

# PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 132979

Date: August 10, 1977

Title: Both Diesel Generator Fuel Supply Valves Found Shut at Millstone 2

The failure sequence was:

1. During a routine inspection with the plant in cold shutdown, the fuel supply valves on both diesel generators were found shut. The cause of valve closure was not known.
2. Both fuel supply valves were reopened.

Corrective action:

1. The valve manual operators were chain locked in the open position.

Design purpose of failed system or component:

The diesel generators provide on-site emergency power for safety-related loads in the event offsite power and the unit generator are unavailable.

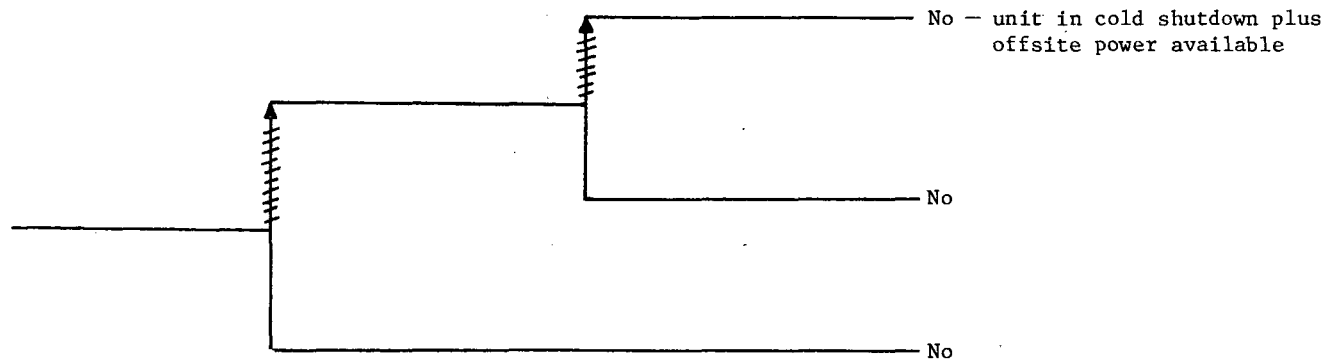
Unavailability of system per WASH 1400:\* emergency power:  $3 \times 10^{-2}/D$

Unavailability of component per WASH 1400:\* diesel generators:  $10^{-2}/D$

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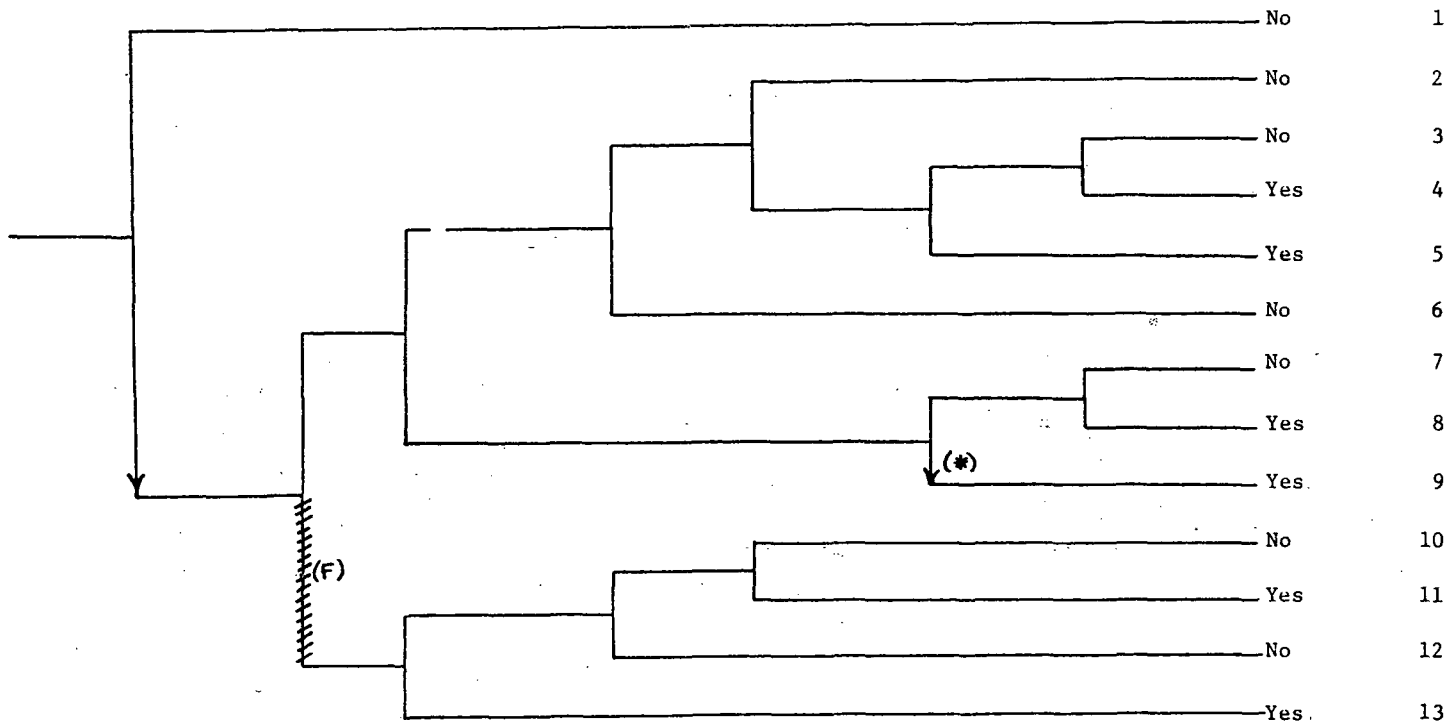
\*Unavailabilities are in units of per demand  $D^{-1}$ . Failure rates are in units of per hour  $HR^{-1}$ .

Unit in cold shut-down and plant inspection in progress	Diesel-generator #1 fuel supply valve found shut in violation of procedures	Diesel-generator #2 fuel supply valve found shut in violation of procedures	Potential Severe Core Damage
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NSIC 132979 — Actual Occurrence for Both Diesel Generator Fuel Supply Valves Found Shut at Millstone 2

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 132979 - Sequence of Interest for Both Diesel-Generator Fuel Supply Valves Found Shut at Millstone 2

\*Not included in mitigation procedures.

# CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 132979

DATE OF LER: August 10, 1977 (Original report date June 14, 1977)

DATE OF EVENT: May 15, 1977

SYSTEM INVOLVED: on-site emergency power

COMPONENT INVOLVED: diesel-generators

CAUSE: fuel supply valves shut, human error

SEQUENCE OF INTEREST: loss of offsite power

ACTUAL OCCURRENCE: fuel supply valves discovered to be shut during an inspection

REACTOR NAME: Millstone 2

DOCKET NUMBER: 50-336

REACTOR TYPE: PWR

DESIGN ELECTRICAL RATING: 870 MWe

REACTOR AGE: 2.0 yr

VENDOR: Combustion Engineering

ARCHITECT-ENGINEERS: Bechtel

OPERATORS: Northeast Nuclear Energy Co.

LOCATION: 5 miles SW of New London, Conn.

DURATION: 180(a) hours

PLANT OPERATING CONDITION: cold shutdown

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

DISCOVERY METHOD: routine inspection

COMMENT: —