

PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 147400

Date: February 19, 1979

Title: Both Main Steam Stop Valves Fail to Close at Point Beach 2

The failure sequence was:

1. With the reactor at 10% power and main steam stop valve testing in progress, both main steam stop valves failed to close.

Corrective action:

The valves were eventually closed with mechanical assistance. Both valves were stroked several times and eventually functioned without assistance.

Design purpose of failed system or component:

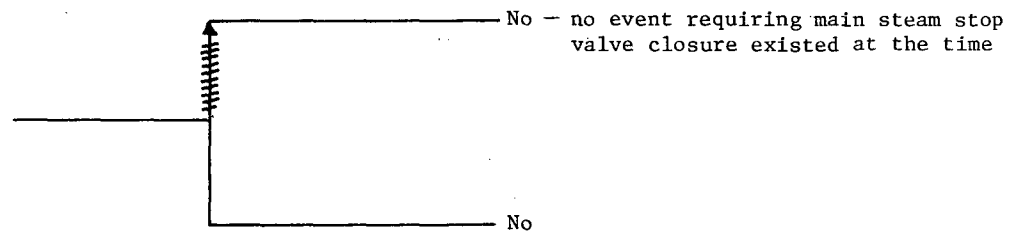
The main steam stop valves serve to isolate the steam generators from the main steam lines and prevent multiple steam generator blowdown during certain steam line break accidents.

Unavailability of system per WASH 1400:* not considered in WASH-1400.

Unavailability of component per WASH 1400:* specific type not considered in WASH-1400

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

Reactor at 10% Power and Main Steam Stop Valve Testing in Progress	Main Steam Stop Valves A & B Fail to Close Due to a Buildup of Deposits on the Valve Shaft or Gland Packing Hardening	Potential Severe Core Damage
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NSIC 147400 - Actual Sequence for Both Main Steam Stop Valves Fail to Close
at Point Beach 2

CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 147400

DATE OF LER: February 23, 1979

DATE OF EVENT: February 19, 1979

SYSTEM INVOLVED: Main steam

COMPONENT INVOLVED: Main steam isolation valves

CAUSE: Valve failure to close due to deposits on valve shaft or packing gland hardening.

SEQUENCE OF INTEREST: Steam line break

ACTUAL OCCURRENCE: Main steam stop valves failure to close during testing

REACTOR NAME: Point Beach 2

DOCKET NUMBER: 50-301

REACTOR TYPE: PWR

DESIGN ELECTRICAL RATING: 497 MWe

REACTOR AGE: 6.7 yr

VENDOR: Westinghouse

ARCHITECT-ENGINEERS: Bechtel

OPERATORS: Wisconsin Electric Power Co.

LOCATION: 15 miles north of Manitowoc, Wisconsin

DURATION: 360(a) hours

PLANT OPERATING CONDITION: 10% power

SAFETY FEATURE TYPE OF FAILURE: (a) inadequate performance; (b) failed to start;
(c) made inoperable; (d) failed to close

DISCOVERY METHOD: During testing

COMMENT: -