





LER SUPPLEMENTAL INFORMATION

BFRO-50- 296 / 799 Technical Specification Involved NA

Reported Under Technical Specification 6.7.2.b.4

Date of Occurrence 7/17/79 Time of Occurrence 1404 Unit 3

Identification and Description of Occurrence:

During normal startup operation, while shifting from auxiliary to nuclear steam to heat the offgas recombiner preheaters, the nuclear steam supply valves for A and B preheaters (FCV-1-176 A and B) both failed to open fully resulting in recombiner temperature below the minimum for H<sub>2</sub> and O<sub>2</sub> catalytic recombination. The resulting buildup of H<sub>2</sub> in the system piping ignited, damaging three of the systems HEPA filters.  
Conditions Prior to Occurrence:

Unit operating at 40 percent power.

Action specified in the Technical Specification Surveillance Requirements met due to inoperable equipment. Describe.

The unit was manually scrammed.

Apparent Cause of Occurrence:

FCV 1-176A failed due to binding of an auxiliary contact in its controller (GE0378-X0862M01A08). FCV 1-176B failed due to dirty contacts on the torque switch in its actuator (limitor, SMB-000).

Analysis of Occurrence:

There was no hazard to the public health or safety.

Corrective Action: FCV 1-176A controller auxiliary contact was lubricated. FCV 1-176B limitorque operator torque switch contacts were cleaned. Three of the four system HEPA filters were replaced. Inspection of the system charcoal filters showed no damage. Recurrence control: System operation instructions will require unit shutdown if hydrogen concentration exceeds four percent in offgas system piping after the recombiners.

Failure Data:

BFRO-50-296/7712

\*Retention: Period - Lifetime; Responsibility - Administrative Supervisor

\*Revision: 

