

PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 148892

Date: February 22, 1979

Title: Diesel Generator Sequencer Found in Test Mode at Farley 1

The failure sequence was:

1. With the plant at 94% power, diesel generator 1B was removed from service for preventive maintenance.
2. The 1-2A diesel generator sequencer was found to be in the test mode, rendering that diesel generator inoperable. The sequencer was in the test mode due to a faulty switch mechanism.

Corrective action:

The sequencer was returned to operation and the faulty switch mechanism repaired.

Design purpose of failed system or component:

The sequencer provides control signals for load shedding and load sequencing in connection with diesel generator starting and loading.

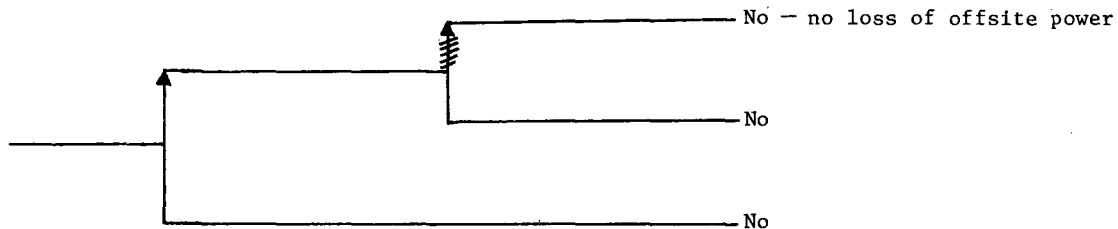
Unavailability of system per WASH 1400:\* Electric power:  $1 \times 10^{-2}/D$

Unavailability of component per WASH 1400:\* Diesel generator:  $3 \times 10^{-2}/D$

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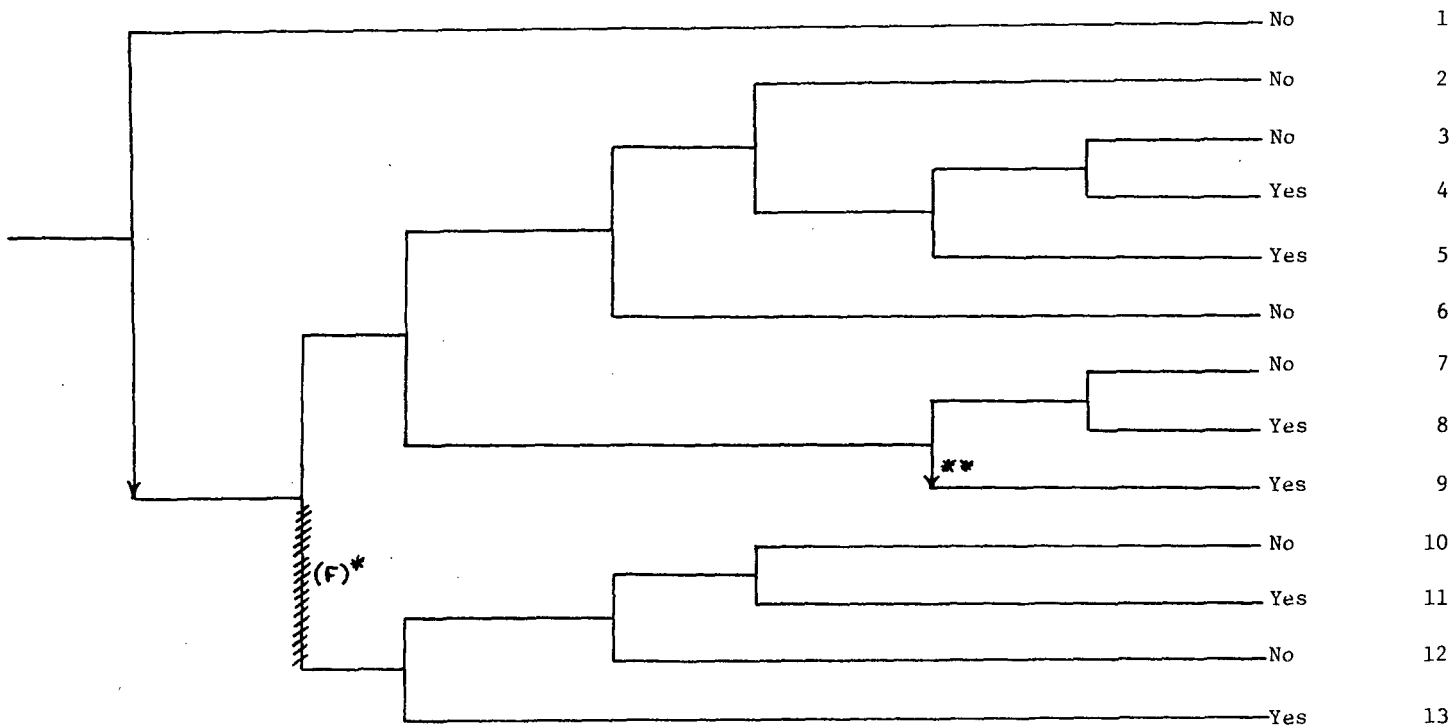
\*Unavailabilities are in units of per demand  $D^{-1}$ . Failure rates are in units of per hour  $HR^{-1}$ .

Reactor at 94% Power	Diesel Generator 1B Removed from Service for Preventive Maintenance	Diesel Generator 1-2A Inoperable Due to its Sequencer Being in the Test Mode as a Result of a Faulty Switch	Potential Severe Core Damage
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NSIC 148892 — Actual Occurrence for Diesel Generator Sequencer Found in Test Mode at Farley 1

Loss of Offsite Power	Turbine Generator Runs Back and Assumes House Loads	Emergency Power	Auxiliary Feedwater and Secondary Heat Removal	PORV Demanded	PORV or PORV Isolation Valve Closure	High Pressure Injection	Long Term Core Cooling	Potential Severe Core Damage	Sequence No.
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NSIC - 148892 - Sequence of Interest for Diesel Generator Sequencer Found in Test Mode at Farley 1

\* success requires operator action to transfer loads to a smaller, river water pump diesel generator.

\*\*not included in mitigation procedures.

CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 148892

DATE OF LER: March 22, 1979

DATE OF EVENT: February 22, 1979

SYSTEM INVOLVED: Emergency power

COMPONENT INVOLVED: Diesel generator sequencer

CAUSE: Sequencer in test mode due to faulty switch

SEQUENCE OF INTEREST: Loss of offsite power

ACTUAL OCCURRENCE: Sequencer in test while other diesel generator was unavailable

REACTOR NAME: Farley 1

DOCKET NUMBER: 50-348

REACTOR TYPE: PWR

DESIGN ELECTRICAL RATING: 829 MWe

REACTOR AGE: 1.5 yr

VENDOR: Westinghouse

ARCHITECT-ENGINEERS: Bechtel/SSI

OPERATORS: Alabama Power Co.

LOCATION: 24 miles SE of Dothan, Alabama

DURATION: 24(a) hours

PLANT OPERATING CONDITION: 94% power

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

DISCOVERY METHOD: Operator observation

COMMENT: —