

# PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 93553

Date: December 8, 1974

Title: Diesel Generator Malfunctions at Hatch 1

The failure sequence was:

1. The diesel generators were undergoing surveillance testing.
2. Diesel generator 1A failed to start.
3. Diesel generator 1B started but shut down after about a minute of operation.
4. An investigation revealed that the air side of the governor booster had rusted on both diesels. Also the day tank for diesel 1G contained 50 gallons of water.

Corrective action:

The air port to the booster was cleaned and its diameter increased from 0.025 to 0.050 inches on all three diesels.

Design purpose of failed system or component:

The diesels provide a.c. power to the plant when offsite sources are unavailable. The governor booster supplies oil to the governor.

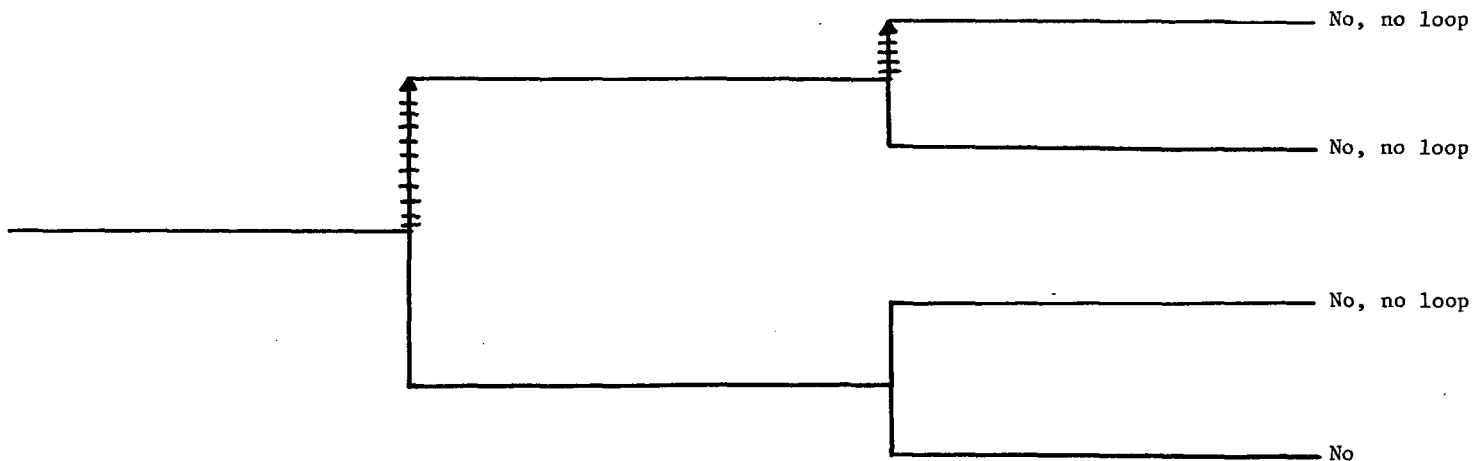
Unavailability of system per WASH 1400: \* Emergency Power:  $10^{-2}/D$

Unavailability of component per WASH 1400: \* Diesel failure to start:  $3 \times 10^{-2}/D$   
Diesel Engine failure to run:  
 $3 \times 10^{-4}/hr$

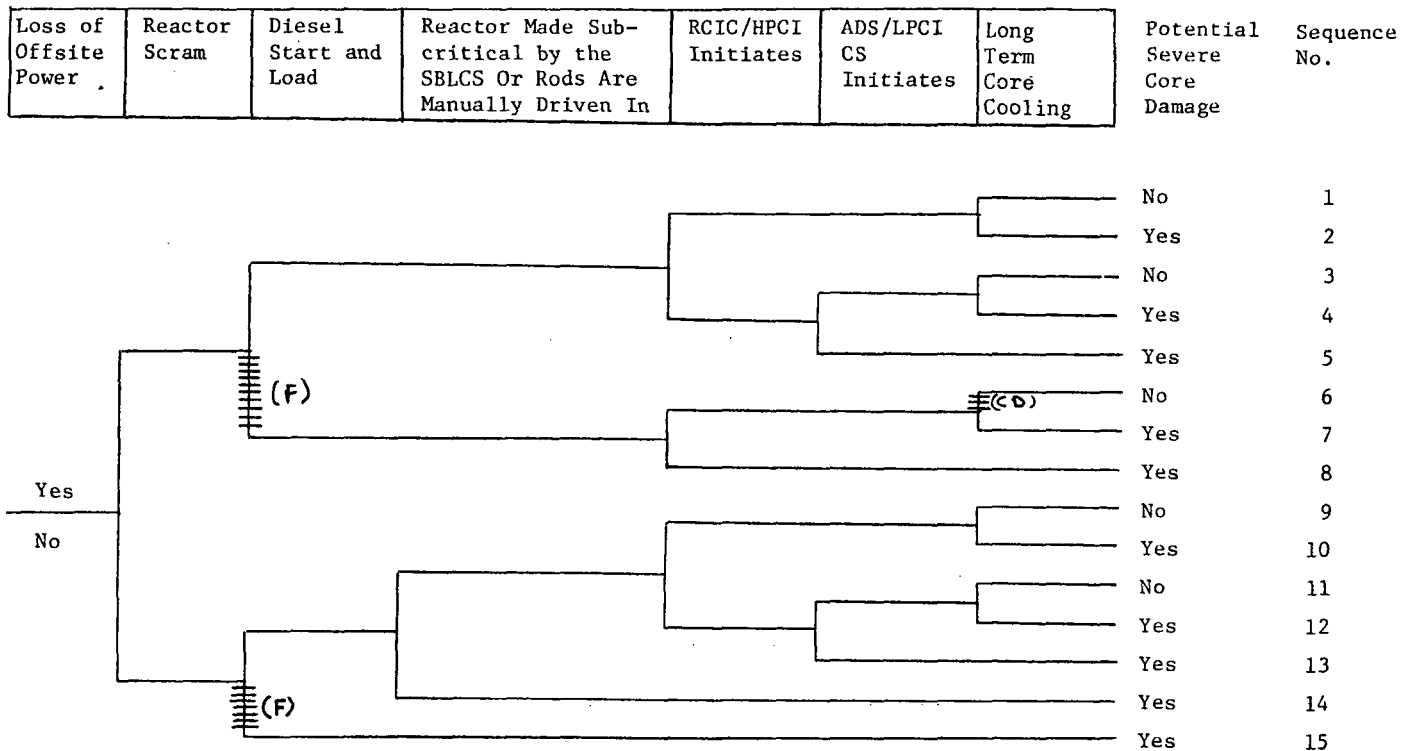
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\* Unavailabilities are in units of per demand  $D^{-1}$ . Failure rates are in units of per hour  $HR^{-1}$ .

Diesel Generator Operability Test Was Underway	Diesel Generator 1A Failed To Start Due to Rusty Governor Booster	Diesel Generator 1B Started But Fails to Run More Than 1 Minute Due to a Rusty Governor Booster and Water in the Day Tank	Potential Severe Core Damage
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NSIC 93553 — Actual Occurrence of Two Diesels Fail at Hatch 1



NSIC 93553 - Sequence of Interest of Two Diesel Generators Fail at Hatch 1

CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 93553

DATE OF LER: January 16, 1975

DATE OF EVENT: December 8, 1974

SYSTEM INVOLVED: Electric Power

COMPONENT INVOLVED: Diesel Generators

CAUSE: Mechanical failure of the governor boosters, water in the day tank

SEQUENCE OF INTEREST: Loss of offsite power

ACTUAL OCCURRENCE: Two diesel generators malfunction at Hatch 1

REACTOR NAME: Hatch 1

DOCKET NUMBER: 50-321

REACTOR TYPE: BWR

DESIGN ELECTRICAL RATING: 786 MWe

REACTOR AGE: yr

VENDOR: General Electric

ARCHITECT-ENGINEERS:

OPERATORS: Georgia Power

LOCATION: 11 miles North of Baxley, GA

DURATION: 360(a) hours

PLANT OPERATING CONDITION: not known

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

DISCOVERY METHOD: Testing

COMMENT: Diesel 1A had failed on December 7.