

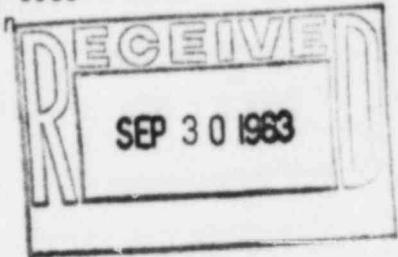


Public Service Company of Colorado

50-267

16805 Road 19 1/2, Platteville, Colorado 80651-9298

September 27, 1983
Fort St. Vrain
Unit No. 1
P-83325



Mr. John T. Collins, Regional Administrator
Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011

Reference: Facility Operating License
No. DPR-34

Docket No. 50-267

Dear Mr. Collins:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/79-35, Reportable Occurrence Report No. 50-267/81-008, Reportable Occurrence Report No. 50-267/81-030, and Reportable Occurrence Report No. 50-267/81-055, Finals, submitted per the requirements of Technical Specification AC 7.5.2(b)2.

Also, please find enclosed one copy of the Licensee Event Report for Reportable Occurrence Report No. 50-267/79-35, Reportable Occurrence Report No. 50-267/81-008, Reportable Occurrence Report No. 50-267/81-030, and Reportable Occurrence Report No. 50-267/81-055.

Very truly yours,

Don Warembourg by Milt McBride

Don Warembourg
Manager, Nuclear Production

DW/djm

Enclosures

cc: Director, MIPC

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REPORT DATE: September 27, 1983

REPORTABLE OCCURRENCE 79-35
ISSUE 1

OCCURRENCE DATE: August 31, 1979

Page 1 of 4

FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
16805 WELD COUNTY ROAD 19 1/2
PLATTEVILLE, COLORADO 80651-9298

REPORT NO. 50-267/79-35/01-X-1

Final

IDENTIFICATION OF
OCCURRENCE:

| An engineering field audit and preliminary analysis of a random sample of safety related system piping and associated hangers found inconsistencies that may have jeopardized the operability of systems in the event of a design basis earthquake.

| Due to these inconsistencies, Public Service Company elected to suspend operation of the Fort St. Vrain, Unit No. 1, at 1800 hours on September 1, 1979.

| An investigation of the inconsistencies was initiated.

| This is reportable per Fort St. Vrain Technical Specification AC 7.5.2(a)9.

EVENT
DESCRIPTION:

| Pursuant to IE Bulletin No. 79-14, Public Service Company of Colorado completed the field audit and a preliminary engineering analysis of a random sample of as-built safety related piping isometric and associated hanger drawings as committed to in Public Service Company letter P-79161.

The audit included a field verification of the as-built installation of the piping shown on 26 Class I piping isometric drawings and the 94 associated hanger drawings. The general validity of the seismic design inputs documentation on 18 of the isometric drawings and 64 of the hanger drawings was confirmed.

On the remaining eight isometric drawings and 30 hanger drawings, inconsistencies judged to be potentially significant were identified between the field installation and the reference documentation.

| An analytical evaluation of the noted isometric drawing inconsistencies indicated that they would not result in invalidation of the seismic qualification of the piping depicted on the subject isometric drawing.

An analytical analysis of the inconsistencies identified in the hangers indicated that 18 of the hangers of concern fulfilled Class I design requirements.

The remaining 12 hangers appeared to have inconsistencies that may have jeopardized the operability of the associated systems in the event of a design basis earthquake. Because the sampling of isometric drawings and associated hangers was made on a random basis, no conclusions could be drawn as to the continued operability of those systems or portions of systems required to remain operable during and after a design basis earthquake.

On the basis of the results of the audit, Public Service Company of Colorado concluded that the piping system seismic hanger/support system for the Class I piping may not have been installed per the design requirements defined in the Final Safety Analysis Report and may require corrective modifications to bring the "as-built" systems into agreement with the design intent.

Because of the inconsistencies noted, the Public Service Company of Colorado temporarily suspended operation of the Fort St. Vrain unit at approximately 1800 hours on September 1, 1979.

After further analysis, using more sophisticated analytical methods, it was determined that none of the systems examined as of September 13, 1979 were impaired per the Final Safety Analysis Report since the individual hangers were acceptable or, the associated piping and its remaining hangers would remain operable during the design basis earthquake.

CAUSE

DESCRIPTION:

The inconsistencies between the design and installation of the various hangers required re-analysis of the piping/hanger systems. The time involved did not allow a final resolution of the problem before a report was submitted. Therefore, the plant was shutdown pending outcome of the investigation and remained in a shutdown condition until September 15, 1979, when the reactor was taken critical. Reactor power operation (greater than two percent) resumed September 25, 1979, after inconsistencies noted in a random sample audit conducted on safety related piping systems had been resolved.

After completion of the random sample audit, a comprehensive program to comply with the requirements of IE Bulletin No. 79-14 was begun in late 1979.

| CORRECTIVE
| ACTION:

| As a follow-up effort to IE Bulletin No. 79-14, the Fort St. Vrain
| Seismic Piping System Redocumentation Program was initiated.
| Correction of all identified discrepancies and distribution of final
| drawings and analytical packages has been completed in accordance
| with IE Bulletin No. 79-14 and the Seismic Redocumentation Program
| Procedures.

| No further corrective action is anticipated or required.

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