

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-267/88-24

Operating License: DPR-34

Docket: 50-267

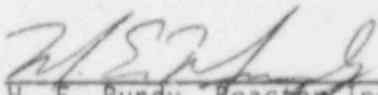
Licensee: Public Service Company of Colorado
2420 West 26th Avenue, Suite 15c
Denver, Colorado 80211

Facility Name: Fort St. Vrain

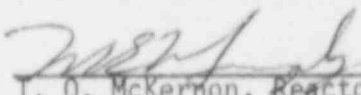
Inspection At: Platteville, Colorado

Inspection Conducted: September 26-30, 1988

Inspectors:

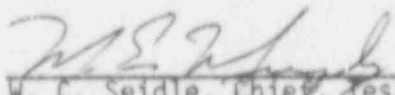
for 
H. F. Bundy, Reactor Inspector, Test Programs
Section, Division of Reactor Safety

10/12/88
Date

for 
T. O. McKernon, Reactor Inspector, Test
Programs Section, Division of Reactor Safety

10/12/88
Date

Approved:

for 
W. C. Seidle, Chief, Test Programs Section
Division of Reactor Safety

10/12/88
Date

Inspection Summary

Inspection Conducted September 26-30, 1988 (Report 50-267/88-24)

Areas Inspected: Routine unannounced inspection of safety-related surveillance testing and post-modification testing.

Results: Within the two areas inspected, no violations or deviations were identified.

DETAILS1. Persons ContactedPSC

- *R. Williams, Jr., Vice President, Nuclear Operations
- *D. Warembourg, Manager, Nuclear Engineering
- *M. J. Ferris, QA Operations Manager
- *M. E. Niehoff, Nuclear Design Manager
- *M. H. Holmes, Nuclear Licensing Manager
- *N. Snyder, Maintenance
- *Hugh O'Hagan, Outage Manager
- *M. Cappello, Central Planning and Scheduling Manager
- *L. Dee Scott, QA Services Manager
- *F. J. Borst, Nuclear Training Manager
- *J. M. Gramling, Supervisor, Nuclear Licensing-Operations
- *M. Block, Systems Engineering Manager
- *H. L. Brey, Manager, Nuclear Licensing and Resources
- *P. F. Tomlinson, Manager, Quality Assurance
- *M. E. Deniston, Superintendent of Operations
 - T. Staley, Nuclear Engineering
 - M. Roush, Nuclear Engineering
 - J. J. McCauley, Superintendent of I&C Maintenance
 - R. W. Brunson, Supervisor, Systems Engineering

NRC

- *R. E. Farrell, Senior Resident Inspector
- P. Michaud, Resident Inspector

*Denotes those individuals attending the exit interview on September 30, 1988.

2. Complex Surveillance Observations (61701)

The purpose of this part of the inspection was to ascertain that functional testing of selected systems was performed in accordance with regulatory requirements, applicable industry standards, and the licensee's procedures. To determine requirements and administrative controls, the NRC inspector reviewed the following documents:

- ° Technical Specification (TS) 5.0, "Surveillance Requirements"
- ° TS 5.4, "Instrumentation and Control Systems - Surveillance and Calibration Requirements"
- ° Station Manager Administrative Procedure (SMAP)-1, Issue 7, "TS Surveillance Testing Program"

- ° Administrative Procedure G-7, Issue 20, "FSV Project Personnel Training and Qualification Programs"
- ° Nuclear Plant Administrative Procedure (NPAP)-17, Issue 2, "Out of Tolerance Report Form"

To ascertain compliance with requirements, the NRC inspector reviewed the following surveillance test procedures:

- ° SR 5.4.1.1.5.d-R, Issue 24, Procedure Deviation Report (PDR) 88-0817, "Wide Range Power Channel Calibration"
- ° SR 5.4.1.3.1.d-R1, Issue 13, PDR 88-0740, "Circulator Speed and Feedwater Flow Refueling Calibration Loop I"

The procedures appeared to satisfy all requirements and were consistent with industry standards and good engineering practice. However, Procedure SR 5.4.1.1.5.d-R had eight PDRs attached, of which five had been issued prior to the start of the test. The NRC inspector observed that parts of the procedure were confusing because of the PDRs and that a reissuance incorporating all the PDRs would have been appropriate.

The NRC inspector verified that the test personnel assigned to perform the above procedures were qualified in accordance with the licensee's administrative procedures. The NRC inspector witnessed partial performance of a work order to trouble shoot problems encountered in performing Procedure SR 5.4.1.1.5.d-R and to perform applicable retesting. All work observed was properly performed in accordance with the work order and the licensee's administrative procedures.

No violations or deviations were identified.

3. Modification Testing (72701)

During this portion of the inspection, the NRC inspector reviewed modification packages to include design evaluations, as-built drawings, installation instructions, cold-checkout tests, and functional tests. The following modification packages and associated controlled work procedures (CWPs) were reviewed:

- ° Changes Notice (CN)-2176, "SLRDS - Tie-in Console to PPS System," CWPs 86-295, 86-296
- ° CN-2283, "Install SLRDIS Control Room Cabinets," CWPs 86-260, 86-261
- ° CN-2190, "SLRDIS-Bypass Valves Modifications," CWPs 86-193, 86-194
- ° CN-1976, "Replacement of bolts on the circulators to avoid corrosion"
- ° CN-1848, "Install metering sample Valve in sample line to grab sample facility"

The NRC inspector reviewed the above documents to verify that modification work packages included wiring continuity and separation checks, cleaning and flushing requirements, and connection of support systems. The licensee properly reviewed completed test procedures to verify test results were within the stated acceptance criteria and that cited deviations were resolved and retesting accomplished. Furthermore, the NRC inspector verified that the licensee's functional tests were satisfactorily completed, reviewed, and quality control verification of critical step completion had been accomplished. Test records had received an independent QA audit and any changes to the test procedures were reviewed and approved in accordance with the Technical Specification. In addition, the NRC inspector verified that the level of performance for the steam leak rupture detection isolation system (SLRDIS), CNs 2176, 2283, and 2190 were as described in license amendment No. 50, dated June 24, 1987.

Within the scope of this inspection, no violations or deviation were identified.

4. Exit Interview

The NRC inspectors met with licensee personnel (denoted in paragraph 1) on September 30, 1988. The NRC inspectors summarized the scope and findings of the inspection. The licensee did not identify as proprietary any of the information provided to, or reviewed by the NRC inspectors.