities and minimize temperatures in the vicinity of the control rod drives. In the event that temperatures recorded during plant operation prove to be higher than those for which the assembly was initially qualified, take immediate steps to perform environmental requalification testing of a CRDM assembly or hold temperatures to that for which the CRDM has been qualified.

PSC Response: During the recent outage, PSC installed knockout pots, level alarms, and a moisture detector to minimize moisture ingress into the CRDM cavities. PSC is evaluating the need for design and/or operational modifications to minimize temperatures in the vicinity of the control rod drives and this evaluation is planned to be complete by January, 1986. Information regarding this item was discussed in some detail in PSC letters P-85032, dated January 30, 1985, and P-85242, dated July 10, 1985. Presently, PSC has a program under way to requalify the CRDMs for operating temperatures up to 300 degrees Fahrenheit. This program is expected to be complete by January, 1987.

NRC Item c.: The present Watt-meter testing of the shim motor during drive-in and drive-out is not a reliable method to verify full insertion or withdrawal of control rods. This test should be refined or an alternative, reliable test for control rod position verification must be developed.

PSC Response: In letter P-85262, dated July 31, 1985, PSC submitted to the NRC a revised surveillance test (SR-TE-9-X, Issue 1) concerning Watt-meter testing.

NRC Item d.: Investigate a design change to provide a positive stop on the CRDM position indicator potentiometer shaft to prevent control rod overtravel and provide the results to the NRC.

PSC Response: PSC is evaluating proposed changes and is planning to complete this evaluation by January, 1986.

NRC Item e.: Conduct an integrated systems study to resolve rod position indication, maintenance, and operability questions.

PSC Response: This systems study is planned to be complete by June, 1986.

NRC Item f.: Establish procedures for verification and sign-off by the Maintenance Quality Control (MQC) of key steps in Technical Specification surveillance procedures.

PSC Response: These procedures are planned to be completed and implemented by January, 1986.

NRC Item g.: Establish a procedure for review and concurrence by the QA organization of safety-related procedures and changes thereto.

PSC Response: These procedures are planned to be completed and implemented by July, 1986.

NRC Item h.: At the time of the audit, the MQC group was reviewing each completed surveillance procedure. The staff concluded that this practice should continue.

PSC Response: This practice has been formally implemented by PSC Procedure, MQCIM-2, Issue 1, dated July 1, 1985.

NRC Item i.: A review by the QA organization of the content and adequacy of the Technical Specification procedures is important, and the staff has determined that this should be implemented.

PSC Response: This program is planned to be implemented by January, 1986.