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Washington Public Power Supply System

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REGION V MRE

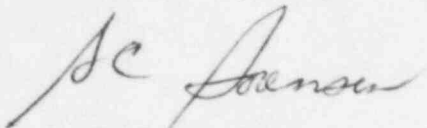
Mr. J. B. Martin
Regional Administrator
U. S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Subject: NUCLEAR PROJECT NO. 2
10CFR50.55(e) REPORTABLE CONDITION #295
STANDBY GAS TREATMENT UNIT CHARCOAL FILTER BED LEAKAGE

Reference: Telecon dated November 15, 1983, R.T. Johnson to B. Dodds.

In accordance with the provisions of 10CFR50.55(e), your office was informed by the reference, of the above subject condition. The attachment provides the Project's final report on Condition #295.

If there are any questions concerning this matter, please contact Roger Johnson, Project QA Manager, WNP-2, at (509) 377-2501, extension 2712.



G. C. Sorensen
Manager, Regulatory Programs

RTJ/kd

Attachment: As stated

cc: W.S. Chin, BPA
N.D. Lewis, EFSEC
A. Toth, NRC Resident Inspector
Document Control Desk, NRC

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397
LICENSE NO. CPPR-93
10CFR50.55(e) CONDITION 295
STANDBY GAS TREATMENT SYSTEM LEAKAGE OF CHARCOAL FILTER BED LEAKAGE

FINAL REPORT

Description of the Deficiency

Operational testing of the Standby Gas Treatment (SGT) unit caused the activated charcoal in the filter beds to leak out into the downstream filter compartment. The perforated plates which create the container for the activated charcoal in the unit were determined to be warped, apparently by the spot welding of the perforated material to the structural frame of the filter section. These warped areas vary in size around the perimeter of the filter frames on both filter trains being most significant on unit SGT-CF-1B2.

Safety Significance

The SGT system is a safety-related system to collect and process the leakage of radioactivity from the primary containment and to enable purging of the primary containment when radiation levels within the containment are too high to permit purging through the reactor building exhaust system. The SGT system has redundant filter trains and control configuration to provide maximum reliability to control plant discharges to the environment. The loss of activated charcoal filter media, had it not been identified, could have resulted in a common mode failure of both filter trains when required to mitigate the affects of a loss of coolant accident. The condition is considered to be reportable under the criteria of 10CFR50.55(e) and Part 21.

Corrective Action

Engineering direction has been issued by the Supply System to eliminate the leakage of the charcoal from the filter. Material has been fitted into the gap areas between the frame and the perforated plates created by the warpage and riveted in place. Very small gaps have been sealed with GE Sealant No. 727 (Reference S215-II6137).

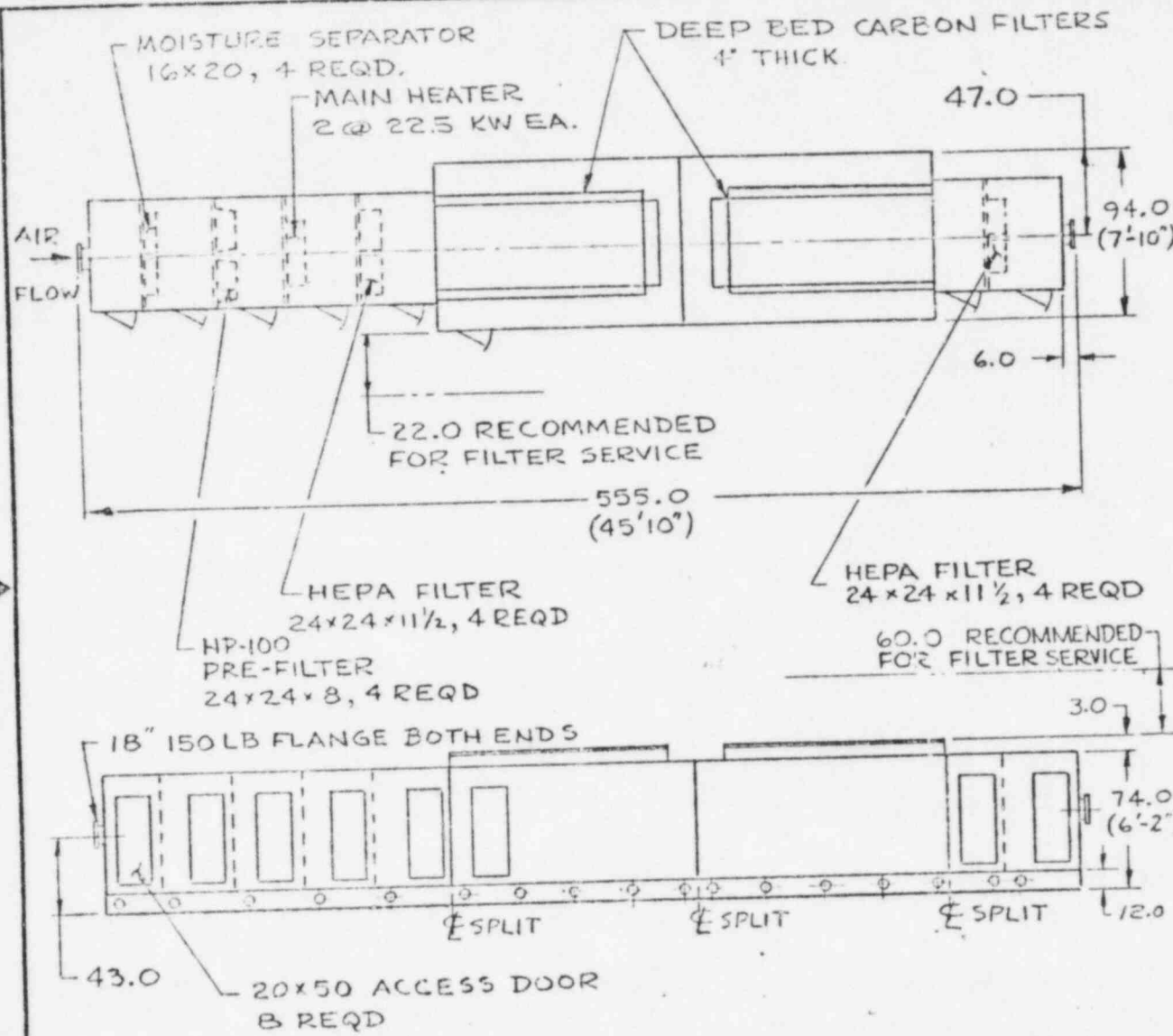
The corrective action has been implemented, as required, and the filters are scheduled to be retested during the week of December 2, 1984.

Action to Prevent Recurrence

Startup testing remains the principal tool for identifying equipment operational problems of this nature.

The units were acquired from the Farr Company of Los Angeles and their shop inspection and testing were the appropriate means to have prevented the deficiency. Farr Company has been contacted by the Supply System Procurement Quality Assurance Department to ascertain their corrective action. Farr has been instructed to review this item for reportability under 10CFR21.

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PART NO.	DESCRIPTION	DWG. NO.
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- NOTES:
1. CASING DESIGN PRESSURE -15 INS. WG TO +2.0 PSI.
 2. CLEAN FILTER RESISTANCE @ 4,000 CFM IS 8.5 INS. WG.
 3. MAX CASING LEAK RATE IS 0.01% OF RATED FLOW AT 10 INS. WG.
 4. MATL: 11 GA (.120) COLD ROLLED STEEL PER ASTM-A-366.
 5. FINISH: SAND BLAST PER SSPC-SP6 PRIME WITH 4.5 MILS KEELER & LONG 7107 FINISH WITH 2.5 MILS KEELER & LONG 7475
 6. GROUP 1 AS SHOWN, TAG NO. SGT-FU-1A GROUP 2 OPPOSITE, TAG NO. SGT-FU-1B

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REV.	DATE	DESCRIPTION	DISP.	E.W.O.	OFF	CK	DD	APP
UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN INCHES (INSIDE END RADII = 1 METAL THICKNESS) TOLERANCES ARE:			DO NOT SCALE PRINT					
1 PLACE DECIMAL *			NO. REQ'D PER ASSEM.			EST. WT.		
2 PLACE DECIMAL *			NEXT ASSEMBLY					
3 PLACE DECIMAL *			SCALE 3/16" = 1'-0"			CLASSIFICATION		
FRACTIONAL * ANGULAR *						V-0204		
STANDBY GAS TREATMENT SYST.								
HANFORD NO. 2								
WASHINGTON PUBLIC POWER SUPPLY SYST.								
FARR COMPANY LOS ANGELES, CALIFORNIA			CODE		DRAWING NO.		REV.	
					A-52890		A	