NSIC Accession Number: 102146

Date: April 9, 1975

Title: Loss of Offsite Power at Brunswick 2

The failure sequence was:

- 1. The plants 1A and 2A 230kv buses had been incorrectly tied together.
- 2. With the reactor in cold shutdown, a single phase to ground fault caused the lockout relays for busses 1A and 2A to trip.
- 3. The diesels started and loaded as expected.
- 4. The relays were reset and offsite power restored ( $\sim$ 4 min).

Corrective action:

This problem was corrected.

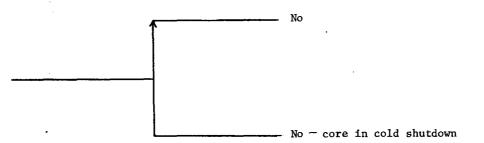
Design purpose of failed system or component:

The offsite power source provides power to the plant when the unit generator isn't functioning.

Unavailability of system per WASH 1400:\*

Unavailability of component per WASH 1400:\* maintenance error:  $3 \times 10^{-3}/D$ 

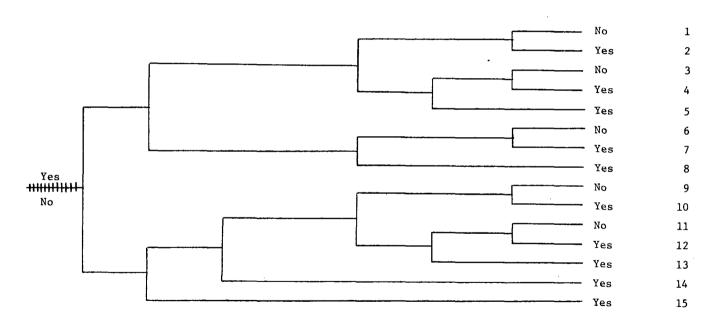
\* Unavailabilities are in units of per demand  $D^{-1}$ . Failure rates are in units of per hour  $HR^{-1}$ .

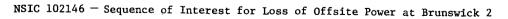


NSIC 102146 - Actual Occurrence of Loss of Offsite Power at Brunswick 2

24

Loss of Offsite Power	Reactor Scram	Diesel Start and Load	Reactor Made Sub- critical by the SBLCS Or Rods Are Manually Driven In	RCIC/HPCI Initiates		Long Term Core Cooling	Potential Severe Core Damage	Sequence No.
-----------------------------	------------------	-----------------------------	---	------------------------	--	---------------------------------	---------------------------------------	-----------------





## CATEGORIZATION OF ACCIDENT SEQUENCE PRECURSORS

NSIC ACCESSION NUMBER: 102146 DATE OF LER: April 9, 1975 DATE OF EVENT: March 26, 1975

SYSTEM INVOLVED: Electric power COMPONENT INVOLVED: relays CAUSE: improper tying together of the 1A and 2A 230kv buses, human error SEQUENCE OF INTEREST: loss of offsite power ACTUAL OCCURRENCE: loss of offsite power REACTOR NAME: Brunswick 2 DOCKET NUMBER: 50-324 REACTOR TYPE: BWR DESIGN ELECTRICAL RATING: 821 MWe REACTOR AGE: .05 vr VENDOR: GE ARCHITECT-ENGINEERS: United Engineers and Constructors OPERATORS: Carolina Power and Light LOCATION: 3 miles N of South Port, NC DURATION: N/A PLANT OPERATING CONDITION: cold shutdown SAFETY FEATURE TYPE OF FAILURE: (a) inadequate performance; (b) failed to start; (c) made inoperable; (d) \_\_\_\_\_ DISCOVERY METHOD: operation COMMENT: -