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ANO. 8203300259

NO. OF PAGES 8

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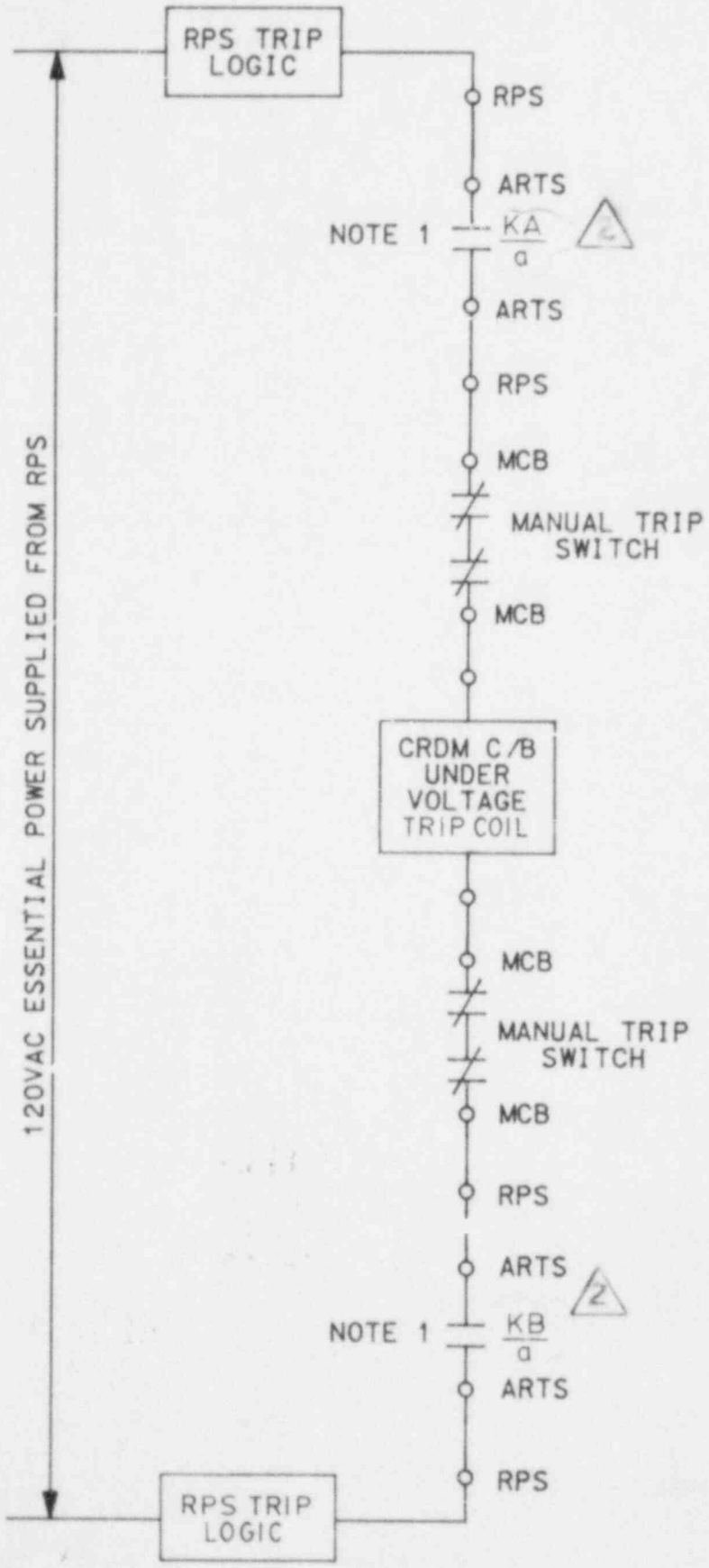
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8203300259-08

2	INCORPORATED TED COMMENTS	17-4-01	BAR	CHK	1/1	PROJ	OWNER	OWNER
1	INCORPORATED TED COMMENTS	11-12-84	DEF	CHK	1/1	CHIEF	OWNER	OWNER
0	ISSUED FOR USE	11-5-81	CAD	CHK	1/1	SUPV	OWNER	OWNER
REV.	DESCRIPTION	DATE	DR	CHK	SUPV	CHIEF	PROJ	OWNER



LEGEND :

RPS - REACTOR PROTECTION SYSTEM
ARTS - ANTICIPATORY REACTOR TRIP SYS.
MCB - MAIN CONTROL BOARD
CRDM - CONTROL ROD DRIVE MECHANISM

NOTES :

1. CONTACTS ARE FROM NORMALLY ENERGIZED ARTS OUTPUT RELAYS WHICH OPEN ON A TRIP OF ARTS. REFER TO FIGURE 1 OF SPECIFICATION 7749-E-2410 FOR THE CONDITIONS WHICH DETERMINE THE STATUS OF THE KA & KB RELAYS.
2. NORMAL OPERATION OF THIS CIRCUIT IS WHEN A TRIP OF THE ARTS OCCURS OR THE MANUAL TRIP SWITCH IS DE-PRESSED, THE CRDM CIRCUIT BREAKER UNDER VOLTAGE RELAY WILL BE DE-ENERGIZED. THIS WILL IN TURN TRIP THE CIRCUIT BREAKER AND DE-ENERGIZE THE CRDM'S.
3. THIS SCHEME IS FOR A SINGLE SEPARATION GROUP. TYPICAL FOR ALL FOUR SEPARATION GROUPS.

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MAR 15 1982

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NUCLEAR ENGINEERING

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DAVIS-BESSE NUCLEAR POWER STATION

THE TOLEDO EDISON COMPANY
BECHTEL ASSOCIATES PROFESSIONAL CORPORATION (OHIO)

ELEMENTARY WIRING DIAGRAM
ANTICIPATORY REACTOR TRIP SYS.
CRDM TRIP CIRCUIT



JOB NO.

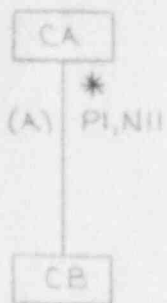
12501

DRAWING NO.

SK-E-437

REV.

2



BLOCK DIAGRAM
 TIME NO. - SEE TABLE B

CH.	EQUIPMENT	
	CA	CB
1	C5784A	C5742E
2	C5784B	C5755E
3	C5784C	C5763F
4	C5784D	C5756F

POWER > 20%


NOTES:

1. GENERAL NOTES 1 & 2 ONLY ARE APPLICABLE. SEE DWG. E-65B INDEX SHEET.
2. CABLES ARE NO. 14 AWG UNLESS SPECIFIED BY: * NO. 16 AWG, SHIELDED TWISTED PAIR.
3. CONTACT OPENS ON LOW OIL PRESSURE TO THE MAIN FEED PUMP TURBINE (PSA-MFPT-1, PSB-MFPT-2).
4. CONTACT OPENS ON LOW OIL PRESSURE AT THE TURBINE GENERATOR MAIN STOP VALVE.
5. CONTACT OPENS ON SFRC'S LEVEL 6 ACTUATION. SEE TABLE A FOR RELAY NO.

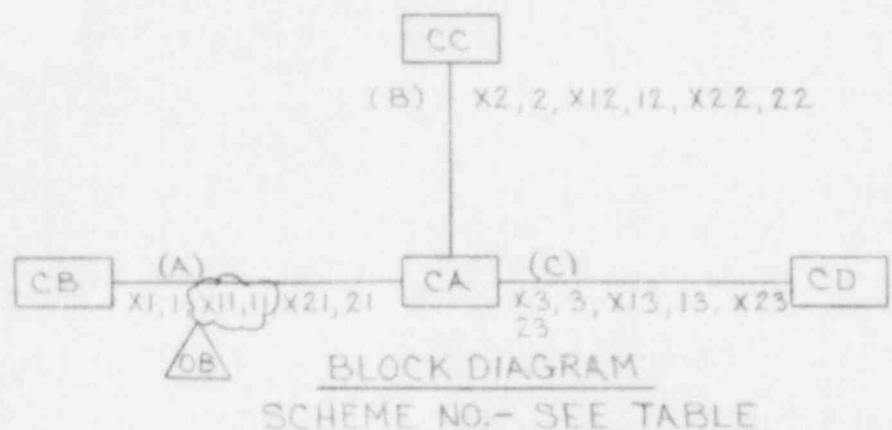
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DESCRIPTION
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DAVIS-BESSE NUCLEAR POWER STATION			
THE TOLEDO EDISON COMPANY THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
ELEMENTARY WIRING DIAGRAM ANTICIPATORY REACTOR TRIP SYSTEM INPUTS			
BECHTEL COMPANY 	JOB NO.	DRAWING NO.	REV.
	7749	E-65B SH.10	OB

												OWNER
												OWNER
												PROJ
												CHIEF
												SUPV
												CHK
												DR
												DATE
												DESCRIPTION



OB ISSUED FOR FCR 79-184 SUPPL 19
 OA ISSUED FOR 79-184 SUPPL 12

SCHEME NO.	CH.	EQUIPMENT				DESCRIPTION
		CA	CB	CC	CD	
ARTSX1	1	C5784A	C5784B	C5784C	C5784D	SIGNAL ACTUATION IN CH
ARTSX2	2	C5784B	C5784A	C5784C	C5784D	SIGNAL ACTUATION IN CH
ARTSX3	3	C5784C	C5784B	C5784A	C5784D	SIGNAL ACTUATION IN CH
ARTSX4	4	C5784D	C5784B	C5784C	C5784A	SIGNAL ACTUATION IN C


NOTES:

1. GENERAL NOTES 1 & 2 ONLY ARE APPLICABLE.
SEE DWG. E-65B INDEX SH.

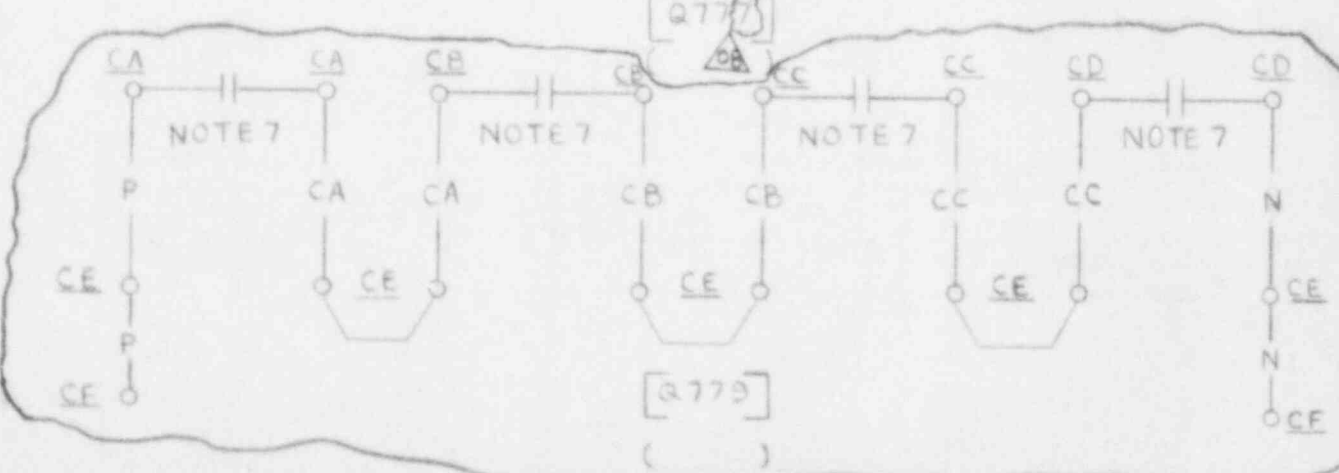
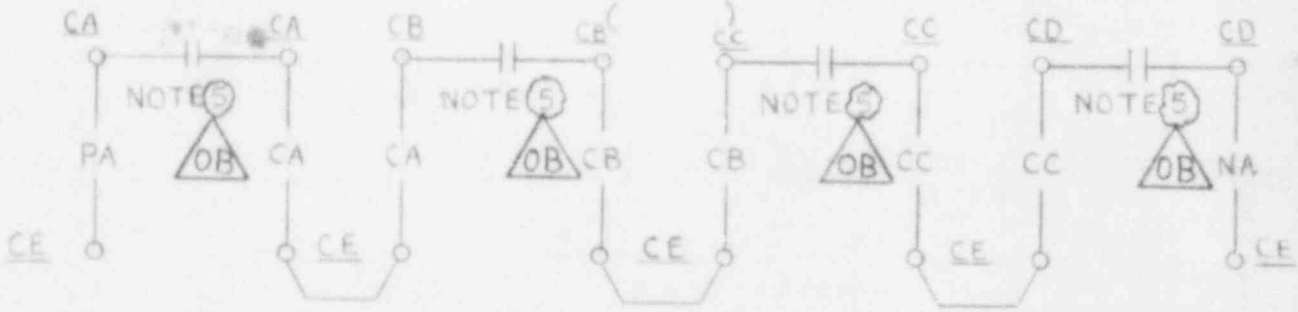
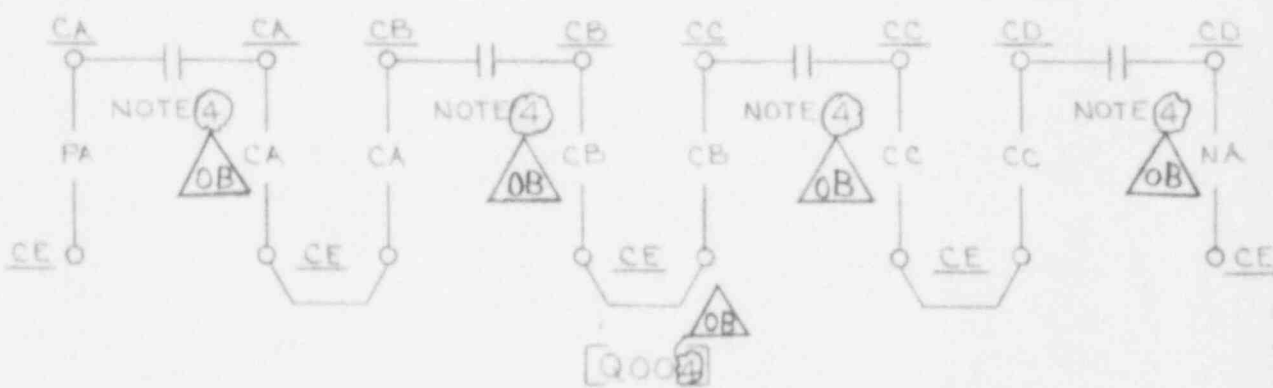
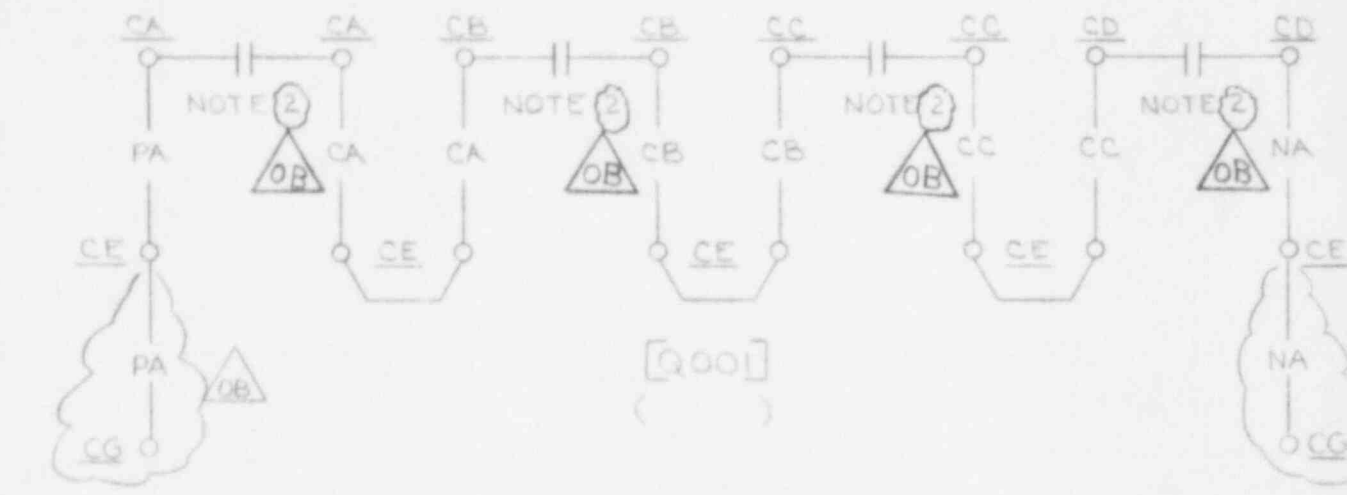
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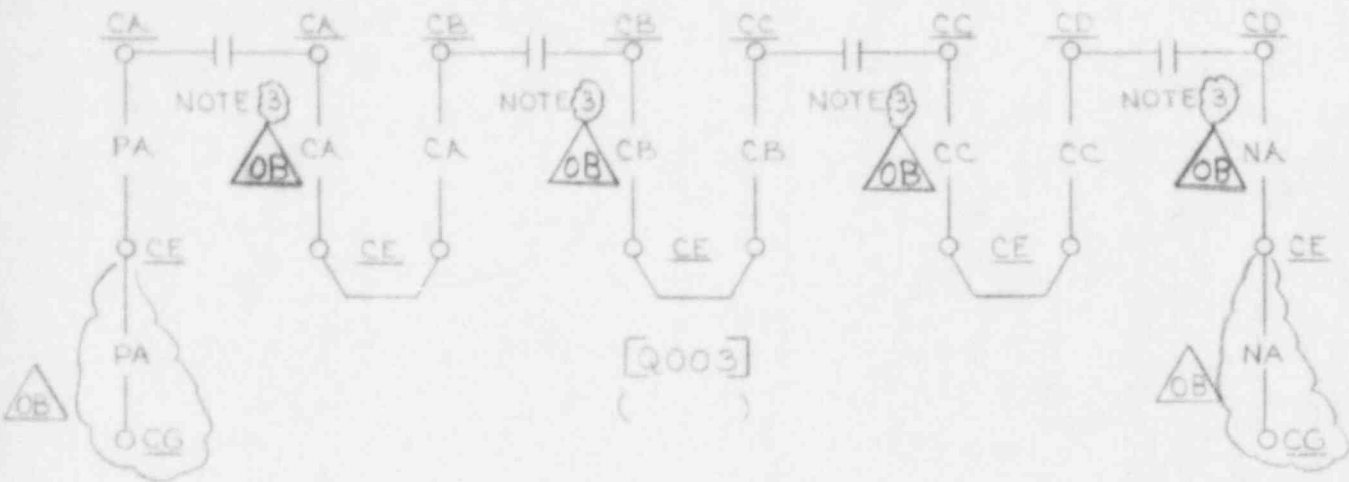
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ON
ANNEL 1 CAB.
ANNEL 2 CAB.
ANNEL 3 CAB.
ANNEL 4 CAB.

DAVIS-BESSE NUCLEAR POWER STATION			
THE TOLEDO EDISON COMPANY THE CLEVELAND ELECTRIC ILLUMINATING COMPANY			
BLOCK DIAGRAM ANTICIPATORY REACTOR TRIP SYSTEM INTERCONNECTIONS			
BECHTEL COMPANY	JOB NO.	DRAWING NO.	REV.
	7749	E-65B SH.11	OB

G-231-D	OB ISSUED FOR FCR 79-184, SUPPL 19	DATE	DR	CHK	SUPV	CHIEF	PROJ	OWNER
	QA ISSUED FOR FCR 79-184 SUPPL 13	12-22-82						
	REV.	3-23-81						





NOTES:

1. FOR GENERAL NOTES SEE DWG. E-65B INDEX SH.1.
2. N.O. CONTACT OPENS TO ALARM ON TRIP OF MAIN FEED PUMP TURBINES 1 & 2.
3. N.O. CONTACT OPENS TO ALARM ON TRIP OF TURBINE GENERATOR.
4. N.O. CONTACT OPENS TO ALARM ON INITIATION OF TEST TRIP BYPASS SWITCH.
5. N.O. CONTACT OPENS TO ALARM ON INITIATION OF REACTOR TRIP FROM THE ART SYSTEM.
6. FOR BLOCK DIAGRAMS, REFER TO DWG. 7749-E-746.
7. N.O. CONTACT OPENS TO ALARM ON TURBINE GENERATOR TRIP BYPASSED.

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 NUCLEAR ENGINEERING

LEGEND:

- CA - C5784A
- CB - C5784B
- CC - C5784C
- CD - C5784D
- CE - C5754C
- CF - C5753F
- CG - C5753A



DAVIS-BESSE NUCLEAR POWER STATION

THE TOLEDO EDISON COMPANY
 THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

ELEMENTARY WIRING DIAGRAM
 ANTICIPATORY REACTOR TRIP SYSTEM
 ANNUNCIATOR & COMPUTER INPUTS

BECHTEL COMPANY	JOB NO.	DRAWING NO.	REV.
	7749	E-65B SH.12	OB