

NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

AEOD/E108

APR 2 1 1981

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MEMORANDUM FOR: File

FROM:

M. Chiramal

Office for Analysis and Evaluation

of Operational Data

SUBJECT:

HATCH UNITS 1 and 2 - ALTERNATE OFFSITE SOURCE INTERLOCK WITH

EMERGENCY DIESEL GENERATORS

Reference:

(1) IE Daily Report dated April 6, 1981

The licensee, while performing a relay trip procedure at Hatch 1, identified that the undervoltage relays of the second offsite source would not operate. The relays are designated "Transformer 1C UV relays 27-1 and 27-2." (see attached logic diagram). Transformer 1C is the alternate offsite source to the safety-related buses.

The design of the station safety-related electrical system is such that on loss of the primary offsite source (monitored by UV relays 27-3, 27-4, 27-5, and 27-6 on each safety bus) the diesel generators are started and the safety buses seek the alternate offsite source -- transformer IC. If this offsite source is unavailable (as seen by the operation of UV relays 27-1 and 27-2), then the DG breakers are closed to energize the safety buses.

The UV relays 27-3 through 27-6 that monitor the voltage of each safety bus are designated as Class IE equipment -- a set of four is provided for each bus. The UV relays 27-1 and 27-2, however, are not designated Class IE and only one pair is provided for all the safety buses. On April 6, 1981 during the trip procedure, relays 27-1 and 27-2 did not operate, thus preventing the closure of all the DG breakers on Unit 1. The design is the same for Unit 2.

The licensee will be proposing a design modification to correct the problem of the non-Class IE interlock that prevents the automatic operation of safety systems. ORAB/NRR is presently pursuing this matter. Other than keeping ourselves informed of the resolution of the design problem, we do not anticipate any further AEOD action.

Matthew Chiramal

Office for Analysis and Evaluation

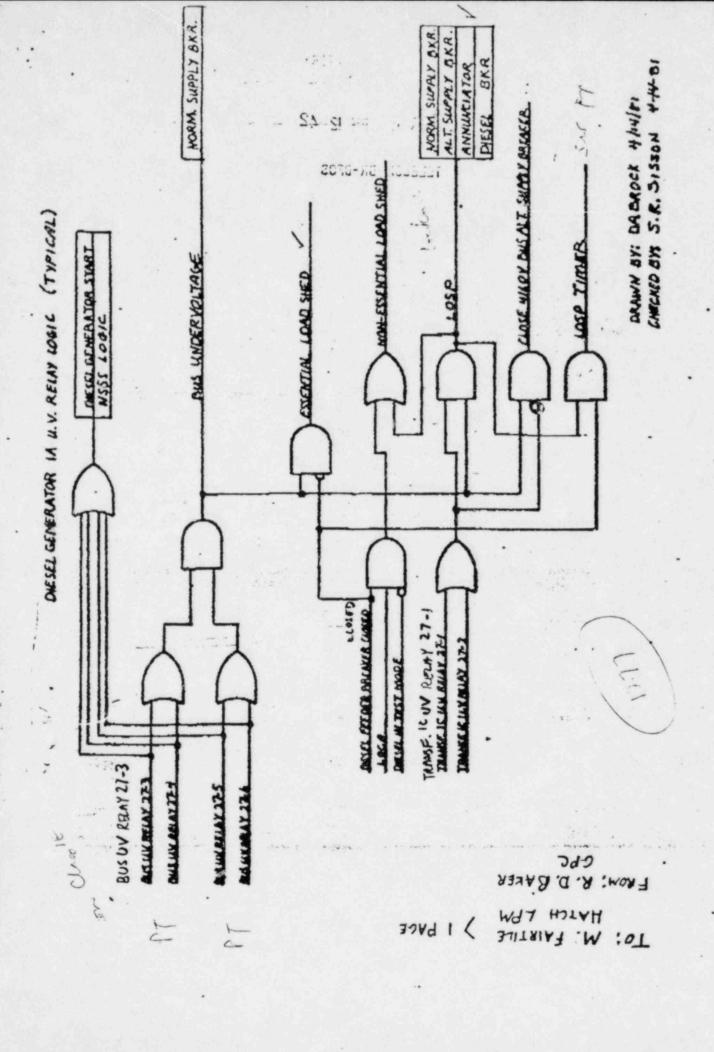
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A44 Attachment: As stated

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BLE DCCURRENCE - MHILE PERFORMING A RELAY TRIP PROCEDURE, THE E IDENTIFIED THAT THE LOCKOUT UNDERVOLTAGE RELAYS FOR THE OFFSITE FEED WOULD NOT OPERATE. THESE RELAYS ALLOW THE EMERICANT OF THE INTO THE EMERGENCY BUSES. THE RELAYS WERE Y EXERCISED AND TESTED SATISFACTORILY. UNIT 1 IS CURRENTLY

FUELING DTJAGE. UNIT 2 RELAYS WILL BE TESTED TODAY. THE E' IS TYVESTIGATING THE RELAY FAILURE. REPORT DUE 4/20.

FULLDWUP PER MC 2515.