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 FITZPATRICK, E. American Electric Power Co., Inc.
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SUBJECT: Confirms that until completed requested actions of GL 96-01,
 "Testing of Safety Related Logic Circuits."

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October 28, 1997

AEP:NRC:1246A

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 confirm that we have completed the requested actions of generic letter (GL) 96-01.

As discussed in our submittal AEP:NRC:1246, dated April 17, 1996, we have compared 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 provide reasonable assurance that 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 included relay contacts, control switches, and other electrical components utilized in logic circuits performing a safety function within these systems.

To implement GL 96-01, we used T/S table 3.3-1 as the source of the RPS T/S requirements, T/S section 3/4.8.1 as the source of the EDG load shedding and sequencing requirements, and T/S table 3.3-3 as the source of the ESFAS requirements. The safety related functions described in these T/Ss were used to 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.

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.

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

We conclude that the actions described in this letter provide reasonable assurance that our testing of safety-related logic circuits is adequate.

Sincerely,

E. E. Fitzpatrick

E. E. Fitzpatrick
Vice President

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 22nd DAY OF OCTOBER 1997

Linda L. Boelcke
Notary Public

My Commission Expires: 01-21-2001

vlb

cc: A. A. Blind
A. B. Beach
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LINDA L. BOELCKE
Notary Public, Berrien County, MI
My Commission Expires January 21 2001