

## Omaha Public Power District

1623 HARNEY ST OMAHA, NEBRASKA 68102 TELEPHONE 538-4000 AREA CODE 40



To ADM/DMB:

PDR  
LPDR  
NSIC  
ADM/TIDC  
ADM/RSB

February 27, 1981

Mr. K. V. Seyfrit, Director  
U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Reference: Docket No. 50-285

Dear Mr. Seyfrit:



Omaha Public Power District's letter dated January 30, 1981, addressed environmental qualification of safety-related electrical equipment required for cold shutdown. Enclosure 13 to that letter identified several items to be resolved. Additional information on two of the open items is attached as discussed below.

Item 7 concerned the ability of solenoids on valves HCV-238 and HCV-239 to survive submergence. The solenoids for these valves were installed at an elevation slightly above the projected flood level. To provide additional assurance of operability, these solenoids have been elevated two feet above the flood level and a revised qualification worksheet is attached as Enclosure 1.

Open Item 6 concerned qualification of the Conax instrument and cable penetrations. Enclosure 2 provides a description of the District's program to resolve this concern.

Sincerely,

W. C. Jones  
Division Manager  
Production Operations

WCJ/KJM/TLP:jmm

Enclosures

cc: U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Washington, D.C. 20555

LeBoeuf, Lamb, Leiby & MacRae  
1333 New Hampshire Avenue, N.W.  
Washington, D.C. 20036

81042 90434

SYSTEM COMPONENT EVALUATION WORK SHEET

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS
	Parameter	Specification	Qualification	Specification	Qualification		
System: Chemical and Volume Control System Item No.: HCV-238, 239 See Enclosure 18  Component: Solenoid  Manufacturer: ASCO  Model No.: NP8320A185E  Function: Remote Operation of valves  Accuracy - Spec: N/A Demon: N/A Service: See Function  Location: Containment	Operating Time	Note 1	Note 1	Note 1	2	Type Test	NONE
	Temperature °F	288°F	340°F	1	2	Type Test	NONE
	Pressure PSig	60 psig	110 psig	1	2	Type Test	NONE
	Relative Humidity %	100%	100%	1	2	Type Test	NONE
	Chemical Spray	1700 ppm Boric Acid	3000 ppm PH10	1	2	Type Test	NONE
	Radiation	9.9 x 10 <sup>6</sup>	2x10 <sup>8</sup> R	1	2	Type Test	NONE
	Aging	N/A	10 yrs	N/A	10 yrs 3	Type Test	NONE
Flood Level Elev: 1000.9' Above Flood Level: Yes	Submergence	N/A	N/A	N/A	N/A	N/A	NONE

Enclosure 1

Documentation References:

- 1) Enclosure #1.
- 2) ASCO Test Report Model AQS 21678 ITR
- 3) ASCO letter dated July 10, 1980

Notes:

- 1) 1000 Hr operation
- 2) No special installation required coils operable post LOCA with moisture.

Enclosure 2

The District has completed its records file search with the Conax Corporation, the Fort Calhoun Station electrical penetration vendor. The results of this records search revealed information that substantiates the test summary report IPS-435 on radiation. It is the District's opinion that, based on the test summary and the LOCA test, the Fort Calhoun Station penetrations are adequately qualified to continue operation. However, due to industry information which indicates Teflon is sensitive to radiation, the District feels that a sequential test of the penetrations, as outlined in the DOR Guidelines, is in order to insure that the penetrations are completely qualified. The District is presently investigating what testing is required. It is expected that the test plan will be completed, a testing laboratory selected, and a test schedule will be completed within 60 days. The District will provide the NRC with a test plan and schedule when completed.