

# PRECURSOR DESCRIPTION AND DATA

NSIC Accession Number: 64600

Date: June 30, 1971

Title: Loss of Offsite Power at Indian Point 1

The failure sequence was:

1. Both sources of offsite power were supplied through a single substation transformer (the normal second transformer was out-of-service for inspection).
2. The transformer tripped due to an inadvertent relay actuation, resulting in a total loss of off-site power.
3. (Since no other failures were reported it is assumed the plant tripped and emergency feedwater was utilized for reactor cooling.)

Corrective action;

1. Modified operating procedures to provide greater assurance that at least two feeders, provided from separate sources, will be available at all times.

Design purpose of failed system or component:

1. Provide electric power to plant components when unit generator is not in operation.

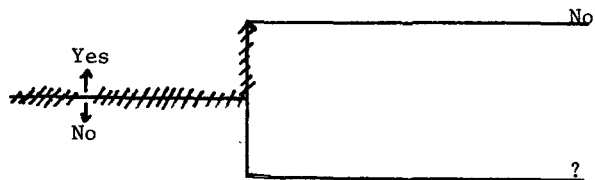
Unavailability of system per WASH 1400:\*  $2 \times 10^{-5}$ /hr

Unavailability of component per WASH 1400:\*

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

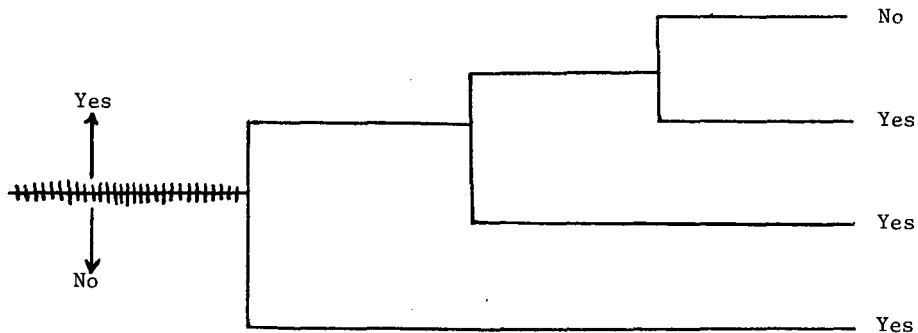
Loss of offsite power	Required emergency equipment <sup>1</sup>	Potential Severe Core Damage
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NSIC 64600 — Actual Occurrence for Loss of Offsite Power at Indian Point 1 (Operations Report No. 17)

<sup>1</sup>Operations report does not specify systems utilized after the loss of power occurred beyond this statement.

Loss of offsite power with reactor at power	Onsite power available (Instrument power)	Emergency control air available	Emergency feedwater available	Potential core melt severe core damage
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NSIC 64600 — Sequence of Interest for Loss of Offsite Power at Indian Point 1  
(Operations Report No. 17)

CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 64600

DATE OF LER: June 30, 1971 (Operations Report No. 17)

DATE OF EVENT: December 26, 1970

SYSTEM INVOLVED: Off site ac power

COMPONENT INVOLVED: Transmission lines

CAUSE: Shutdown of Buchanan Substation

SEQUENCE OF INTEREST: Loss of Offsite Power

ACTUAL OCCURRENCE: Shutdown of Buchanan Station.

REACTOR NAME: Indian Point 1

DOCKET NUMBER: 50-3

REACTOR TYPE: PWR

DESIGN ELECTRICAL RATING: 265 MWe

REACTOR AGE: 9.0 yr

VENDOR: B&W

ARCHITECT-ENGINEERS: Consolidated Edison Co..

OPERATORS: Consolidated Edison Co.

LOCATION: 3 miles SW of Peekskill, NY

DURATION: N/A

PLANT OPERATING CONDITION: Unknown.

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

DISCOVERY METHOD: Operational event.

COMMENT: --