

PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 120293

Date: November 11, 1976

Title: Plant Service Water Strainers Plug at Hatch 1

The failure sequence was:

1. While operating at 85% power, both division I and II service water strainers plugged, thus reducing the plant service water to the turbine and Reactor building. The strainer drive motors had failed.

Corrective action:

The strainers were manually back flushed twice per shift until the drive motors were repaired.

Design purpose of failed system or component:

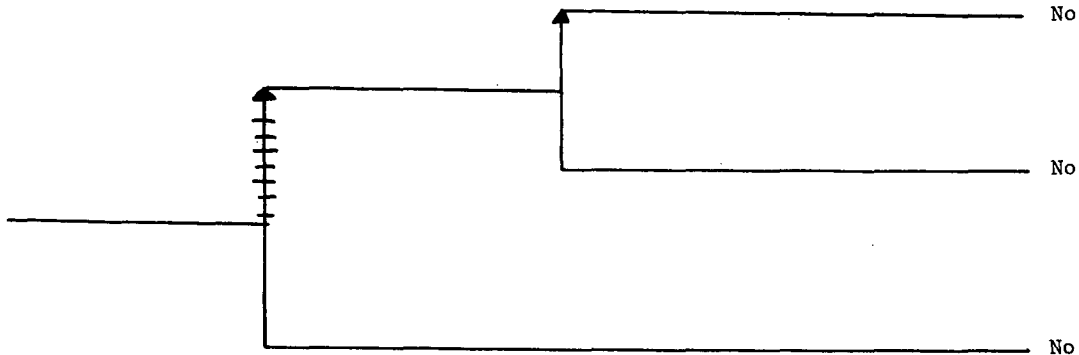
The drive motors power the pumps that keep the service water strainers clean.

Unavailability of system per WASH 1400: * High Pressure Service Water: 1.1×10^{-4}

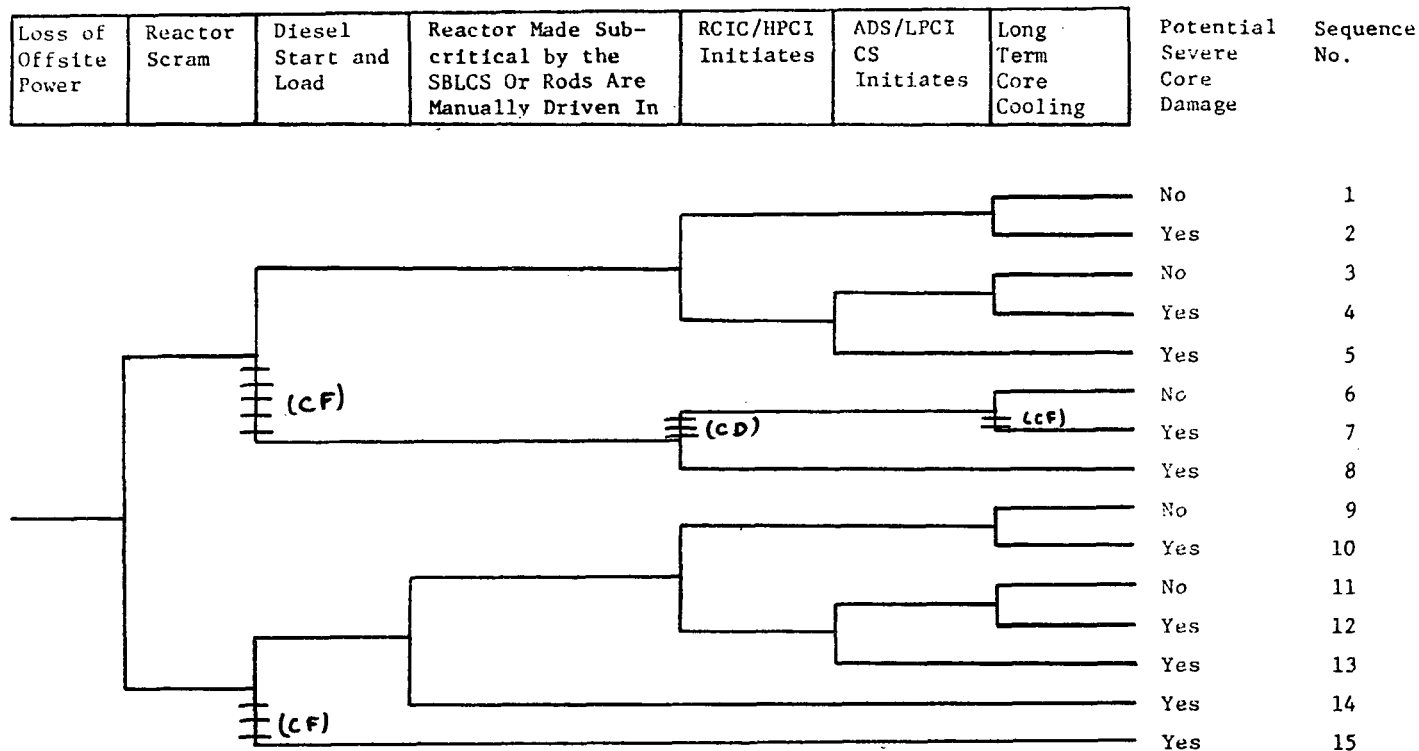
Unavailability of component per WASH 1400: * Pumps failure to run: $3 \times 10^{-5}/\text{Hr}$

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

Reactor Operating at 85% Power	Operator Receives an Alarm that Both Service Water Strainers are Plugged	Strainers are Manually Backflushed Twice Per Shift Until Motors are Repaired	Potential Severe Core Damage
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NSIC 120293 — Actual Occurrence of Plant Service Water Strainers Plug at Hatch 1



CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 120293

DATE OF LER: November 11, 1970

DATE OF EVENT: Unknown

SYSTEM INVOLVED: Service Water

COMPONENT INVOLVED: Strainers

CAUSE: Plugging

SEQUENCE OF INTEREST: Loop

ACTUAL OCCURRENCE: Plant Service Water Strainers Plug at Hatch 1

REACTOR NAME: Hatch 1

DOCKET NUMBER: 50-321

REACTOR TYPE: BWR

DESIGN ELECTRICAL RATING: 777 MWe

REACTOR AGE: 2.2 yr

VENDOR: General Electric

ARCHITECT-ENGINEERS: Southern Services

OPERATORS: Georgia Power

LOCATION: Eleven miles N of Baxley, GA

DURATION: 12(a) hours

PLANT OPERATING CONDITION: 85%

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

DISCOVERY METHOD:

COMMENT: