



LER 79-021  
 Omaha Public Power District  
 Fort Calhoun Station Unit No. 1  
 Docket No. 05000285

Attachment 1

<u>Hanger/ Support No.</u>	<u>System</u>	<u>Discrepancy Description</u>	<u>Corrective Action</u>
FWH-128	Auxiliary Feedwater	Missing.	Corrective action was taken immediately. A temporary hanger was fabricated and installed to carry the design load per direction of Generating Station Engineering. Subsequent analysis by Gilbert/Commonwealth showed the line to be adequately supported both before and after the hanger was installed.
WDH-3	Waste Disposal	Missing	A hanger was installed per the design drawings. Subsequent review by G/C indicates that if the hanger was installed as designed then no further corrective action is required.
WDH-78	Waste Disposal	Hanger rod not attached to ceiling.	The hanger was installed per the design drawings. Subsequent review by G/C indicates that if the hanger was installed as designed that no further corrective action is required.

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Hanger Support No.	System	Discrepancy Description	Corrective Action
WDH-93	Waste Disposal	Missing.	The hanger was installed per the design drawings. Subsequent review by G/C indicates that if the hanger was installed as designed then no further corrective action is required.
CHVH-28	Chemical and Volume Control	Missing	Same as above.
CHVH-32	Chemical and Volume Control	Missing	Same as above.
CHVH-59	Chemical and Volume Control	Mislocated and not built as designed.	Hanger installed similar to design. No analysis received by plant to date.
CHVS-33	Chemical and Volume Control	Base welded down, not free to move as designed.	Support was returned to the design configuration. Subsequent review by G/C indicates that if the hanger is as designed then no further corrective action required.

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Hanger/ Support No.	System	Discrepancy Description	Corrective Action
CHVS-102	Chemical and Volume Control	Wrong configuration	Discrepancy sheet sent for analysis. Subsequent ana- lysis by G/C indicated a stiffening number should be added to an existing construction hanger. The plant took prompt correc- tive action per the G/C design.
CHVS-102A	Chemical and Volume Control	No hanger/support drawing	
CHVH-107	Chemical and Volume Control	Missing	
CHVS-103	Chemical and Volume Control	Missing	It was noted that the line was supported by construc- tion hangers and a discre- pancy sheet sent for analy- sis. Subsequent analysis by G/C indicated additional restraint was needed. A restraint was added per GSE design.
CHVS-104	Chemical and Volume Control	Missing	
CHVS-104A	Chemical and Volume Control	Missing	
CHVS-106	Chemical and Volume Control	Missing	
CHVH-109	Chemical and Volume Control	Missing	
CHVH-111	Chemical and Volume Control	Missing	

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Hanger/ Support No.	System	Discrepancy Description	Corrective Action
ACH-246	Auxiliary coolant	Not anchored to ceiling per design drawing.	Analysis showed that the hanger would be overstressed. The hanger was anchored to ceiling per GSE direction.
ACS-151	Auxiliary coolant	Washers on anchor bolts too small for holes in base plate.	Larger washers were installed. Subsequent review by G/C indicated that if proper washers were installed then no further corrective action is required.
ACS-326	Auxiliary coolant	Four concrete anchor bolts missing. Support ACS-326 and ACS-335A mistakenly interchanged during construction.	Analysis showed the support would be overstressed. The support was re-designed and installed by G/C since clearance between the pipe and wall would not allow installing more anchor bolts for the existing hanger.
ACS-335A	Auxiliary coolant	Four concrete anchor bolts missing.	Same as above.

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Hanger/ Support No.	System	Discrepancy Description	Corrective Action
ACS-202	Auxiliary coolant	Guide bars on base attached with edge welds rather than fillet welds.	Modification to base plates and guide bars was made per GSE direction.
SIH-65/67	Safety Injection	Mislocated.	The plant relocated these hangers. Subsequent review by G/C showed that the line was adequately supported both before and after the relocation of the hangers.

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Hanger/ Support No.	System	Discrepancy Description	Corrective Action
SIH-66	Safety Injection	Hanger on top of lines instead of underneath as designed.	Corrective action was taken immediately. Subsequent review by G/C indicated that if the hanger was installed as designed then no further corrective action is required.
SIH-134	Safety Injection	Missing.	The hanger was installed per design. Subsequent review by G/C indicated that if the hanger was installed as designed then no further corrective is required.
SIS-32A	Safety Injection	Configuration different than design.	Analysis by G/C showed that additional anchor bolts were required and a stiffening member should be added to the support structure. The plant took prompt corrective action per G/C recommended modification.

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Attachment 2

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

The apparent cause of the discrepancies was either the lack of emphasis placed on quality control of the seismic restraint installation during construction or the lack of documentation of approved changes to the design during construction.

After Plant Review Committee evaluation, some corrective actions were taken before analysis. Other discrepancies were forwarded for analysis when the need for corrective action was not obvious. In all cases when action was taken either before or after analysis, the repairs were made in accordance with the limiting conditions of operation of the Technical Specifications in order to ensure timely repair.

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Attachment 3

Safety Analysis

Analyses performed to date have shown some of the lines to be overstressed but none have been deemed to be inoperable as defined in the Technical Specifications and thus the capability to safely shut down the plant was not jeopardized.

When it was apparent from the initial engineering evaluation that a line was not properly restrained, or analyses indicated that a restraint or line would be overstressed during a seismic event, any applicable limiting conditions for operations of the Technical Specifications were adhered to during the repair process to ensure timely completion.

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Attachment 4

Failure Data

This is the initial report of discrepancies found by the inspection for NRC I.E. Bulletin 79-14 on which corrective actions were taken.

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