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January 31, 1992

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318  
Resolution of Generic Issues 48, "LCOs for Class 1E Vital Instrument Buses,"  
and 49, "Interlocks and LCOs for Class 1E Tie Breakers" Pursuant to  
10 CFR 50.54(f)

REFERENCES: (a) Generic Letter 91-11, Resolution of Generic Issues 48, "LCOs for  
Class 1E Vital Instrument Buses," and 49, "Interlocks and LCOs for  
Class 1E Tie Breakers" Pursuant to 10 CFR 50.54(f)  
(b) NURFG/CR 5414; Technical Findings for Proposed Integrated  
Resolution of Generic Issue 128, Electric Power Reliability

Gentlemen:

In accordance with 10 CFR 50.54(f) and the Atomic Energy Act, we hereby certify that we have implemented the appropriate procedures conforming to the guidance provided in Enclosure 1 to Generic Letter 91-11 (Reference a). Specifically, the generic letter requests that we ensure Calvert Cliffs Nuclear Power Plant (CCNPP) has procedures that include time limitations and surveillance requirements for the following plant equipment:

- ♦ Vital instrument buses,
- ♦ Inverters or other onsite power sources to the vital instrument buses, and
- ♦ Tie breakers that can connect redundant Class 1E buses (AC or DC) at one unit or that can connect Class 1E buses between units.

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## ATTACHMENT (I)

### Plant Equipment and Procedures in the Scope of Generic Letter 91-11

<u>SYSTEM/COMPONENT</u>	<u>PROCEDURE/SURVEILLANCE</u>
<b>I. 4 kV UNIT BUSES</b>	
4 kV Bus Breakers	No Tie Breakers Between Units or Buses
Bus 11(ZA)	
Bus 14(ZB)	
Bus 21(ZA)	
Bus 24(ZB)	
<b>II. 480V SERVICE TRANSFORMERS AND BUSES</b>	
U-440-11A(ZA)	No Tie Breakers Between Safety-Related
U-440-11B(ZA)	Portion of the 480V Load Center Systems
U-440-14A(ZB)	
U-440-14B(ZB)	
U-440-21A(ZA)	
U-440-21B(ZA)	
U-440-24A(ZB)	
U-440-24B(ZB)	
<b>III. MOTOR CONTROL CENTER BUSES WITH TIE BREAKERS</b>	
MCC 104R(ZB) 52-10420	Operating Instruction (OI)-27D, "Station
MCC 114R(ZA) 52-11420	Power 480 Volt System" and Surveillance
MCC 204R(ZB) 52-20420	Test Procedure (STP-O-90-1(2), "Breaker
MCC 214R(ZA) 52-21420	Line-up Verification"
<b>IV. 125V DC BUSES (STATION BATTERIES)</b>	
11 1D01	No Tie Breakers
12 1D02	
21 2D01	
22 2D02	
01 (Reserve Battery)	

ATTACHMENT (1)

Plant Equipment and Procedures in the  
Scope of Generic Letter 91-11

<u>SYSTEM/COMPONENT</u>	<u>PROCEDURE/SURVEILLANCE</u>
<b>V. STATION BATTERY CHARGERS AND THEIR FEEDS</b>	
DC BUS 11 11 1D05480 UNIT BUS 11A 23 2D07480 UNIT BUS 21A	No Tie Breakers; Each Safety-Related DC Bus is fed by parallel Battery Chargers.
DC BUS 12 12 1D06480 UNIT BUS 14B 24 2D08480 UNIT BUS 24B	
DC BUS 21 13 1D07480 UNIT BUS 14A 21 2D05480 UNIT BUS 24A	
DC BUS 22 14 1D08480 UNIT BUS 11B 22 2D06480 UNIT BUS 21B	
<b>VI. RESERVE BATTERY SYSTEM BUS 01</b>	
1D54 Transfer Switch 1D58 Disconnect Switch to Unit 1 Batteries 1D59 Disconnect Switch to Unit 2 Batteries	No Tie Breakers
<b>VII. 7.5 kVA INVERTERS AND THEIR FEEDS</b>	
No. 11 BUS 11 No. 12 BUS 21 No. 13 BUS 12 No. 14 BUS 22 No. 21 BUS 11 No. 22 BUS 21 No. 23 BUS 12 No. 24 BUS 22	No Tie Breakers; Only Kirk Key-Locked Transfer Switches STP-O-90-1(2), "Breaker Line-up Verification" OI-26B, "120 Volt Vital AC and Computer AC"
<b>VIII. 7.5 kVA INVERTERS AND THEIR 120V AC VITAL PANELS</b>	
1Y01/1Y01-1(ZA) 2Y01/2Y01-1(ZA) 1Y02/1Y02-1(ZB) 2Y02/2Y02-1(ZB) 1Y03/1Y03-1(ZC) 2Y03/2Y03-1(ZC) 1Y04/1Y04-1(ZH) 2Y04/2Y04-1(ZH)	No Tie Breakers; Only Kirk Key-Locked Transfer Switches STP-O-90-1(2), Breaker Line-up Verification" OI-26B, "120 Volt Vital AC and Computer AC"

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Plant Equipment and Procedures in the  
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<u>SYSTEM/COMPONENT</u>	<u>PROCEDURE/SURVEILLANCE</u>
IX. 125V DC UNIT CONTROL PANELS	
DC-11, DC-12, DC-13, DC-14 DC-15, DC-16, DC-17	No Tie Breakers
DC-21, DC-22, DC-23, DC-24, DC-25, DC-26, DC-27	
X. EMERGENCY DIESEL GENERATORS (EDG)	
11(ZA) 12(ZC) 21(ZB)	No Tie Breakers; Only Kirk Key-Locked Transfer Switches STP-O-8A(B)-1(2) tests EDGs and their associated 4kV bus LOCI Sequencers OI-27C, "4.16 kV System"
XI. EMERGENCY DIESEL GENERATOR MCC BUSES	
MCC 11G(ZA) MCC 12B(ZC) MCC 21G(ZB)	No Tie Breakers; Only Auto-Transfer Switches