

# CATEGORY 1

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SUBJECT: Informs NRC of plant response to GL 96-01, "Testing of Safety Related Logic Circuits."

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April 17, 1996

AEP:NRC:1246

Docket Nos.: 50-315  
50-316

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555

Gentlemen:

Donald C. Cook Nuclear Plant Units 1 and 2  
RESPONSE TO GENERIC LETTER (GL) 96-01, TESTING OF  
SAFETY RELATED LOGIC CIRCUITS

The purpose of this letter is to inform you of the Donald C. Cook Nuclear Plant's response to GL 96-01. We intend to implement the following actions which fulfill the requested actions of GL 96-01.

We intend to compare electrical elementary drawings for the reactor protection system (RPS), emergency diesel generator (EDG) load shedding and sequencing, and actuation logic for the engineered safety features actuation systems (ESFAS) against plant surveillance test procedures to ensure that all portions of the logic circuitry including the parallel logic, interlocks, bypasses and inhibit circuits are adequately covered in the surveillance procedures to fulfill the technical specification (T/S) requirements. This review will also include relay contacts, control switches, and other relevant electrical components within these systems, utilized in the logic circuits performing a safety function.

To implement GL 96-01 we propose to use T/S table 3.3-1 as the basis for the RPS T/S requirements, T/S section 3/4.8.1 as the basis for the EDG load shedding and sequencing requirements, and T/S table 3.3-3 as the basis for the ESFAS requirements. The safety related functions described in these T/Ss establish the "functional" scope of the GL 96-01 review.

The hardware scope of GL 96-01 for RPS and ESFAS consists of the initiating bi-stable contacts from the control circuitry, through the solid state protection system, to the contacts that actuate the equipment that accomplishes the required safety functions.

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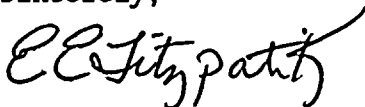
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The hardware scope of GL 96-01 for the EDG load shedding and sequencing requirements consists of the initiating undervoltage relays, the master relay that starts the EDGs, various breakers through the breaker timing and control circuitry (as determined by the initiating event), to the contacts that actuate the equipment that accomplishes the required safety functions.

The surveillance procedures will be reviewed against the electrical elementary drawings containing the logic circuits for safety related functions within the scope of GL 96-01, as defined above.

We intend to accomplish these actions prior to startup from the first refueling outage for each unit commencing one year after the issuance of GL 96-01; that is, the unit 1 and unit 2 refueling outages scheduled for 1997.

Sincerely,



E. E. Fitzpatrick  
Vice President

SWORN TO AND SUBSCRIBED BEFORE ME

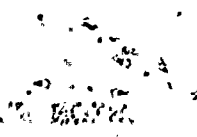
THIS 17<sup>th</sup> DAY OF April 1996

  
Notary Public

My Commission Expires: 6-28-99

eh

cc: A. A. Blind  
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