PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 149250

Date: April 14, 1979

Title: Two Main Steam Isolation Valves Fail to Close at Trojan

The failure sequence was:

- With the reactor in hot standby, main steam isolation valve testing was in progress.
- Two of the main steam isolation valves failed to close when manually initiated due to binding between the valve stem and packing.

Corrective action:

1. The valve packings were adjusted so the valves operated freely.

Design rurpose of failed system or component:

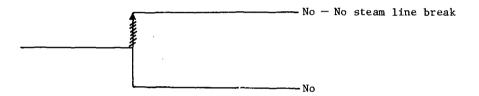
The main steam isolation valves isolate the steam generators during a steam line break, and prevent blowdown of more than one steam generator.

Unavailability of system per WASH 1400:* -

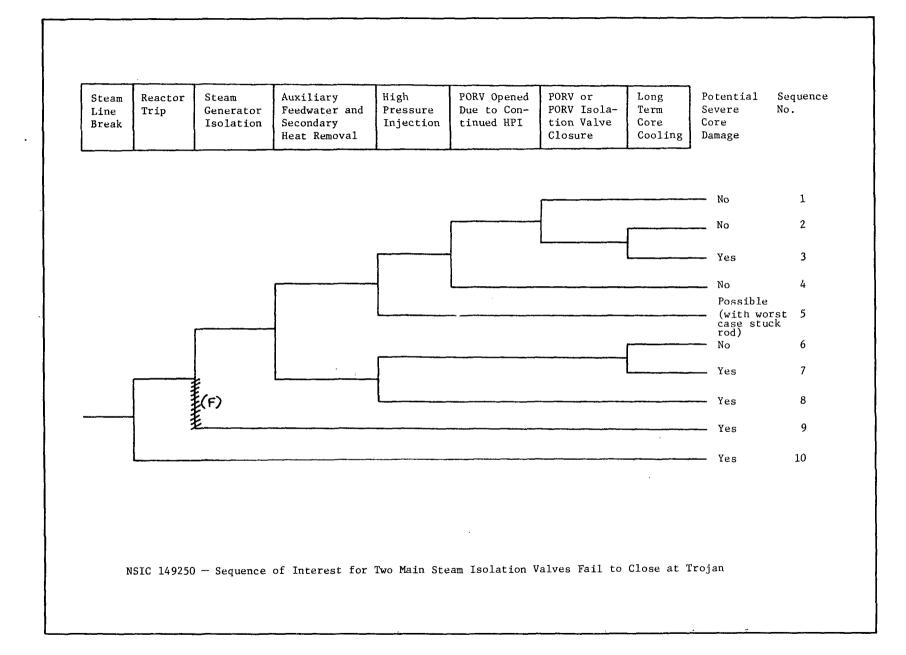
Unavailability of component per WASH 1400:* valve, failure to operate: 10-3

^{*}Unavailabilities are in units of per demand D^{-1} . Failure rates are in units of per hour HR^{-1} .

Reactor in Hot Standby and Main Steam Isolation Valve Testing in Progress Main Steam Isolation Valves CV-2256 and CV-2276 Fail to Close Due to Binding Between the Valve Stem and Packing Potential Severe Core Damage



NSIC 149250 — Actual Occurrence for Two Main Steam Isolation Valves Fail to Close at Trojan



CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 149250

DATE OF LER: April 27, 1979

DATE OF EVENT: April 14, 1979

SYSTEM INVOLVED: Main steam

COMPONENT INVOLVED: Main steam isolation valves

CAUSE: Valves failed to close due to binding between valve stem and packing.

SEQUENCE OF INTEREST: Steam line break

ACTUAL OCCURRENCE: Valve failed to close during testing.

REACTOR NAME: Trojan

DOCKET NUMBER: 50-344

REACTOR TYPE: PWR

DESIGN ELECTRICAL RATING: 1130 MWe

REACTOR AGE: 3.3 yr

VENDOR: Westinghouse

ARCHITECT-ENGINEERS: Bechtel

OPERATORS: Portland General Electric Co.

LOCATION: 42 miles north of Portland, Oregon

DURATION: 360(a) hours

PLANT OPERATING CONDITION: Hot standby

SAFETY FEATURE TYPE OF FAILURE: (a) inadequate performance; (b) faried to start;

(c) made inoperable; (d)

DISCOVERY METHOD: During testing.

COMMENT: -