

LER 82-003
Omaha Public Power District
Fort Calhoun Station Unit No. 1
Docket NO. 05000285

ATTACHMENT NO. 1

Safety Analysis

The Fort Calhoun Station is designed such that no single failure, by itself, can adversely affect the safe shutdown of the plant.

The function of HCV-507A (and its redundant valve HCV-507B) is to isolate the gas vent header at the containment boundary when activated by a Containment Isolation Actuation Signal. Both HCV-507A and HCV-507B are energize-to-open/fail closed valves. During the time HCV-507A was inoperable due to a stuck solenoid valve plunger, the redundant valve HCV-507B was operable and would have been capable of isolating the vent header at the containment pressure boundary had it been necessary. During the time HCV-507A was being repaired, the operation of HCV-507B was verified by cycling the valve.

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Corrective Action

M.O. #13830 was written to investigate the closure problem with HCV-507A. Subsequently, it was determined that the solenoid plunger had stuck in the "energized" position, thereby not allowing air to vent from the operator and allow the valve to close. The solenoid plunger was freed and cleaned and the solenoid, as well as the valve, were satisfactorily tested and returned to operable status. Since the valve was returned to status in less than 6 hours (the time allowed for repair without having to attain hot shutdown), the plant remained at approximately 99% power.

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Failure Data

This is the first reportable failure of a containment isolation valve due to a solenoid valve malfunction at the Fort Calhoun Station.