## **ATTENDEES**

### NRC/TVA MEETING ON IMPROVED STANDARD TECHNICAL SPECIFICATIONS

## MARCH 20, 1997

<u>Name</u>

**Organization** 

Joe Williams

NRC/NRR/DRPE/PD II-3

Dick Clark

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Jack Foster

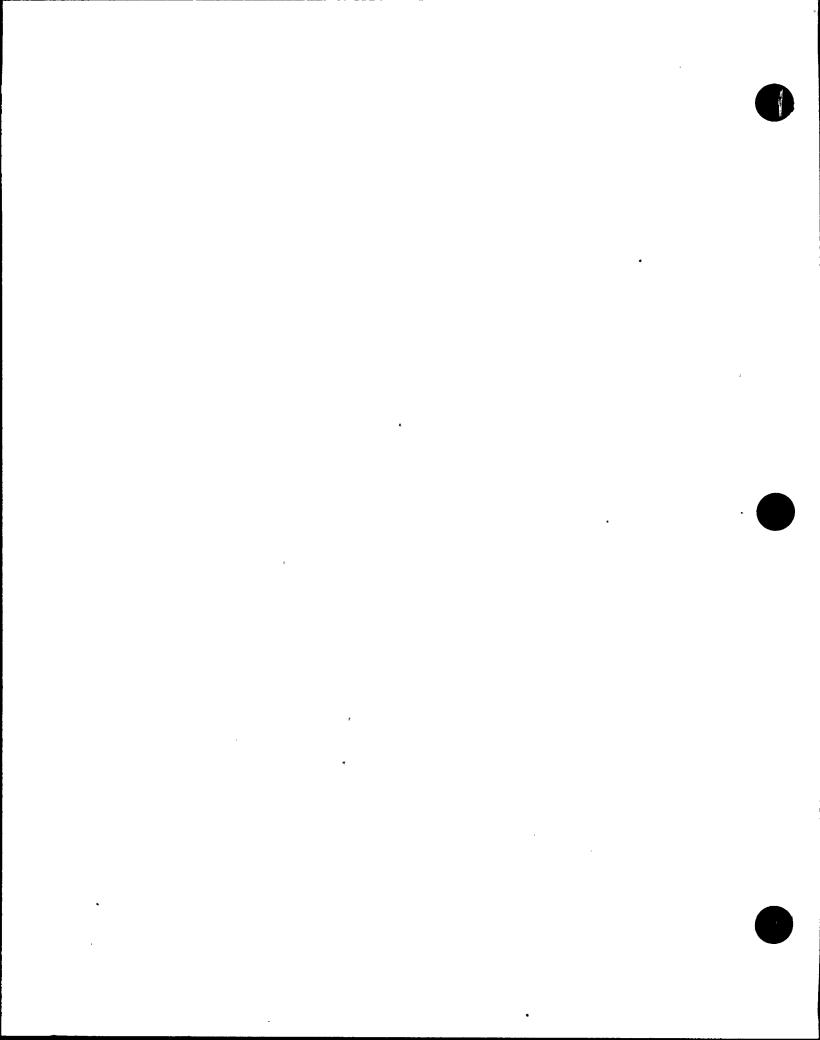
NRC/TSB

David Matherly

TVA

Tim Abney

TVA



# MAJOR LOAD SUMMARY

500 KV)/STATION BLACKOUT

**REV 0038** 

UNIT 0 0-AOI-57-1A ATTACHMENT 4 (Page 1 of 3)

### 4kV AND 480V BOARD LOADS

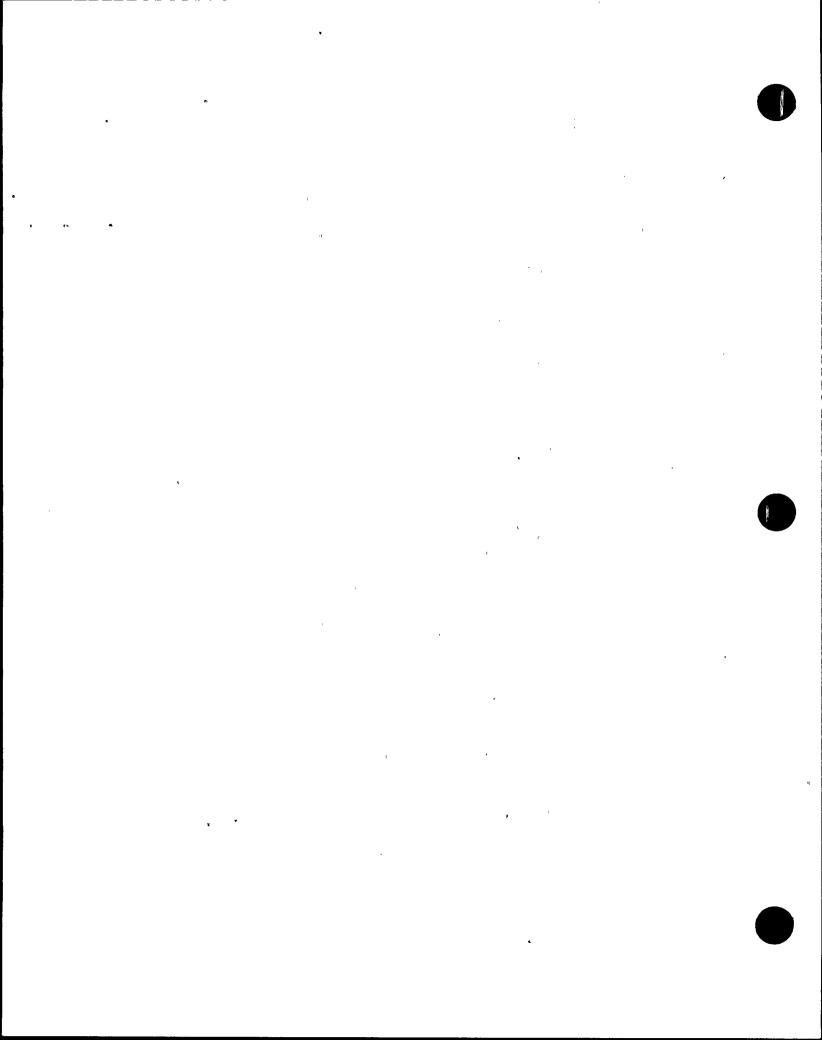
### NOTE:

The following plant components are available when the boards indicated are energized:

		4kV SHUTDOWN BOARDS									
	Α .	В	С	D	3EA	3EB	3EC	3ED			
Core Spray	1A, 2A	1C, 2C	1B, 2B	1D, 2D	3A	3C	3B	3D			
RHR	1A, 2A	1C, 2C	1B, 2B	1D, 2D	ЗА	3C	3B	3D			
RHRSW	A1, A2	C1, C2	B2, B3	D2, D3	АЗ	сз	В1	D1			
RCW	1D	-			<u> </u>		3D	· <u>-</u>			
CRD	1B	-	-	_	3B		_				
480 Shdn Bd.	TS1A	TS1E, TS2A	TS1B, TS2E	TS2B	* TS3A	* TS3E	* TS3B				
480 Diesel AUX. Bd.	TDA *	* TDE	-	* TDB	_	_					
Fire Pump	A	В	. C		_		-				
SBGT	A *	_		B *		<u>-                                     </u>		c *			

\* Not required to be tripped when restarting an RHR pump.

		4kV UNIT BOARDS							
****	1A	1B	1C	2A	2B	2C	3A	3B	3C
CCW Pump	1A	1B	1C	2A	<sup>-</sup> 2B	2C	3A	3B	3C
Condensate Pump	1A	1B	1C	2A	2B	2C	3A	3B	3C
Cond. Booster Pump	1A	1B	1C	2A	2B	2C	3A	3B	3C
RCW Pump	1A	1B	1C	2A	2B	2C	ЗА	3B	3C
480V Unit Bd.	1A	1B		2A	2B		ЗА	3B	_
480V Water Supply Bd.	-	Bus 1	-	-	Bus 2	-	-	Bus 3	-
CRD Pump	-	-	1A	_	-	2A	_	_	3A

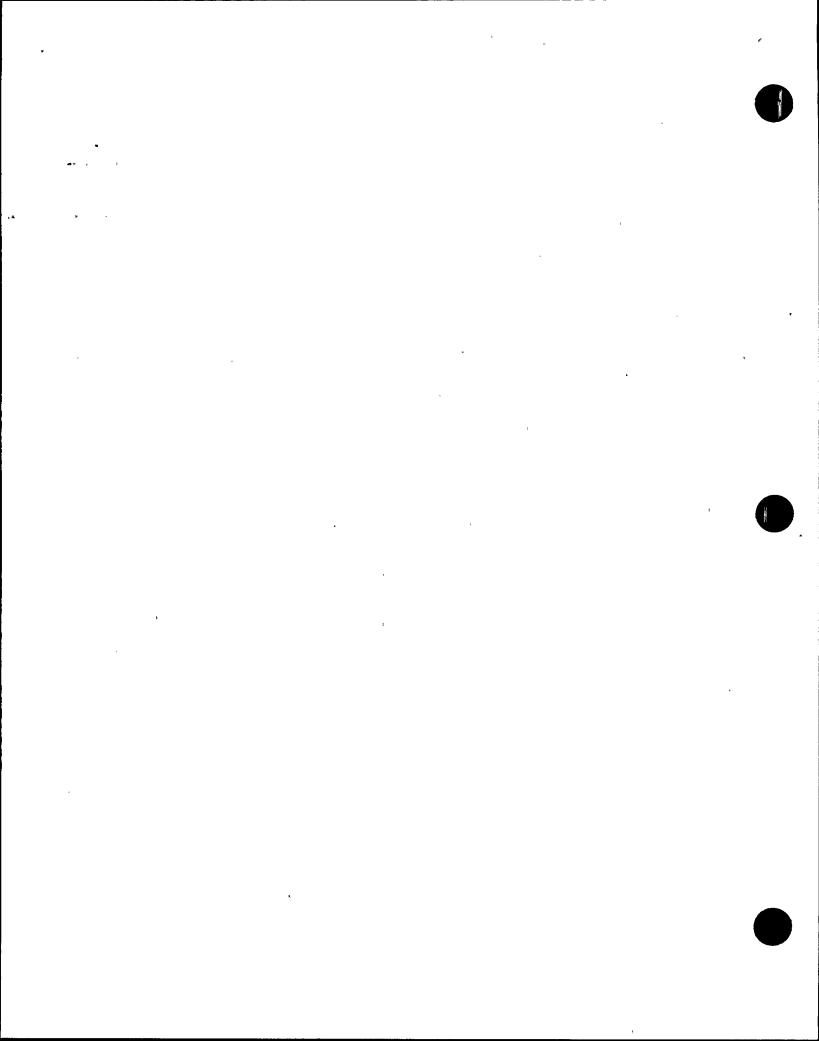


**REV 0038** 

UNIT 0 0-A0I-57-1A ATTACHMENT 4 (Page 2 of 3)

### 480V SHUTDOWN BOARDS

	1A	1B	2A	2B		3A	3B
Unit			Ĭ				
Preferred MG	1	TUP1	2	TUP2		3	TUP3
I&C	Ĭ		•				
Transformers	A	В	A	В		A	B
Control Bay					П	1	
Vent Bd.	A	-	_	-		-	
RMOV Bd.		1B, 1C,		2B,2C,			3B,3C,
Normal FDR.	1A, 1D	1E	2A, 2D	2E		3A, 3D	3E
RMOV Bd.	1B, 1C,		2B, 2C,		Г	3B, 3C,	
ALT. Fdr.	1E	1D, 1A	2E	2A, 2D		3E	3A, 3D
250V Battery							
Charger	1		2A	2B		3	4
Control and		<u> </u>		1			
Service Air Comp	A	-	מ	-		_	-
	1	İ		1		i	· ·
RBCCW	1A	1C, 1B	2A	2B		3A	3B
			i		Г		
RWCU	1A	1B	2A	2B		3A	3B
	1A-1,	1A-2,	2A-1,	2A-2,	Г	3A-1,	3A-2,
RX Recirc MG Oil	1B-1	1B-2	2B-1	2B-2		3B-1	3B-2
Standby	<del>                                     </del>	<del> </del>			Г		
Liquid Control	1A	1B	2A	2B		3A	3B
Fuel Pool	<del> </del>	<u> </u>		I	_	i	
Cooling	1A	1B	2A	2B		3A	3B
	1A-1,	1A-2,	2A-1,	2B-1,	Т	3A-1,	3B-1,
Drywell Blower	1B-1	1B-2	2A-2	2B-2		3A-2	3B-2
Cond. Demin. Bd.	1				┢		<del>                                     </del>
Emer Fdr.	1 -	1	l -	2		l _	3
Main	<del> </del>		<del> </del>	<del>   </del>	┢	<u> </u>	<del>                                     </del>
Turbine TGOP	_	YES	l –	YES		YES	-
Control Bay					Н	<del></del>	<del>                                     </del>
Chiller	A	В -		-		A	1
	<del> </del>	<del></del>			┝		<del> </del>
RCW Booster Pump	_	l –	_	2A		_	3A
New Boobeel Lamp			<del> </del>		┝		
Diesel Aux. Bd.	l _	_	_	_		3EA	3EB
DIESCI AUN. DU.		<del> </del>	<del> </del>	<del>                                     </del>	┝	<del>                                     </del>	<del> </del>
HVAC Board	l _	_	_	_		l _	В
HAVE BOATE	I	l .	J	1 1	ı	1	, ,

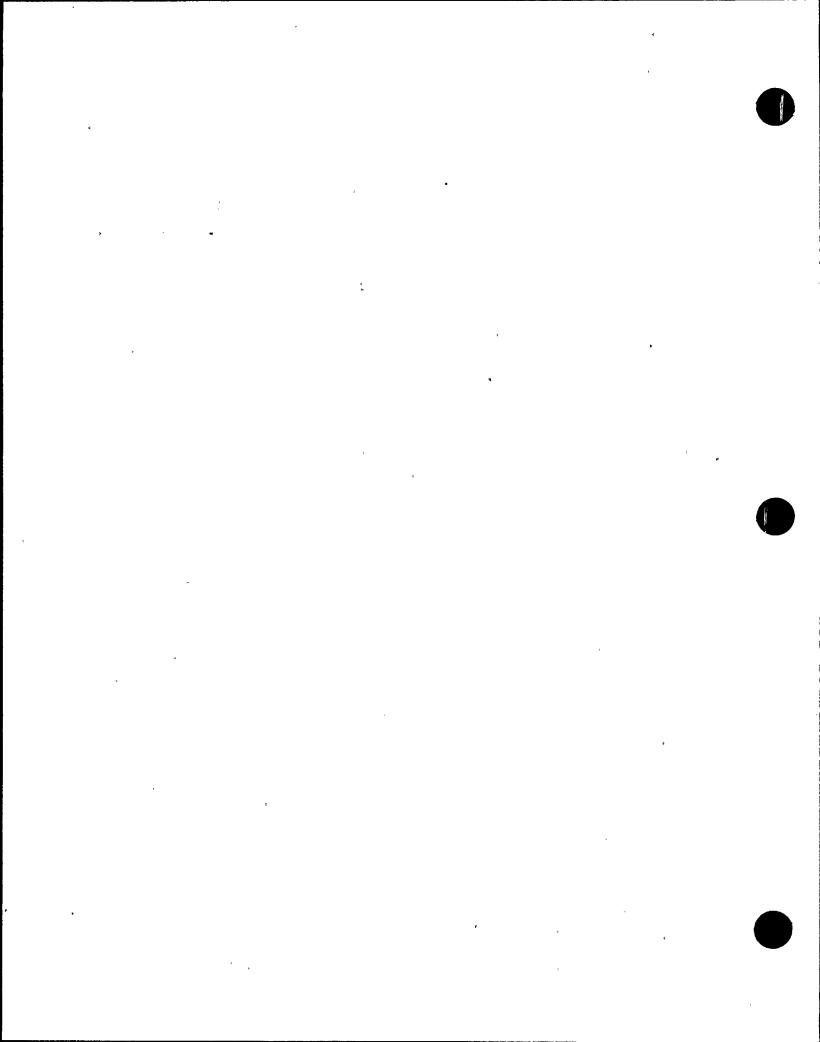


TITLE: LOSS OF OFFSITE POWER (161 and 500 KV)/STATION BLACKOUT

**REV 0038** 

UNIT 0 0-A0I-57-1A ATTACHMENT 4 (Page 3 of 3)

			480V UN	NIT BOARDS		
	1A	1B	2A	2B	3A	3B
TMOV Bd.	1A	1B, 1C	2A	2B, 2C	3A	3B, 3C
TBV Bd.	1A	18	2A	2B	3A	3B
RxBV Bd.	1A, 1B	-	2A, 2B	-	3A, 3B	-
Cond. Demin. Bd.	1	-	· 2		3	-
YARD CAB	_	1	_	2		3
Vacuum Pump	1A	1B	2A·	2B	3A	3B
RFPT AUX. Oil Pump	1A	1B	2A	2B	3A	3B .
Gen. Bus Cooling Fan	NOR FDR	ALT FDR	NOR FDR	ALT FDR	NOR FDR	ALT FDR
EHC Pump	1A	1B	2A	2B	3A	3B
Stator Clg. Pump	1A	1B	2A	2B	3A	3B
Motor Suction Pump	_	YES	_	YES	_	YES



TITLE: LOSS OF OFFSITE POWER (161 and

500 KV)/STATION BLACKOUT

**REV 0038** 

UNIT 0 0-A0I-57-1A ATTACHMENT 5 (Page 2 of 2)

#### COMMON HVAC EQUIPMENT OPERATION

### Table 3

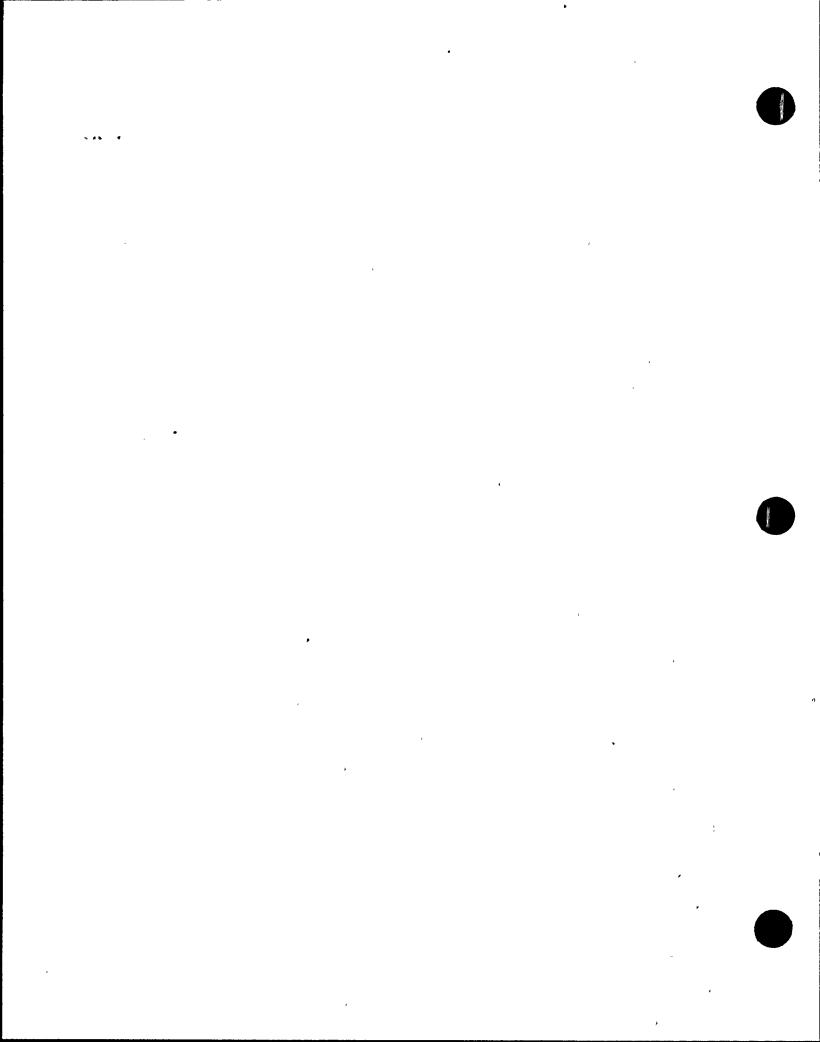
Tood	I KW	Source/BKR	Source 2/BKR
Load		All 480V Loads	All 480V Loads
DG Exhaust Fan	5.6	Note 1	Note 2
DG Aux Bd Xfmr TDE Exh Fan	.33	DG Aux B/2D	None
DG Aux Bd Rm Exh Fan	.75	Note 1	Note 2
Bd Rm Supply Fan 1A/1B	17.07		1B (RMOV 1B/17A)
Bd Rm Supply Fan 3A/3B	13.05	3A (CB VB B/5B)	3B (RMOV 3B/17A)
Batt & Bd Rm Exh Fan 1A/1B	4.9	1A (CB VB B/6C)	1B (CB VB A/2F)
Batt & Bd Rm Exh Fan 3A/3B	1.87	3A (CB VB B/3C)	3B (CB VB A/6F)
S/D Bd Rm Exh Fan 1A	4.74	1A (RMOV 1A/1A)	None
S/D Bd Rm Exh Fan 3A	4.63	3A (RMOV 3A/1A)	None
250V S/D Bd Batt Rm Exh Fan Ul	.37	(RMOV 1A/R9A)	(RMOV 1B/R9D1)
250V S/D Bd Batt Rm Sup Fan U1	.37	(RMOV lA/R9B)	(RMOV 1B/R9D2)
250V S/D Bd Batt RM Exh Fan U2	.37	(RMOV 2A/R9C2)	(RMOV 2B/R9D1)
250V S/D Bd Batt Rm Sup Fan U2	.37	(RMOV 2A/R9E)	(RMOV 2B/R9D2)
EL. 593 AHU 1A/1B	24.83	1A (CB VB	
	1	A/R1C)	1B (CB VB B/2E)
EL. 593 AHU 3A/3B	14.92	3A (CB VB A/6D)	3B (CB VB B/R2D)
250V Batt Rm 3EB Exh Fan A/B	.37	A (DG 3A/2C1)	B (DG 3B/5C)
Main CR AHU 1A/1B	13.38	1A (CB VB A/1A)	1B (CB VB B/5A)
Unit 3 CR AHU 3A/3B	18.65	3A (CB VB A/3F)	3B (CB VB B/R2C)
Spreading Rm Sup Fan	4.57	1 (CB VB A/1C)	2 (CB VB B/3E)
Spreading Rm Exh Fan	4.98	A (CB VB A/7E)	B (CB VB B/6E)
Relay Room AHU A/B	5.6	A (CB VB A/2E)	B (CB VB B/2B)
Control Bay Chiller 1A/1B	163.5	1A (SD BD 1A/2A)	1B (SD BD 2B/5A)
CB Chiller 1A/1B Oil Pump	1.38		1B (CB VB B/5D)
Control Bay Chiller 3A/3B	111.9	3A (SD BD 2A/7A)	3B (SD BD 3B/3D)
Chilled Water Circ Pump 1A/1B	13.05	1A (CB VB A/6C)	1B (CB VB B/5E)
Chilled Water Circ Pump 3A/3B	7.46	3A (CB VB A/5E)	3B (CB VB B/2A)
SD BD Rm 3EA & 3EB Chiller	20.33	(RMOV 3A/R9A)	(RMOV 3A/R9B1)
SD BD Rm 3EC & 3ED Chiller	20.33	(RMOV 3B/R9A)	(RMOV 3B/R9B1)
SD BD RM 3EA & 3EB CW Pump	4.7	(RMOV 3A/R9C)	(RMOV 3A/R9D)
SD BD Rm 3EC & 3ED CW Pump	4.79	(RMOV 3B/R9C)	(RMOV 3B/R9D)
SD BD Rm 3EA & 3EB AHU	4.3	(RMOV 3A/R9E)	(RMOV 3A/R9F)
SD BD Rm 3EC & 3ED AHU	4.79	(RMOV 3B/R9E)	(RMOV 3B/R9F)
Unit 1 SDBR ACU		(RMOV 1A/9A )	(RMOV 1B/13D1)
Unit 2 Board Room ACU	60.57	(RMOV 2A/1B)	(RMOV 2B/8A1)
Unit 3 Elec Board Rm ACU	66.86	(RMOV 3A/9A)	(RMOV 3B/10B)
250V Batt Charger for Unit	113.05	Multiple	Multiple Sources
Batt & BD		Sources	
4kV SD BD Batt Charger A-D, 3EB	8	Note 3	Note 3
DG Battery Charger A-D, 3A-3D		Note 1	Note 1

Note 1 - From DG Aux Board A or 3EA according to DG involved.

Note 2 - From DG Aux Board B or 3EB according to DG involved.

Note 3 - Shutdown Board Battery Chargers are located on RMOV 1A (14C1),

RMOV 1B (17B1), RMOV 2A (5A2), RMOV 2B (4C), and DG Aux Board 3EA (4C1).



**REV 0038** 

UNIT 0 0-AOI-57-1A ATTACHMENT 1 (Page 3 of 7)

### TABLE 2

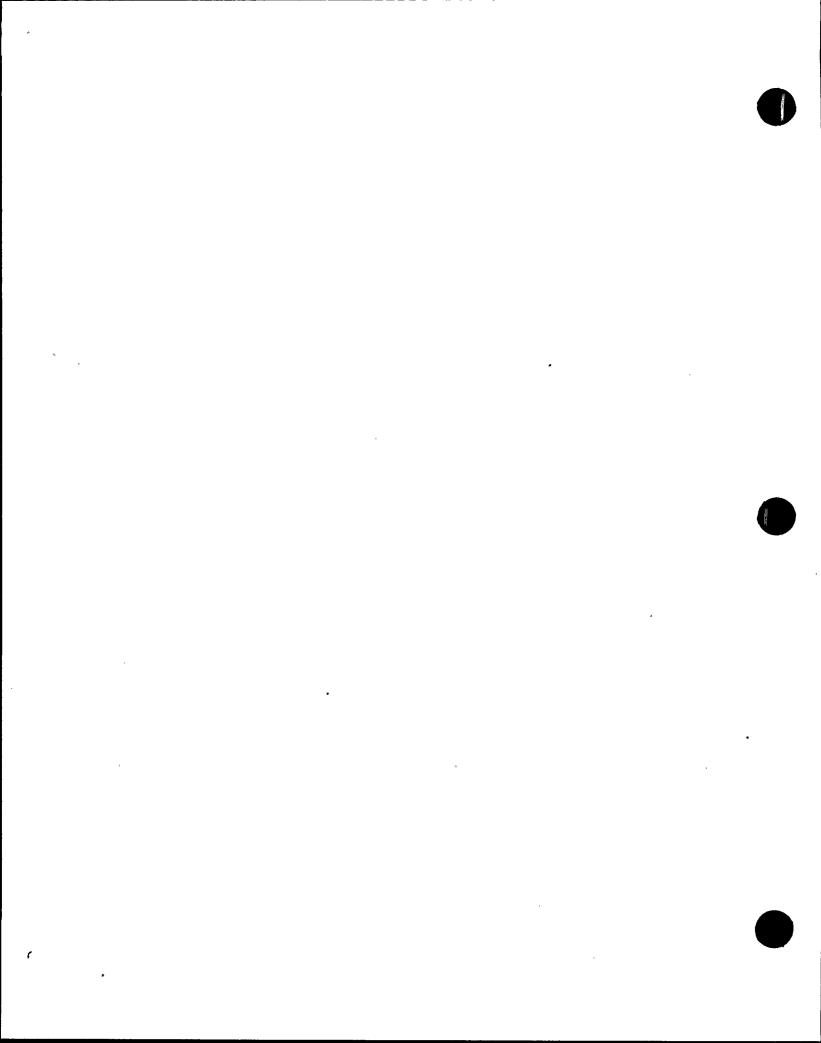
BOARD	NORMAL POWER SUPPLY	ALTERNATE POWER SUPPLY
480V SD BD 1A	4kV SD BD A	4kV SD BD B
480V SD BD 1B	4kV SD BD C	4kV SD BD B
480V SD BD 2A	4kV SD BD B	4kV SD BD C
480V SD BD 2B	4kV SD BD D	4kV SD BD C
480V SD BD 3A	4kV SD BD 3EA	4kV. SD BD 3EB
480V SD BD 3B	4kV SD BD 3EC	4kV SD BD 3EB
480V RMOV BD 1A	480V SD BD 1A	480V SD BD 1B
480V RMOV BD 1B	480V SD BD 1B	480V SD BD 1A
480V RMOV BD 1C	480V SD BD 1B	480V SD BD 1A
480V RMOV BD 1D	MG Feed from 480V SD BD 1A	
480V RMOV BD 1E	MG Feed from 480V SD BD 1B	MG Feed from 480V SD BD 1A
480V RMOV BD 2A	480V SD BD 2A .	480V SD BD 2B
480V RMOV BD 2B	480V SD BD 2B	480V SD BD 2A .
480V RMOV BD 2C	480V SD BD 2B	480V SD BD 2A
480V RMOV BD 2D	MG Feed from 480V SD BD 2A	MG Feed from 480V SD BD 2B
480V RMOV BD 2E	MG Feed from 480V SD BD 2B	MG Feed from 480V SD BD 2A
480V RMOV BD 3A	480V SD BD 3A	480V SD BD 3B
480V RMOV BD 3B .	L	480V SD BD 3A
480V RMOV BD 3C		480V SD BD 3A
480V RMOV BD 3D	MG Feed from 480V SD BD 3A	
480V RMOV BD 3E	MG Feed from 480V SD BD 3B	MG Feed from 480V SD BD 3A
480V Diesel Aux BD A	4kV SD BD A	4kV SD BD B
480V Diesel Aux BD B	4kV SD BD D	4kV SD BD B
480V Diesel Aux BD 3EA	480V SD BD 3A	480V SD BD 3B
480V Diesel Aux BD 3EB	480V SD BD 3B	480V SD BD 3A
	,	
480V Cont. Bay Vent BD A	480V SD BD 1A	480V COMM BD-1
480V Cont. Bay Vent BD B	480V HVAC BD B	480V COMM BD 3
480V HVAC BD B	480V SD BD 3ED	480V SD BD 3B .

### TABLE 3

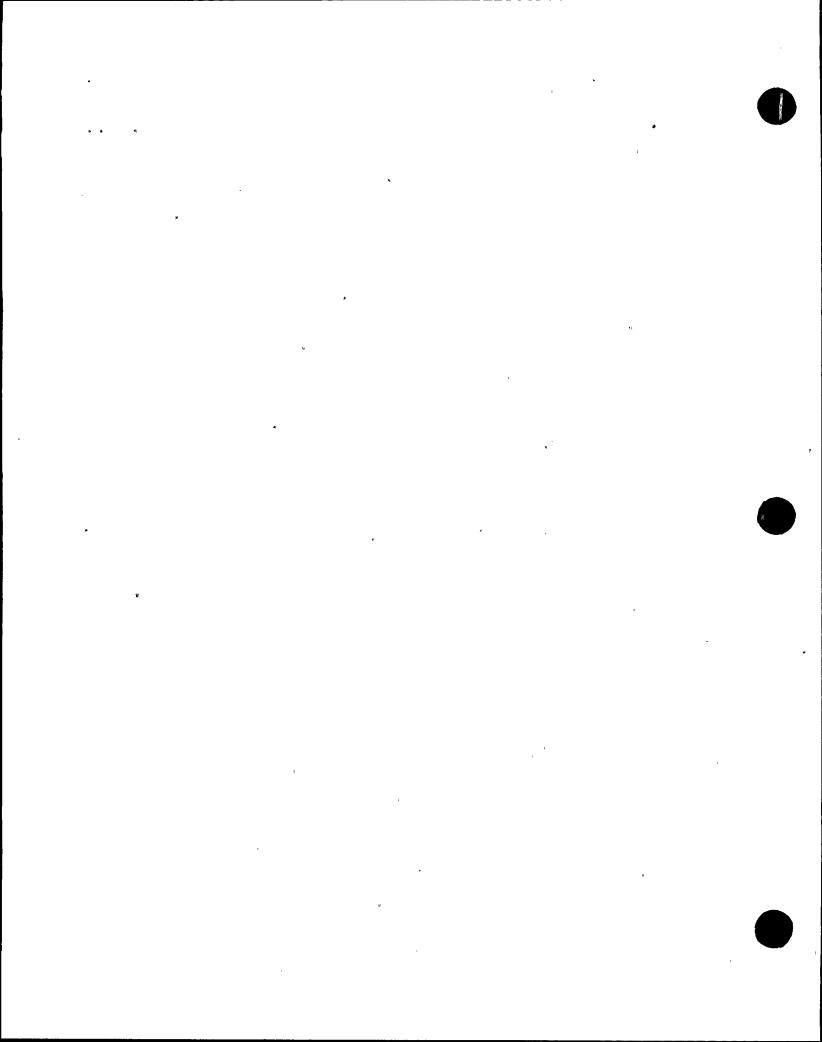
Shutdown Board	A	В	С	D	3EA	3EB	3EC	3ED
NORM FDR BKR	1614	1616	1718	1724	1334	1336	1338	1342
* ALT FDR BKR	1716	1714	1624	1618	1726	1728	1626	1628
D/G BKR	1818	1822	1812	1816	1838	1842	1832	1836
EMER FDR BKR	1824	1828	1814	1826	1844	1848	1834	1846

### \* NOTE:

A, B, C, and D Shutdown Board ALT FDR BKRS will be unavailable during accident conditions on Unit 2 due to CASA and CASB contacts in the breaker trip circuits



4160V LOADS

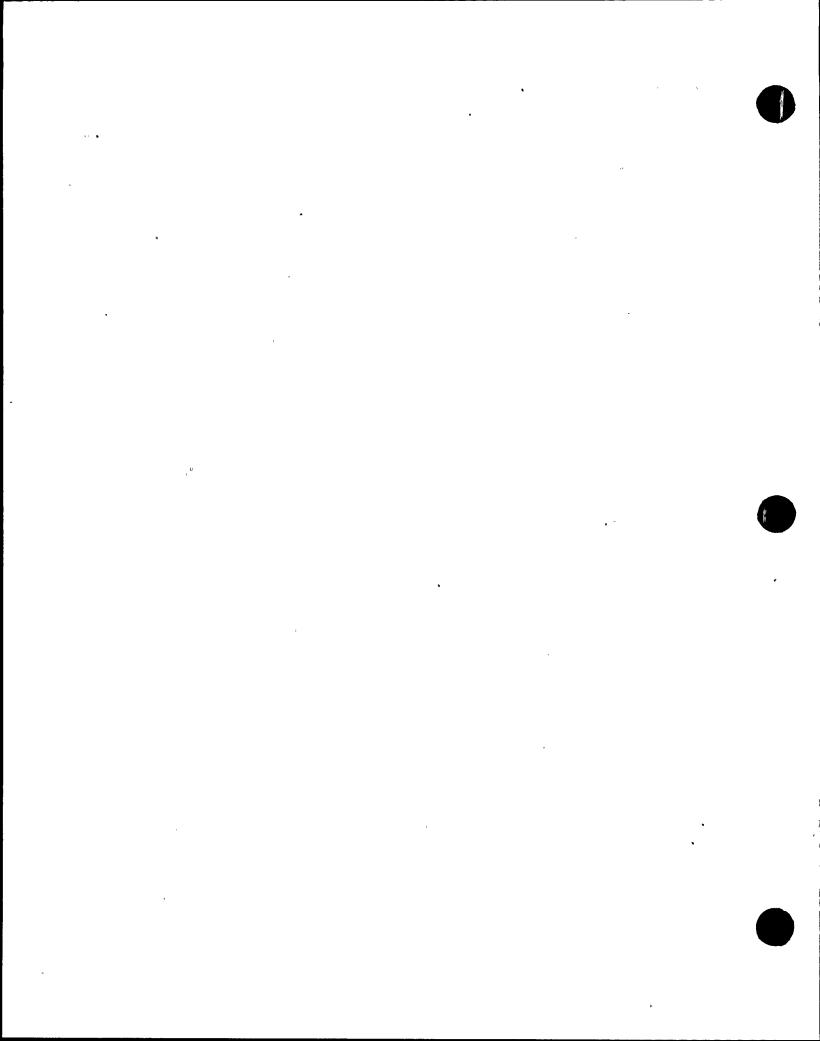


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 34 of 50)

	•	•	Date	
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
<b>,</b>	Control Bay - 4160V Shutdown	Board A - El 62	1'	
1	0-BKR-211-000A/001			_
	BKR 1612 S/D BUS 1 FROM 4KV UNIT BD 1A	CONNECTED	0	/
3	0-BKR-211-000A/003			
,	BKR 1614 TO 4KV S/D BD A FROM S/D BUS 1	CONNECTED	0	/
4	0-BKR-211-000A/004 BKR 1824 TO 4KV S/D BD A FROM S/D BD 3EA	CONNECTED	0	/
5	0-BKR-211-000A/005 480V S/D BD 1A			
	TRANSFORMER TS1A	CLOSED	0 ,	/
6	CORE SPRAY PUMP 1A		1	Aligned by BF 01-75



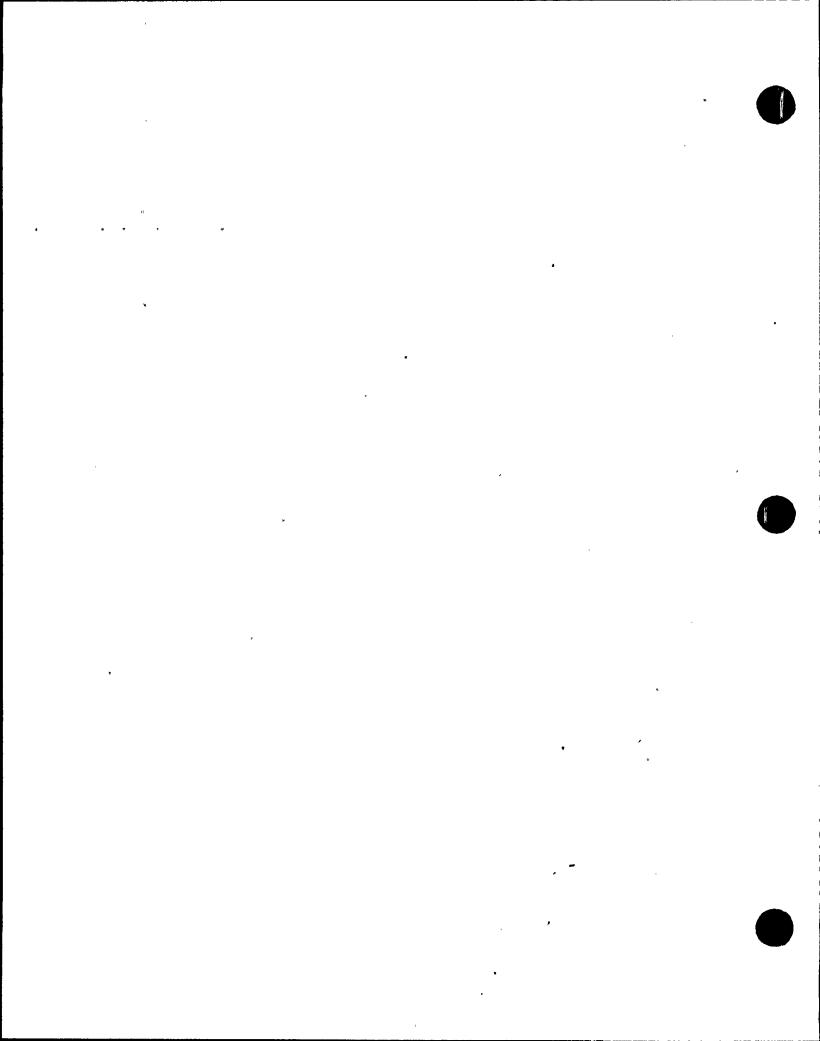
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UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 35 of 50)

	•		Date _	*
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Control Bay - 4160V Shutdown E		21'	
7	2-BKR-075-0005 CS PUMP 2A MOTOR BREAKER		2	Aligned by 2-01-75
10	0-BKR-023-0001 RHRSW PUMP A1	·		Aligned by 0-01-23
11	FIRE PUMP A		0	Aligned by 0-01-26
13	CONTROL ROD DRIVE HYDRAULIC FEED PUMP 1B		<sup>2</sup> .	Aligned by 2-01-85
16	RAW COOLING WATER PUMP 1D		1	Aligned by 1-01-24
17	0-BKR-023-0005 RHRSW PUMP A2		0	Aligned by 0-01-23
18	RESIDUAL HEAT REMOVAL PUMP 1A		1	Aligned by 1-01-74
19	2-BKR-074-0005 RESIDUAL HEAT REMOVAL PUMP 2A		2	Aligned by 2-01-74
21	0-BKR-211-000A/021 480V DIESEL AUX BD XFMR TDA	CLOSED	0	/
22	0-BKR-211-000A/022 BKR_1818 TO 4KV S/D BD A FROM D/G A	CONNECTED	0	/
24	0-BKR-211-000A/024 BKR 1716 TO 4KV S/D BD A FROM S/D BUS 2	CONNECTED	0	/

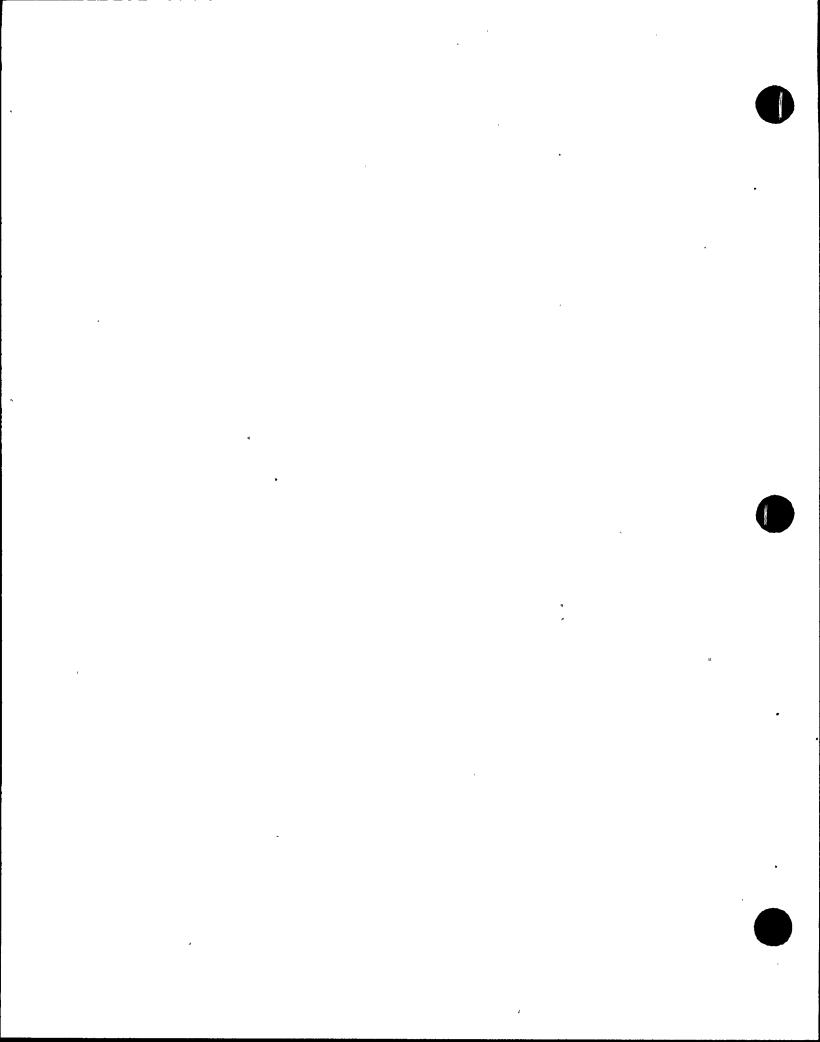


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 36 of 50)

			Date	
Panel/ Breaker	Component	Required	Unit	Initials
Number	Description	Position		1st/IV
	Control Bay - 4160V Shutdown Bo	pard C - El 62	:1'	
2	0-BKR-211-000C/002			
	ALT SUPPLY TO S/D BD C FROM S/D BUS 1	CONNECTED	0	/
4	0-BKR-211-000C/004			•
	BKR 1812 TO 4KV S/D BOARD C FROM D/G 1C	CONNECTED	0	/
5	0-BKR-211-000C/005			
	NORM FDR FOR TRANSFORMER TS2E	CLOSED	2	/
6 .	CORE SPRAY PUMP 1B		1	Aligned by BF 01-75
7	2-BKR-075-0033 CS PUMP 2B MOTOR BREAKER .		2	Aligned by 2-01-75
	HOTOK BRIMING			
9	0-BKR-023-0088			
	RHRSW PUMP B3			Aligned by 0-01-67
10	FIRE PUMP C		0	Aligned by

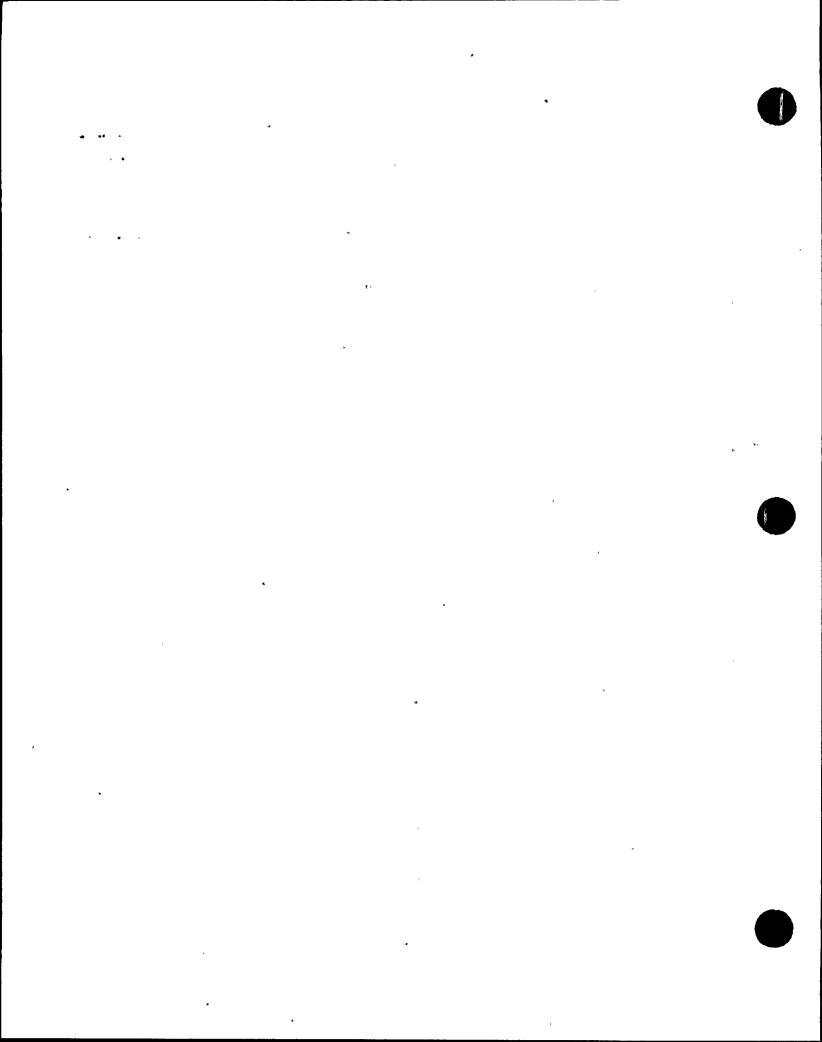


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 37 of 50)

	V.1.2.2			
	ħ		Date	
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
Namo CI	Control Bay - 4160V Shutdown Bo		21'	200721
16	0-BKR-023-0019 RHRSW PUMP B2	M	0	Aligned by 0-01-23
17	RESIDUAL HEAT REMOVAL PUMP 1B	•	1	Aligned by 1-01-74
18	2-BKR-074-0028 RESIDUAL HEAT REMOVAL PUMP 2B		2	Aligned by 2-01-74
20	0-BKR-211-000C/020 NORM FDR FOR TRANSFORMER TS1B	CLOSED	1	/
	0-BKR-211-000C/021 BKR 1814 TO 4KV S/D BD C FROM 4KV S/D BD 3EC	CONNECTED	0	/
22	0-BKR-211-000C/022 BKR 1718 NORM SUPPLY TO 4KV S/D BD C FROM S/D BUS 2	CONNECTED	0	/
26	0-BKR-211-000C/026 BKR 1722 NORM SUPPLY TO S/D BUS 2 FROM 4KV UNIT BD 2A	CONNECTED	0	

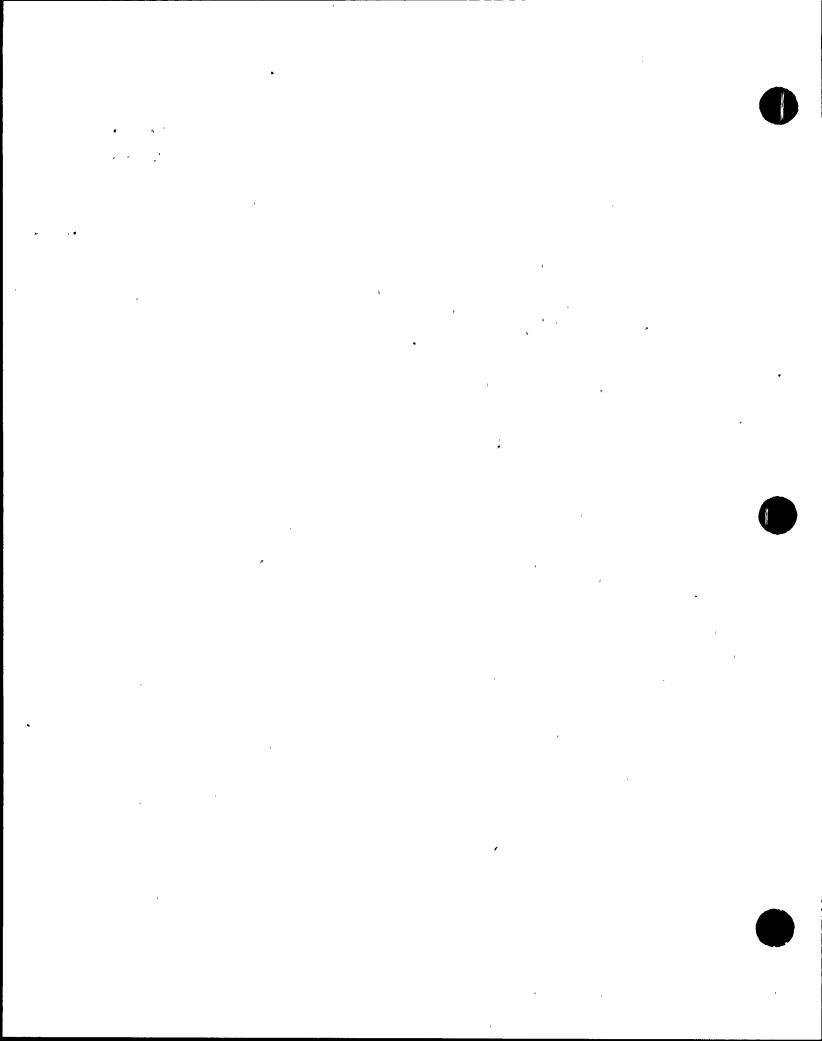


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 38 of 50)

			Date	
Panel/ Breaker	Component	Required	Unit	
Number	Description	Position		lst/IV
•	Control Bay - 4160V Shutdown Boa	ard B - El 59	3'	•
2	0-BKR-211-000B/002 BKR 1616 NORM SUPPLY TO 4KV S/D			
	BD B FROM S/D BUS 1	CONNECTED	0	/
4	0-BKR-211-000B/004 BKR 1822 TO 4KV S/D BD B			•
	FROM DIESEL GEN B	CONNECTED	0	/
5	0-BKR-211-000B/005 NORM SUPPLY TO TRANSFORMER TS2A			
	TO 480V S/D BOARD 2A	CLOSED	2	/
6	CORE SPRAY PUMP 1C		1	Aligned by BF 01-75
7	2-BKR-075-0014 CS PUMP 2C MOTOR BREAKER .		2	Aligned by 2-01-75
10	0-BKR-023-0008			
	RHRSW PUMP C1		0	Aligned by 0-01-23
11	FIRE PUMP B	v	0	Aligned by 0-01-26

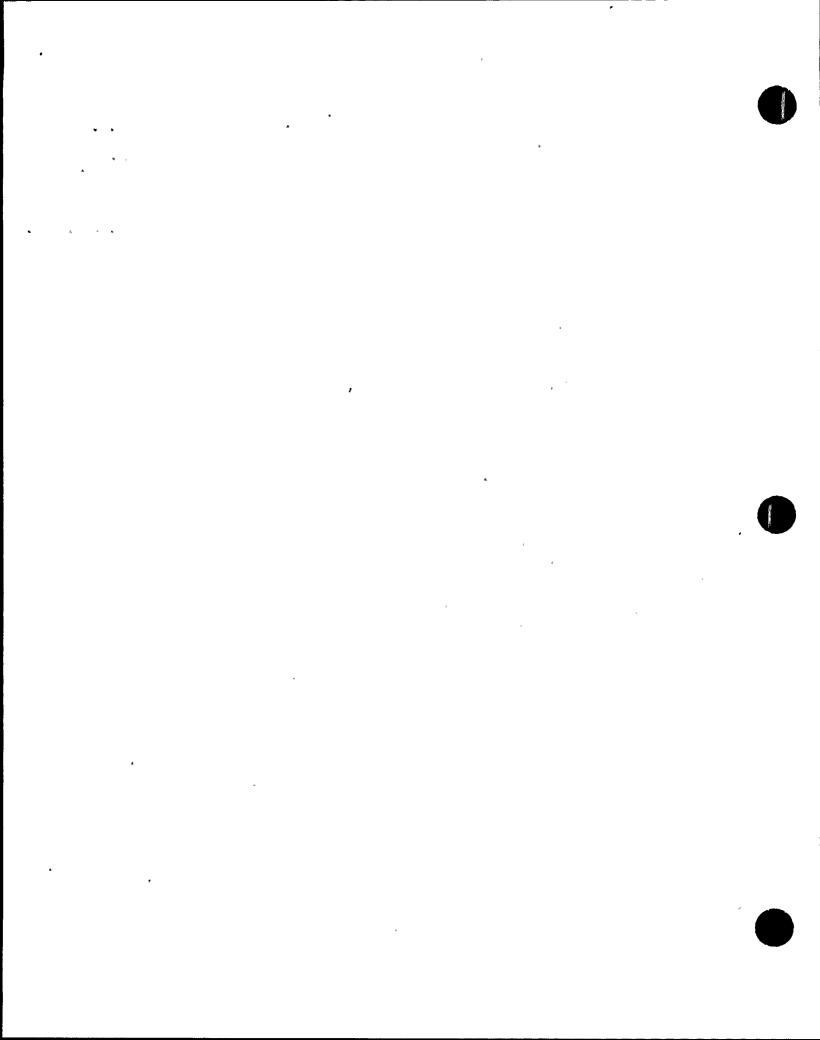


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 39 of 50)

	0.12. 0		Date	
D1/				
Panel/ Breaker	Component	Required	Unit	Initials
Number	Description	Position		lst/IV
	Control Bay - 4160V Shutdown Boa	rd B - El 59	93'	
14	0-BKR-211-000B/014 NORM SUPPLY TO TRANSFORMERS TDE			-
	& TS1E TO 480V DIESEL AUX BD A&B	CLOSED	0	/
15	0-BKR-023-0012			•
	RHRSW PUMP C2		0	Aligned by 0-01-23
16 ·	RHR PUMP 1C		1	Aligned by 1-01-74
17	2-BKR-074-0016		2	Aligned by
•	RESIDUAL HEAT REMOVAL PUMP 2C			<u>2-01-74</u>
19	0-BKR-211-000B/019			
	BKR 1828 TO 4KV S/D BD B	COMMECAND	0	,
<b>♦</b>	FROM 4KV S/D BD 3EB	CONNECTED	U	
20	0-BKR-211-000B/020			
	BKR 1714 ALT SUPPLY TO 4KV S/D BD B FROM S/D BUS 2	CONNECTED	0	,
	3/U DU D EKOM 3/U DUS Z	COMMECTED	U	
22	0-BKR-211-000B/022			
	BKR 1712 ALT SUPPLY TO S/D	CONNECTED	0	,
	BUS 2 FROM 4KV UNIT BD 1B	COMMECTED	U	/

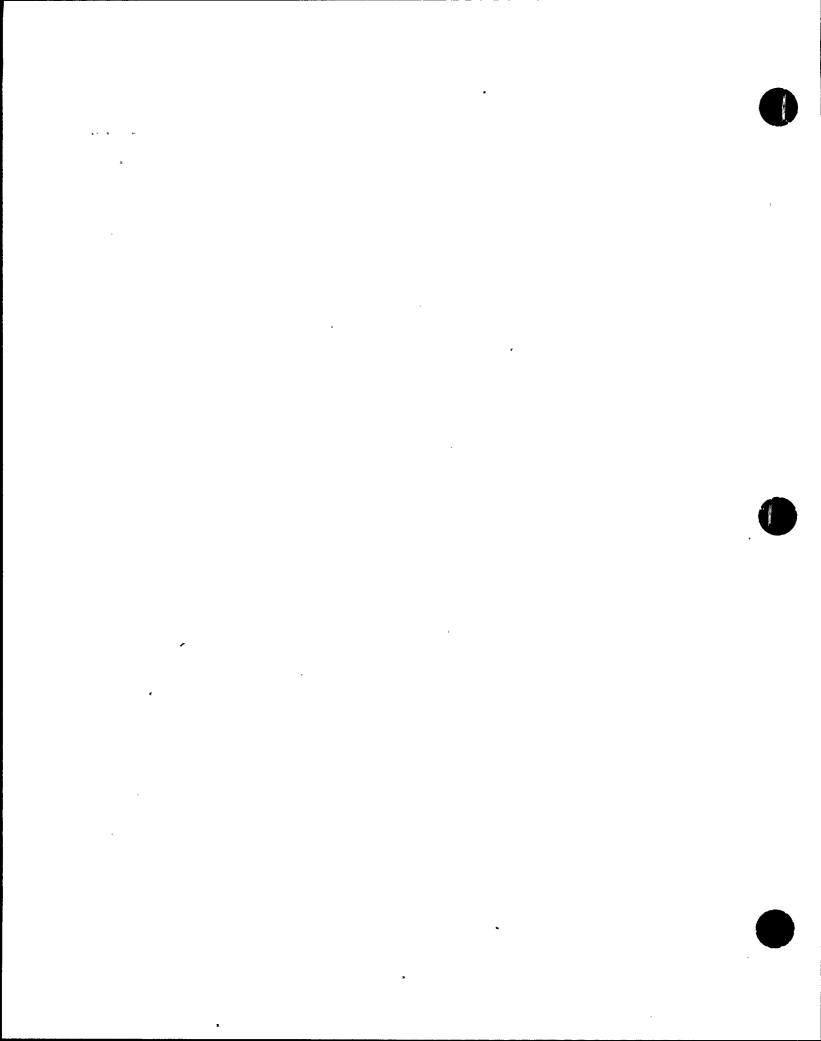


UNIT 0 0-01-57A ATTACHMENT 3

MAR, 28 1996

(Page 40 of 50)

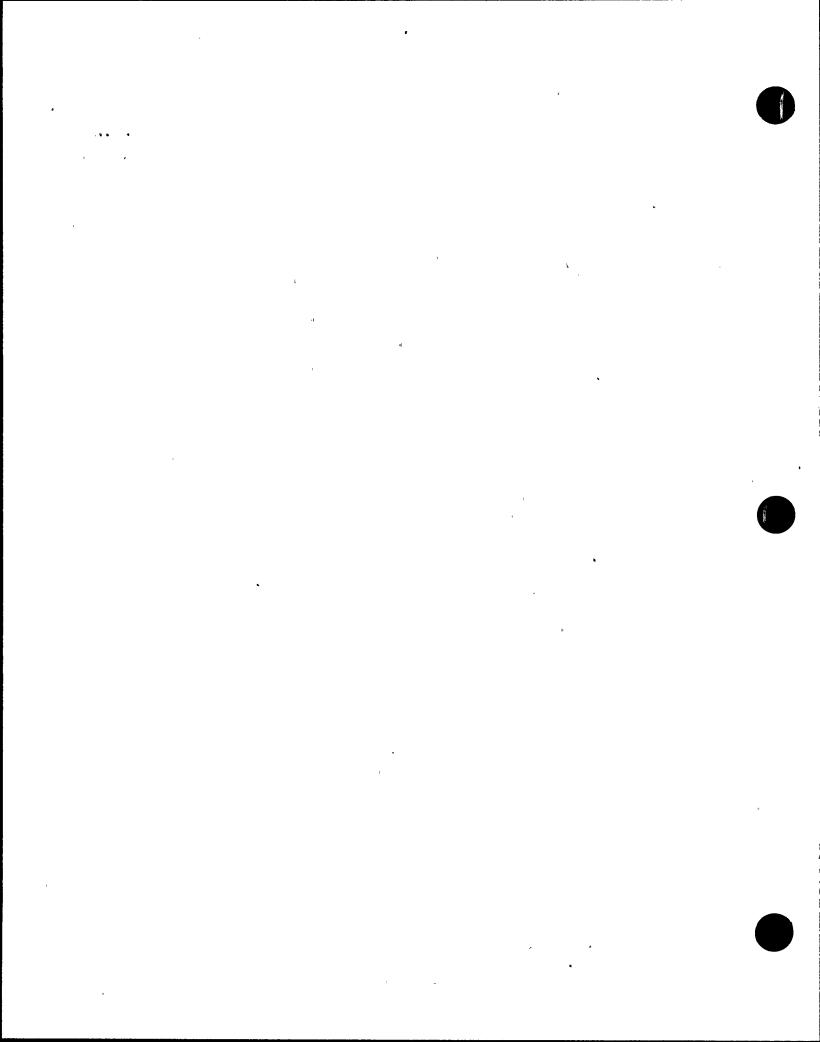
	0.11			
			Date	
Panel/				
Breaker	Component	Required	Unit	
Number	Description	Position		1st/IV
-	Control Bay - 4160V Shutdown Bo	pard D - El 59	3'	
1	0-BKR-211-000D/001			
	BKR 1622 ALT SUPPLY TO			
	S/D BUS 1 FROM 4KV UNIT BD 2B	CONNECTED	0	/
5	0-BKR-211-000D/005			•
	BKR 1618 ALT SUPPLY TO			
	4KV S/D BD D.FROM S/D BUS 1	CONNECTED	0	/
6	0-BKR-211-000D/006			
41	BKR 1826 TO 4KV S/D BD D			
	FROM 4KV S/D BD 3ED	CONNECTED	0	/
7	CORE SPRAY PUMP 1D		1	Aligned by
				BF 01-75
8	2-BKR-075-0042 CS PUMP 2D		2	Aligned by
	MOTOR BREAKER			<u>2-01-75</u>
10	0-BKR-023-0094			
	RHRSW PUMP D3	*	0	Aligned by
	,			<u>0-01-67</u>
13	0-BKR-211-000D/013			
	NORM SUPPLY TO TRANSFORMER TDB			
	TO 480V D/G AUX BD B	CLOSED	0	/



UNIT 0 .
0-OI-57A
ATTACHMENT 3
(Page 41 of 50)

MAR 28 1996

			Date	<del></del>
Panel/		, , , , , , , , , , , , , , , , , , ,		<u> </u>
Breaker	Component	Required	Unit	Initials
Number	Description	Position		1st/IV
	Control Bay - 4160V Shutdown Boa	ard D - El 5	93'	
15	0-BKR-023-0027	•		
	RHRSW PUMP D2		0	Aligned by 0-01-23
16	RESIDUAL HEAT REMOVAL PUMP 1D		1	Aligned by 1-01-74
17	2-BKR-074-0039 RESIDUAL HEAT REMOVAL PUMP 2D		2	Aligned by 2-01-74
19	0-BKR-211-000D/019 NORM SUPPLY TO TRANSFORMER TS2B TO 480V S/D BD 2B	CLOSED	2	/
20	0-BKR-211-000D/020 . BKR 1816 TO 4KV S/D BD D FROM DG 1D	CONNECTED	·o	/
22	0-BKR-211-000D/022 BKR 1724 NORM SUPPLY TO 4KV S/D BD D FROM S/D BUS 2	CONNECTED	0	· /



UNIT 0 0-01-57A ATTACHMENT 3 (Page 42 of 50)

MAR 28 1996

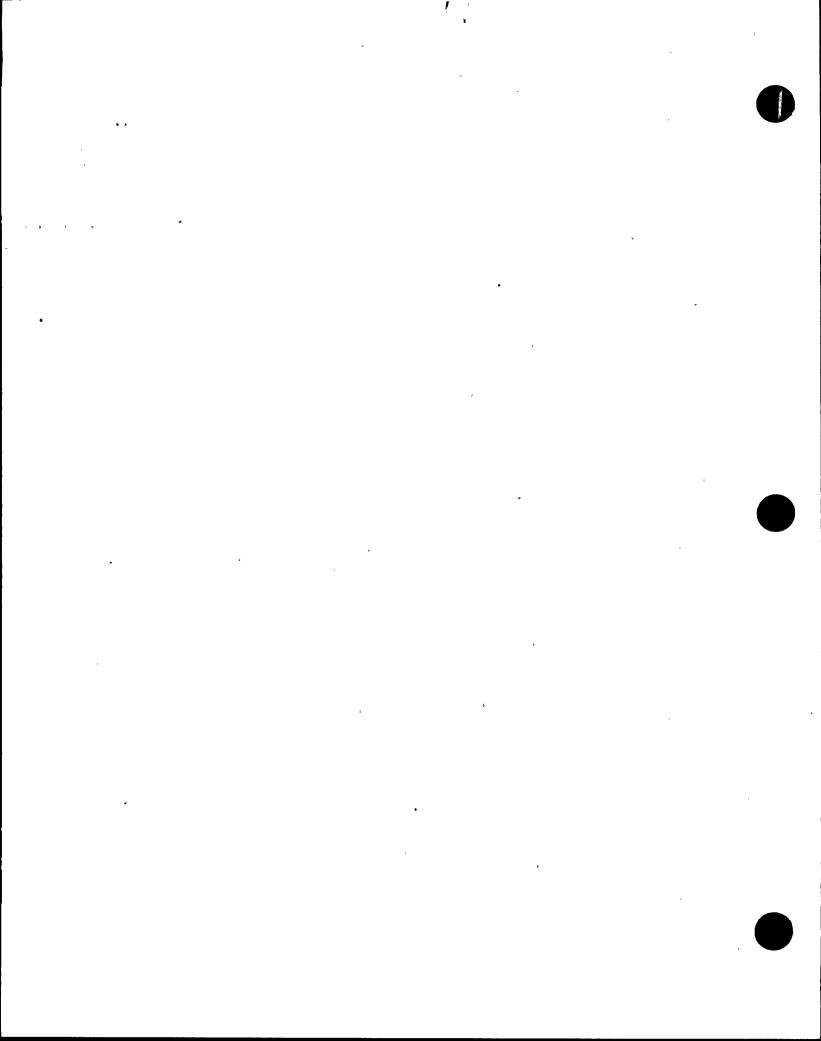
		•	Date	
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Unit 3 Diesel Gen Bldg - 4160V Shutdown (3-45E724-6)	Board 3EA	- El 583'	<i>;</i>
1	3-BKR-211-03EA/001 BKR 1844 TIE TO		F	4
	BKR 1824 4KV SD BD A	CONNECTED	0	/
4	3-BKR-211-03EA/004 BKR 1726 TIE FROM			
	BKR 1732 4KV BUS TIE BD	CONNECTED	0	/
5	0-BKR-023-0085 RHRSW PUMP A3		0	Aligned by 0-01-67
6	3-BKR-075-0005 CS PUMP 3A MOTOR BREAKER		3	Aligned by 3-0I-75
7	3-BKR-211-03EA/007 NORM FDR BKR 1334 TIE FROM BKR 1326 4KV UNIT BD 3A	CONNECTED	0	/
9	3-BKR-211-03EA/009 EMER FDR BKR 1838 FROM DIESEL GEN 3A	CONNECTED	0	/
10	3-BKR-211-03EA/010 NORM FDR TO 480V S/D BD 3A TRANSFORMER TS3A	CLOSED	3	/
11	3-BKR-085-0002 CONTROL ROD DRIVE HYDRAULIC FEED PUMP 3B	•	3	Aligned by 3-01-85
12	3-BKR-074-0005 RHR PUMP 3A		3	Aligned by 3-01-74

UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

· (Page 43 of 50)

			Date	
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Unit 3 Diesel Gen Bldg - 4160V Shutdown (3-45E724-8)	Board 3EC	- El 583'	
2	3-BKR-074-0028 RHR PUMP 3B	۳,	3	Aligned by 3-01-74
3	3-BKR-211-03EC/003 BKR 1626 TIE FROM BKR 1632 4KV BUS TIE BD	CONNECTED	0	/
6	3-BKR-211-03EC/006 BKR 1834 TIE TO S/D BD C	CONNECTED	0 .	/
7	. 3-BKR-211-03EC/007 NORM FDR TO 480V S/D BD 3B TRANSFORMER TS3B	CLOSED	О.	/
8	0-BKR-023-0015 RHRSW PUMP B1		ò	Aligned by 0-01-23
9	RAW COOLING WATER PUMP 3D		3	Aligned by 3-01-24
10	3-BKR-211-03EC/010 EMER FDR BKR FROM DIESEL GEN 3C	CONNECTED	0	/
12	3-BKR-211-03EC/012 NORM FDR BKR 1338 TIE FROM BKR 1332 4KV UNIT BD 3B	CONNECTED	0	/
13	3-BKR-075-0033 CS PUMP 3B MOTOR BREAKER	· Justinaus and	3	Aligned by 3-01-75

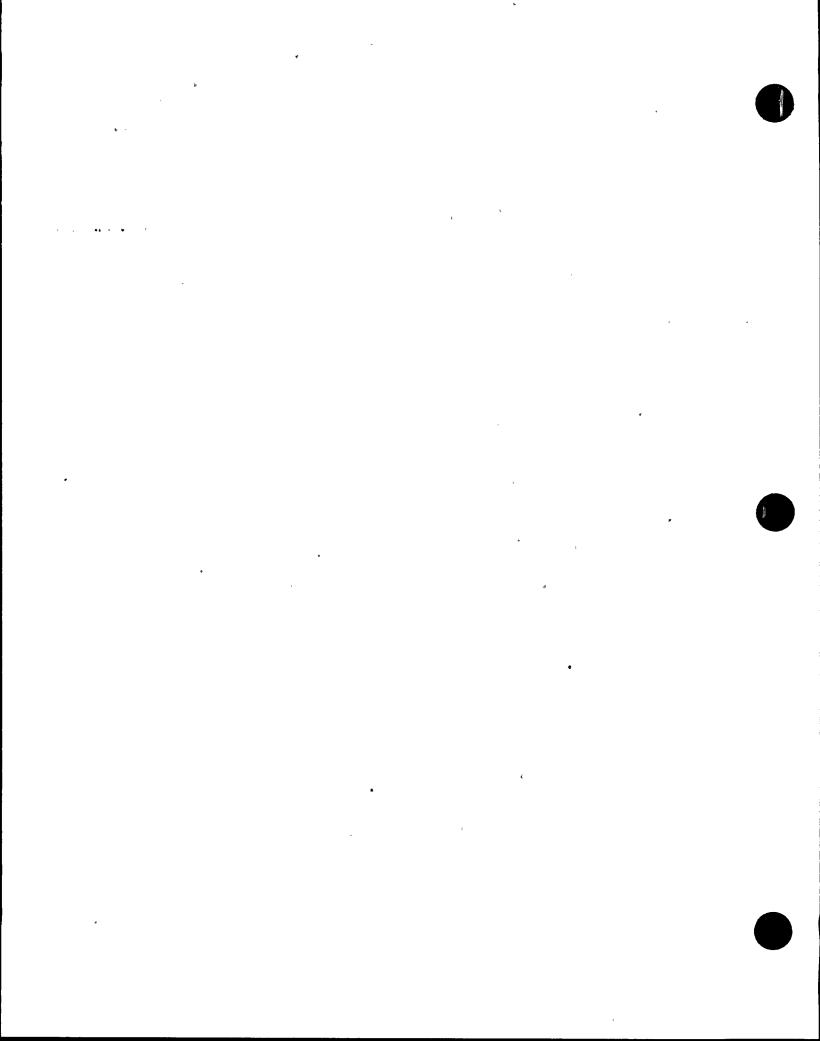


UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

(Page 44 of 50)

	, , , , , , , , , , , , , , , , , , , ,			
			Date	
Panel/		•		
Breaker	Component	Required	Unit	Initials
Number	Description	Positión		lst/IV
	Unit 3 Diesel Gen Bldg - 4160V Shutdown (3-45E724-7)	Board 3EB -	- El 565'	-
4	3-BKR-074-0016 RHR PUMP 3C		3	Aligned by 3-01-74
5	3-BKR-075-0014 CS PUMP 3C MOTOR BREAKER		3	Aligned by 3-01-75
6	3-BKR-211-03EB/006 BKR 1848 TIE TO BKR 1828 4KV S/D BD B	CONNECTED	0	/
8	3-BKR-211-03EB/008 BKR 1728 ALT FDR FROM BUS TIE BD BKR 1732 & 4KV S/D BD 3EA BKR 1726	CONNECTED	0	/
9	3-BKR-211-03EB/009 ALT FDR TO 480V S/D BD 3A & 3B TRANSFORMER TS3E	CLOSED	0	/
10	0-BKR-023-0091 ' RHRSW PUMP C3		0	Aligned by 0-01-67
11	3-BKR-211-03EB/011 EMER FDR BKR 1842 FROM DIESEL GEN 3B	CONNECTED	0	/
14	3-BKR-211-03EB/014 BKR 1336 NORM FDR FROM 4KV UNIT BD 3A BKR 1326 & 4KV S/D BD 3EA BKR 1334	CONNECTED	0	/



TITLE: SWITCHYARD AND 4160V AC ELECTRICAL SYSTEM

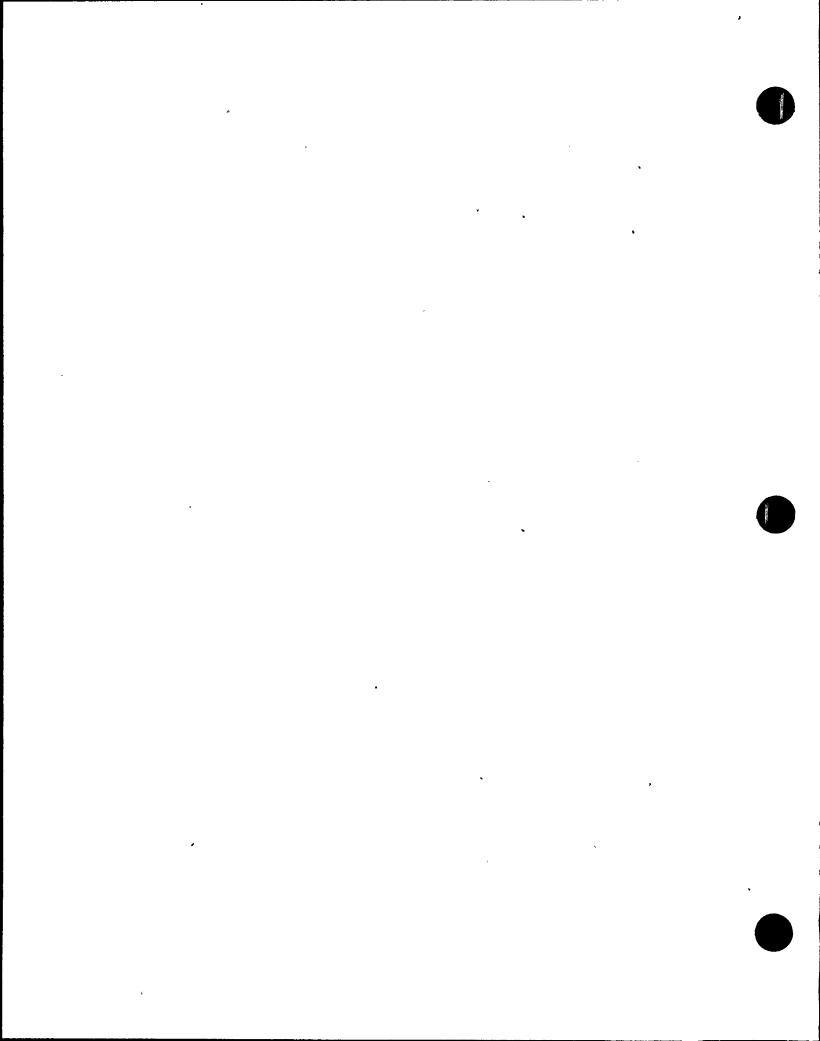
UNIT 0 0-01-57A ATTACHMENT 3

MAR 28 1996

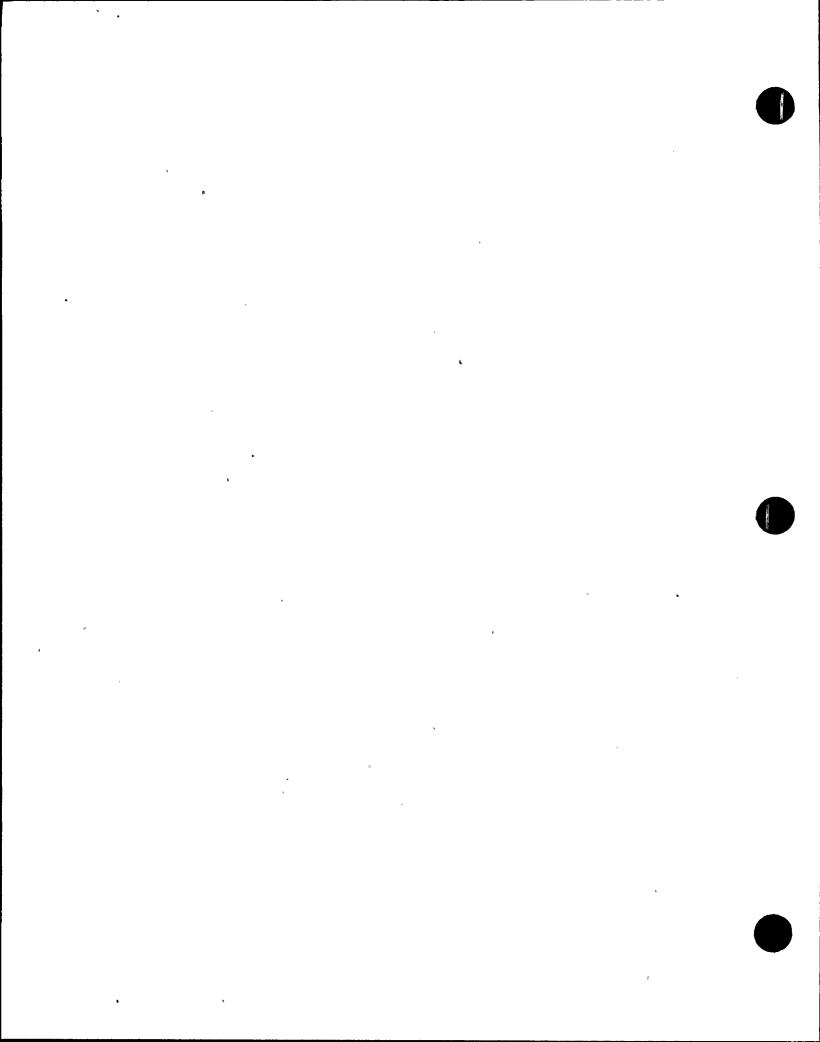
(Page 45 of 50)

#### SWITCHYARD AND 4160V AC ELECTRICAL SYSTEM ELECTRICAL LINEUP CHECKLIST UNIT 0

			Date	· · · · · · · · · · · · · · · · · · ·
Panel/ Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Unit 3 Diesel Gen Bldg - 4160V Shutdown (3-45E724-9)	n Board 3ED -	- El 565	Ť
1	3-BKR-211-03ED/001 BKR 1628 TIE FROM BKR 1632 4KV BUS TIE BD VIA PNL 4, 4KV S/D BD 3EC	CONNECTED	0	
4	3-BKR-211-03ED/004 BKR 1846 TIE TO BKR 1826 4KV S/D BD D	CONNECTED	0	/
5 ·	3-BKR-074-0039 RHR PUMP 3D		3	Aligned by 3-01-74
6	0-BKR-023-0023 RHRSW PUMP D1		0	Aligned by 0-01-23
7	3-BKR-211-03ED/007 NORM SUPPLY TO TRANSFORMER TSG1A TO 480V STANDBY GAS TRTMT BD	CLOSED	0	/
8	3-BKR-211-03ED/008 NORM SUPPLY BKR 1342 TIE FROM BKR 1332 4KV UNIT BD 3B VIA PNL 11, 4KV S/D BD 3EC	CONNECTED	0,	/
10	3-BKR-211-03ED/010 BKR 1836 EMER SUPPLY FROM DIESEL GEN 3D	CONNECTED	0	/
11	3-BKR-075-0042, CS • PUMP 3D MOTOR BREAKER	•	3	Aligned by 3-01-75
13	3-BKR-211-03ED/13 FEEDER TO 480V HVAC BD B TRANSFORMER	CLOSED	0	/



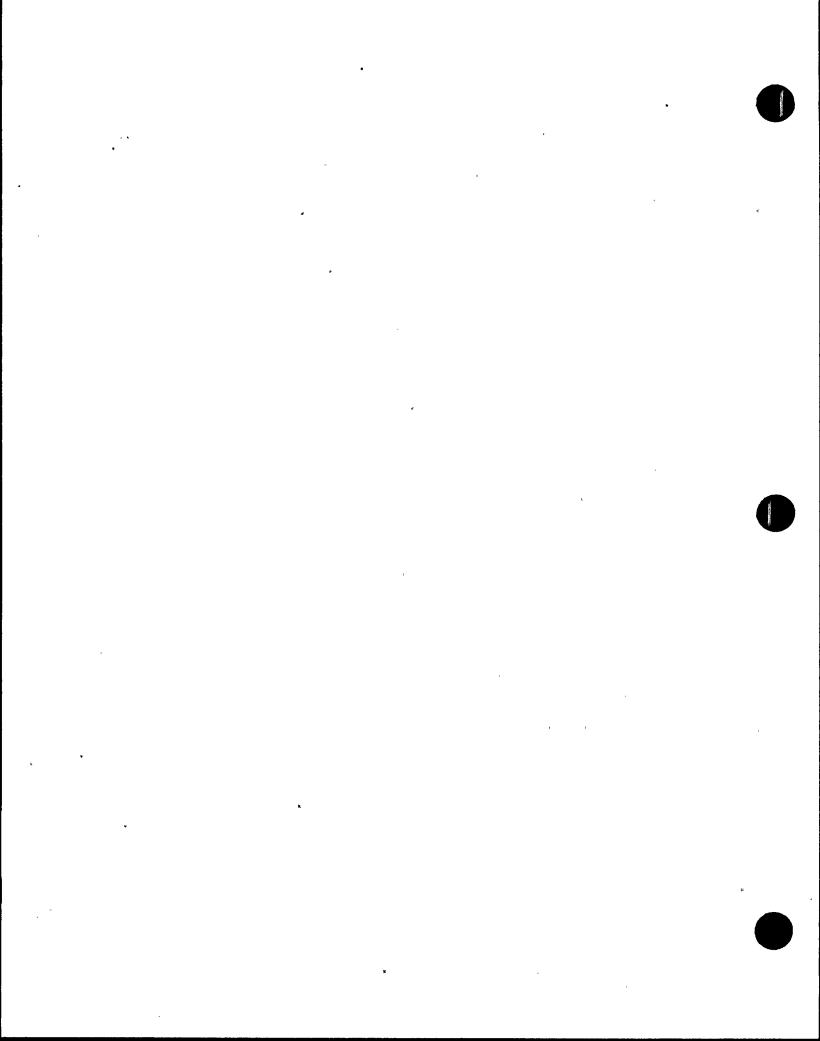
UNIT 1/2 DIESER ANX BOARDS



DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 3 of 12)

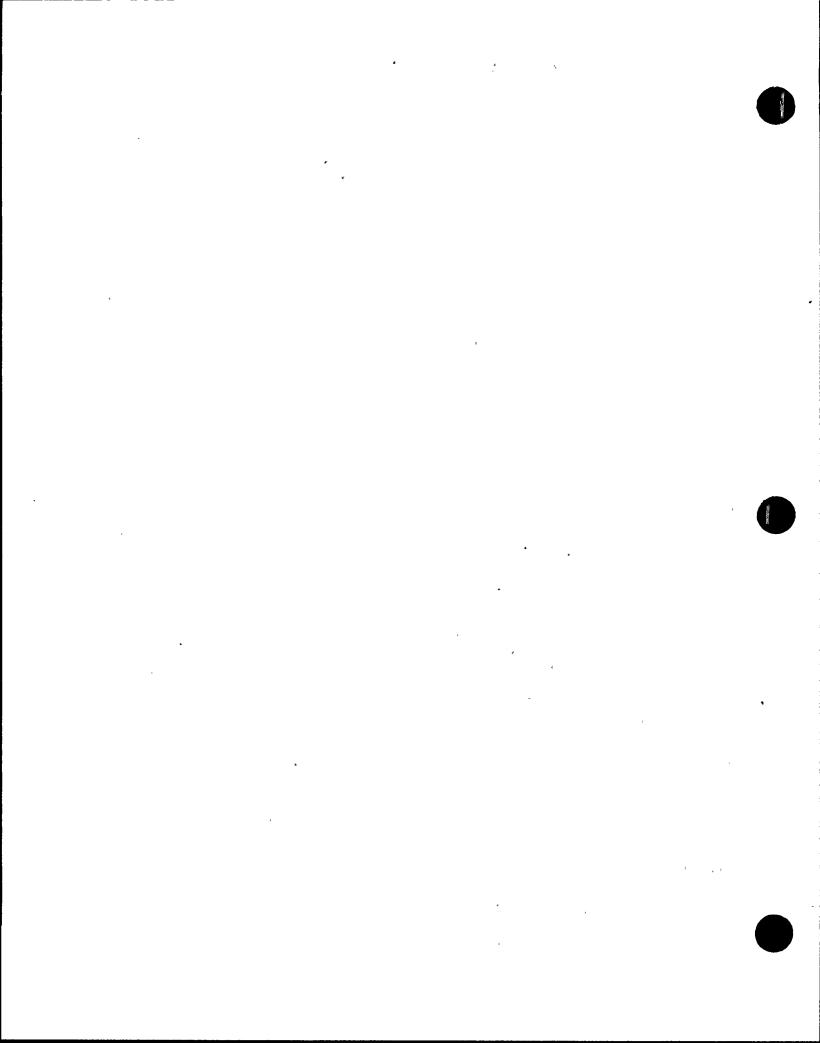
*		•	Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U1/2 Diesel Generator 480V A U1/2 Diesel Gen Bldg (0-45E732 - 1 &	- El 583'	d A	
1D	0-BKR-219-000A/01D NORMAL FEEDER BREAKER FROM 4KV SD BD A TRANSFORMER TDA	CLOSED	0	/
2A	STACK FILTER CUBICLE EXHAUST FAN A		0	ALIGNED BY 2-01-66
2B	0-BKR-030-0074 CENTRAL DIESEL INFO EXHAUST FAN		0	ALIGNED BY 0-01-30F
2C	DIESEL GENERATOR TRANSFORMER TDA EXHAUST FAN		0	ALIGNED BY 0-01-30F
2D	DIESEL GENERATOR BLDG. FUEL OIL TRANSFER PUMP		0	ALIGNED BY 0-01-18
2E1	CONTROL BAY ELEVATOR	ON	0	/
2F	STANDBY GAS TREATMENT BLDG 2 SUMP PUMP C		0	ALIGNED BY 0-01-40
3A	0-BKR-086-0669A DG A RIGHT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
ЗВ .	0-BKR-030-0186 DIESEL GENERATOR A BATTERY EXH FAN		0	ALIGNED BY 0-OI-82
3C	0-BKR-044-000A/03C DIESEL GENERATOR A ROOM	HEATER	0	ALIGNED BY
	•			0-0I-57B



DEC 28 1995 .

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 4 of 12)

•			Date	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U1/2 Diesel Generator 480V U1/2 Diesel Gen Bldg (0-45E732 - 1	- El 583'	d A	
3D	DIESEL GENERATOR A EXHAUST FAN A		0 .	ALIGNED BY 0-01-82
3E	0-BKR-082-0001AA DSL GEN A WATER HEATER		0	ALIGNED BY 0-01-82
3 <b>F</b>	0-BKR-254-0000AA DSL A BAT CHGR A	•	0	ALIGNED BY 0-OI-82
4A	0-BKR-086-0669B DG B RIGHT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
4B	0-BKR-030-0187 DIESEL GENERATOR B BATTERY EXH FAN	•	0	ALIGNED BY 0-01-82
4C	0-BKR-044-000A/04C DIESEL GENERATOR B ROOM HEATE	SR	0	ALIGNED BY 0-01-82
4D	0-BKR-030-0066 DIESEL GENERATOR B EXH FAN A		0	ALIGNED BY 0-OI-82
4E	0-BKR-082-0001BA DSL GEN B WATER HEATER		0	ALIGNED BY 0-OI-82
4F .	0-BKR-254-0000BA DSL GEN B BAT CHGR A		0	ALIGNED BY 0-01-82
5A	1-BKR-066-0029 SGTS/U3 DIL DUG OFF-GAS DILUTION FAN 1A	CT ON .	1	/

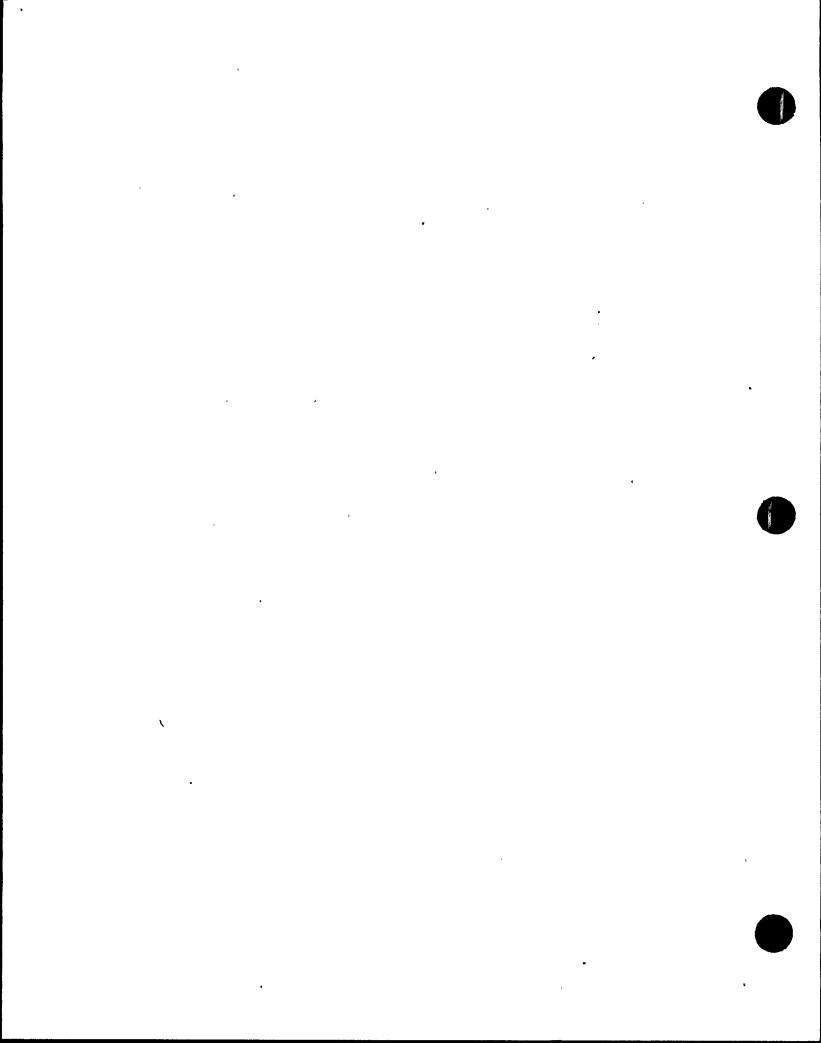


DEC 28 1995

UNIT 0 0-01-57B ATTACHMENT 3A

(Page 5 of 12)

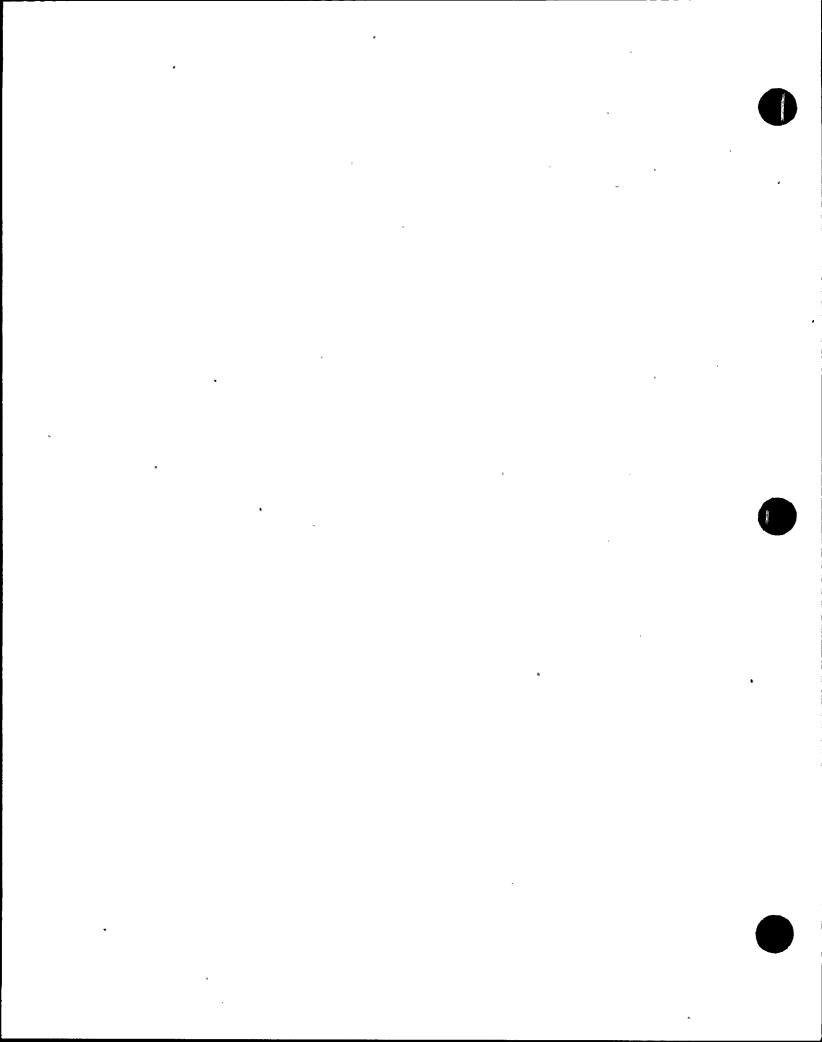
	•		Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U1/2 Diesel Generator 480V A U1/2 Diesel Gen Bldg (0-45E732 - 1 8	- El 583'	l A	
5C	OFF-GAS DILUTION FAN 2A	•	2	ALIGNED BY 2-01-66
5E	3-BKR-066-0029 OG DILUTION AIR FAN 3A & FCV-6	56 <b>-</b> 30	3	ALIGNED BY 3-01-66
6D	0-BKR-219-000A/06D EMERGENCY FEEDER BREAKER	CONNECTED AND OPEN	0	/
7A	0-BKR-067-000A/7A EECW HDR TRACE HTG	•	0	ALIGNED BY 0-01-67 & 82
7C	STANDBY GAS TREATMENT BLDG SUMP PUMP A		0	ALIGNED BY 0-01-40
<b>7</b> D	STANDBY GAS TREATMENT BLDG. HEATER A		0	ALIGNED BY 0-01-30F
7E	GEN. PURGING CO <sub>2</sub> VAPORIZER SUPERHEATER AND IMMERSION		0	ALIGNED BY 0-01-39
7 <b>F</b>	DIESEL GENERATOR BLDG. SUMP PUMP A	×	0	ALIGNED BY 0-01-40
8A	0-BKR-086-0669C DG C RIGHT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
8B	0-BKR-030-0069 DIESEL GENERATOR C EXH FAN B		0	ALIGNED BY 0-01-82
8C1	0-BKR-067-000A/8C1 EMERGENCY SUPPLY BREAKER FOR RHRSW & EECW TRACE HEATER	ON A	0	/



DEC 28 1995

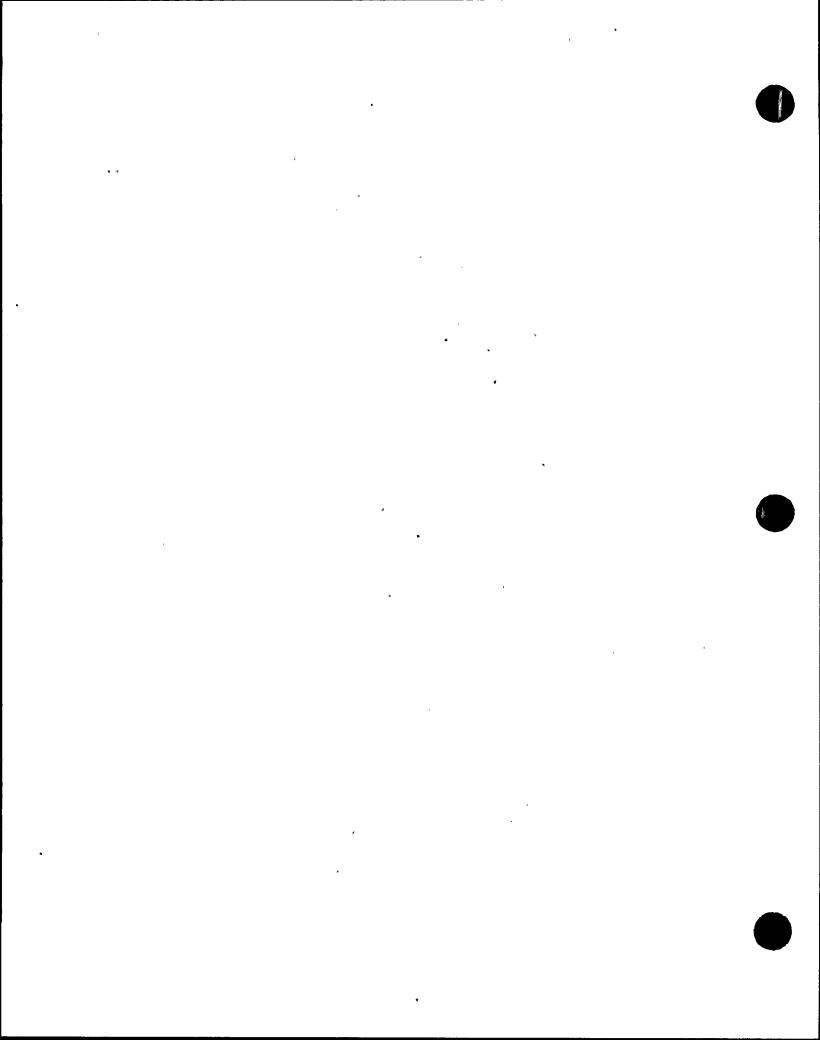
UNIT 0 0-OI-57B ATTACHMENT 3A (Page 6 of 12)

•		•	Date	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
,	U1/2 Diesel Generator 450V U1/2 Diesel Gen Bldg (0-45E732 - 1	- El 583'	d A	
8C2	PRIMARY ISOLATION BKR FEEDING COMPT. 8EL NOR FDR EVAC ALM FUSE PNL	· ON	0	/
8D	0-BKR-023-0610 RHRSW & EECW TRACE HTR A EMER	R FEED.	0	ALIGNED BY 0-01-23
8EL	0-BKR-244-000A/8EL SECONDARY BKR FEEDING NOR FDR EVAC ALM FUSE PNL FED FROM COMPT 8C2	ON	0	/
8ER	0-BKR-023-0613 RHRSW & EECW TRACE HTR D EMER	R FEED	0	ALIGNED BY
8F	0-BKR-254-0000CA DSL GEN C BAT CHGR A		0	ALIGNED BY 0-01-82
9A	0-BKR-086-0669D DG D RIGHT BANK AIR COMP MTR BKR	ı	0	ALIGNED BY 0-01-82
9B	0-BKR-030-0071 DIESEL GENERATOR D EXHAUST FAN B	,	0	ALIGNED BY 0-01-82
9c ·	0-BKR-219-000A/09C FEEDER TO 480V RADWASTE BD 1 FLOOD PROTECTION	ON	O	/
9 <b>F</b>	0-BKR-254-0000DA DSL GEN D BAT CHGR A		0	ALIGNED BY 0-01-82 0-01-57B



DEC 28 1995

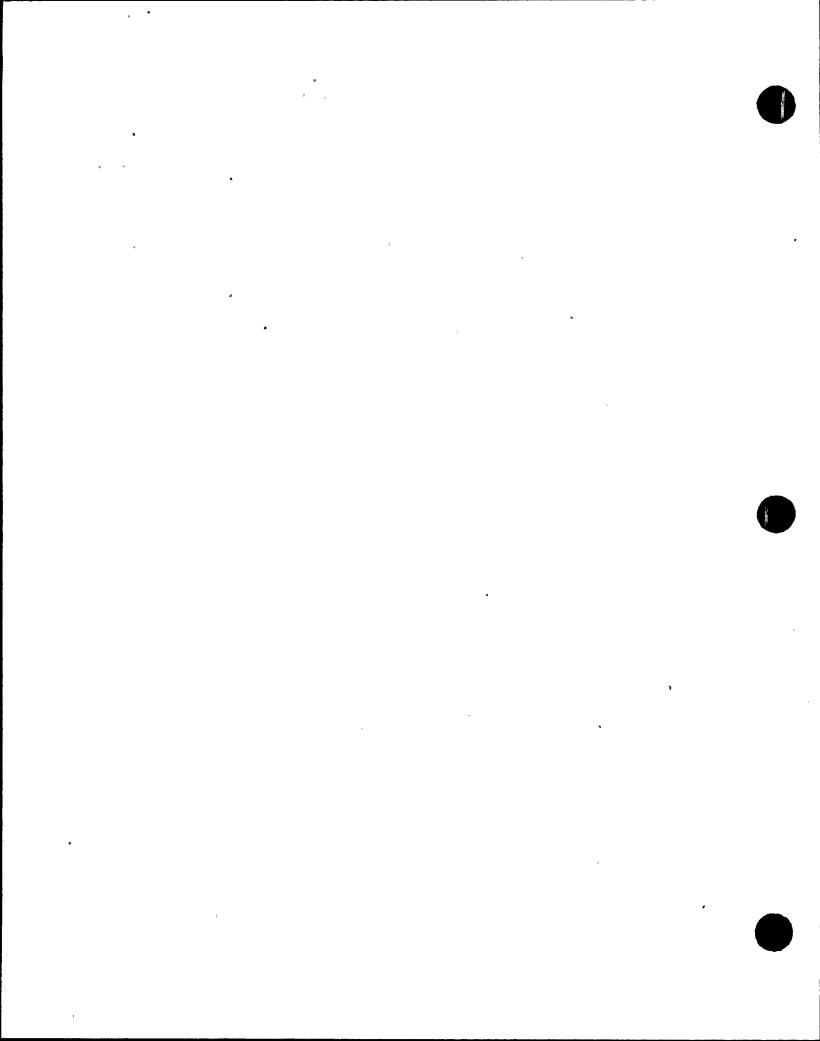
UNIT 0 0-OI-57B ATTACHMENT 3A (Page 7 of 12)



DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 8 of 12)

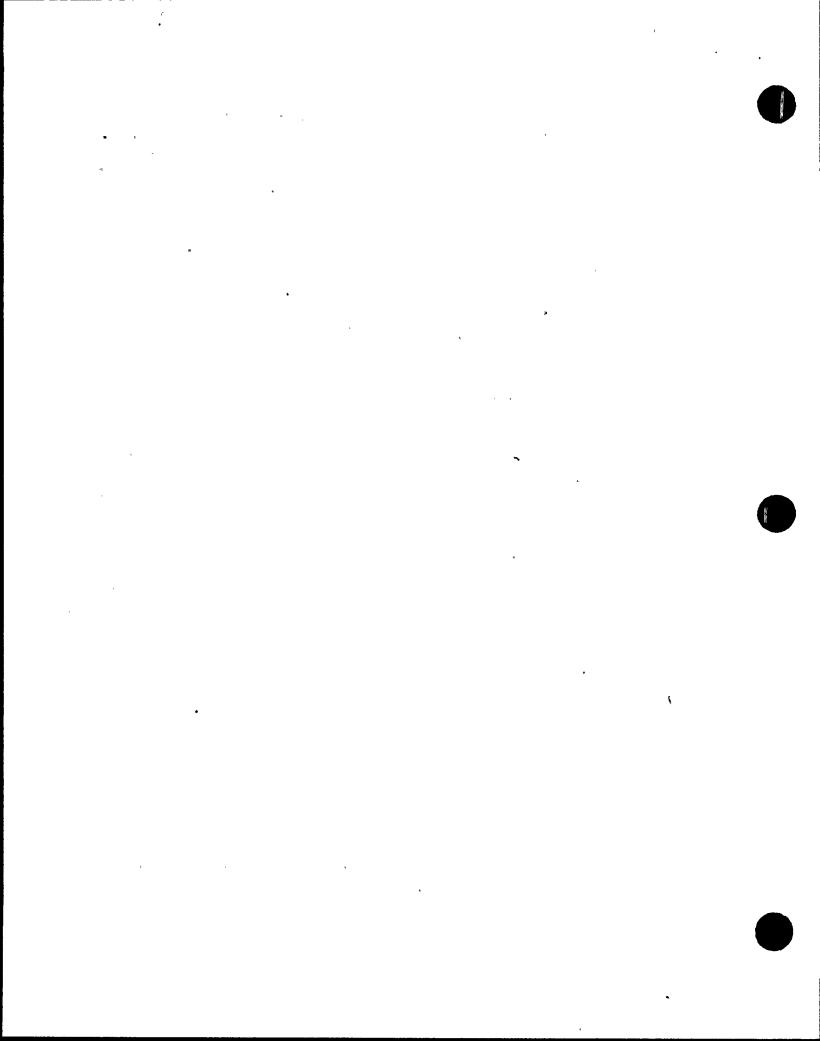
		•	Date	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	U1/2 Diesel Generator 480V A U1/2 Diesel Gen Bldg (0-45E732 - 1 &	- El 583'	d A	
10F1 .	0-BKR-067-0925A EECW STRAINER A		0	ALIGNED BY 0-01-67
10F2	0-BKR-067-0928A EECW STRAINER D		0	ALIGNED BY 0-01-67
11A	SGT - FILTER TRAIN A SYSTEM FAN		0	ALIGNED BY 0-01-65
11F	SGT-FILTER TRAIN A HUMIDITY CONTROL HEATER CIRCUIT BREAKER	₹	0	ALIGNED BY 0-01-65
12A	0-BKR-034-0012 VACUUM PRIMING PUMP B		0	ALIGNED BY 0-01-34
12C	0-BKR-067-0049 RHRSW PUMP C1 SPLY TO EECW FC	<i>J</i> -67-49	0	ALIGNED BY 0-01-67
12E	0-BKR-067-0013 EECW NORTH HDR DG/U1 DIV I SEC FCV-67-13	CT VLV	0	ALIGNED BY 0-01-67



DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 9 of 12)

		•	Date _	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	U1/2 Diesel Generator 480V Au U1/2 Diesel Gen Bldg - (0-45E732 - 3 &	· El 583'	d B	
10	0-BKR-219-000B/01D NORMAL FEEDER BREAKER FROM 4KV SHUTDOWN BD D	CLOSED	0	/
2A	STACK FILTER CUBICLE EXHAUST FAN B		0	ALIGNED BY 2-01-66
2B	STACK SAMPLING ROOM HEATER		0	ALIGNED BY 0-01-44
2C	DIESEL GEN. AUX. XFMR TDB EXHAUST FAN		0	ALIGNED BY 0-01-30F
2D	DIESEL GEN AUX XFMR TDE EXHAUST FAN		0	ALIGNED BY 0-01-30F
2E .	0-BKR-301-000B/02E SEWAGE LIFT STATION SEWAGE TREATMENT LAGOON	on .	0 .	/
2F1	0-BKR-043-0026 CCW DISCHARGE SAMPLING PUMPS UNITS 1, 2, & 3	ои	0	/
2F2	0-BKR-219-000B/2F2 POWER OUTLETS - OFF-GAS STACK DSL GEN & SGT	ои	0	/
3A .	0-BKR-086-0668D/AC DG D LEFT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
3B	DIESEL GENERATOR D BATTERY EXHAUST FAN		0	ALIGNED BY 0-01-82



DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 10 of 12)

			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U1/2 Diesel Generator 480V Au U1/2 Diesel Gen Bldg - (0-45E732 - 3 &	El 583'	d B	
3C	0-BKR-044-000B/03C DIESEL GENERATOR D ROOM HEATER		0	ALIGNED BY 0-01-82
3D	0-BKR-030-0070 DIESEL GENERATOR D EXH FAN A		0	ALIGNED BY 0-01-82
3E	0-BKR-082-0001CA DSL GEN D WATER HEATER		0	ALIGNED BY 0-01-82
3F	0-BKR-254-0000DB DSL GEN D BAT CHGR B		0	ALIGNED BY 0-01-82
4A	0-BKR-086-0668C/AC DG C LEFT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
4B	0-BKR-030-0188 DIESEL GENERATOR C BATTERY EXH FAN		0	ALIGNED BY 0-01-82
4C	0-BKR-044-000B/04C DIESEL GENERATOR C ROOM HEATER		0	ALIGNED BY 0-01-82
4D	0-BKR-030-0068 DIESEL GEN RM C EXH FAN A	*	0	ALIGNED BY 0-01-82
4E	0-BKR-082-0001DA DSL GEN C WATER HEATER		0	ALIGNED BY 0-01-82
4F	0-BKR-254-0000CB DSL GEN C BAT CHGR B	•	0	ALIGNED BY 0-01-82
5A	1-BKR-066-0031 OFF-GAS DILUTION AIR FAN 1B	ON	1 .	/
5C	OFF-GAS DILUTION AIR FAN 2B		2	ALIGNED BY 2-01-66

, . 1 • • ø E.

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 11 of 12)

#### DEC 28 1995

			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
•	U1/2 Diesel Generator 480V Au U1/2 Diesel Gen Bldg - (0-45E732 - 3 &	- El 583'	i B	
5E	3-BKR-066-0031 OG DILUTION AIR FAN 3B & FCV-66	5-32 .	3 .	ALIGNED BY 3-01-66
6D	0-BKR-219-000B/06D EMERGENCY FEEDER BREAKER FROM 480V DSL AUX BD A XFMR TDE	CONNECTED AND OPEN	0	
7A	0-BKR-067-000B/7A EECW HDR TRACE HTG	•	0	ALIGNED BY 0-01-67
7C	STANDBY GAS TREATMENT BLDG SUMP PUMP B		0	ALIGNED BY 0-01-40
7D	STANDBY GAS TRÉATMENT BLDG HEATER B	•	0	ALIGNED BY 0-01-30F
7F1	CO <sub>2</sub> STORAGE TANK . REFRIGERATION UNIT		0	ALIGNED BY 0-01-39
7F2	0-BKR-247-000B/7F2 STACK LIGHTING TRANSFORMER	ON	0	/
8A	0-BKR-086-0668B/AC DG B LEFT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
8B	0-BKR-030-0067 DIESEL GENERATOR B EXH FAN B	-	0	ALIGNED BY 0-01-82
8C	0-BKR-244-000B/08C PRIMARY ISOLATION BREAKER FEEDING COMPT 8EL	ON	0	/
8EL	0-BKR-244-000B/SEL SECONDARY BKR FEEDING ALT FDR TO EVAC ALM FUSE PNL FED FROM COMPT 8C	ОИ	0	/

DEC 28 1995

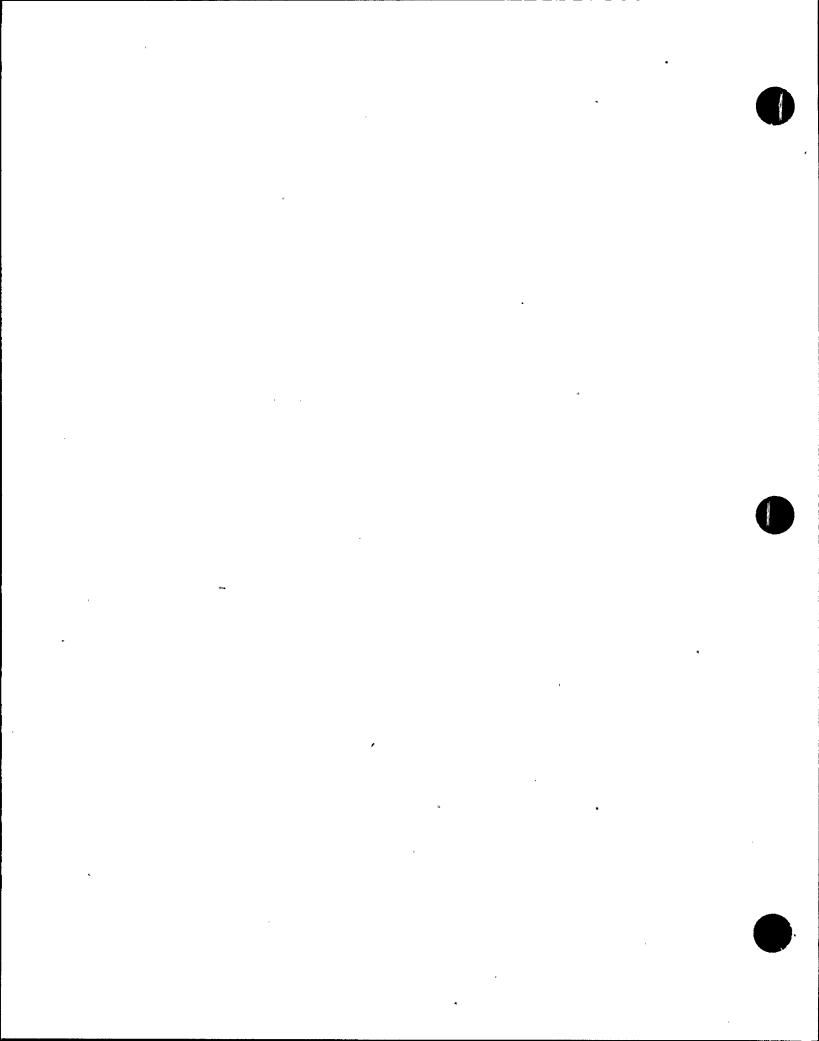
UNIT 0 0-OI-57B ATTACHMENT 3A (Page 12 of 12)

			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
-	U1/2 Diesel Generator 480V A U1/2 Diesel Gen Bldg (0-45E732 - 3 &	- El 583'	d B	
8ER	0-BKR-067-0008/8E EMERGENCY SUPPLY BREAKER FOR RHRSW & EECW TRACE HEATER B & C		0	ALIGNED BY 0-01-67
8F	0-BKR-254-0000BB DSL GEN B BAT CHGE B		0	ALIGNED BY 0-01-82
9A	0-BKR-086-0668A/AC DG A LEFT BANK AIR COMP MTR BKR		0	ALIGNED BY 0-01-82
9B	0-BKR-030-0065 DIESEL GENERATOR A EXH FAN B		0	ALIGNED BY 0-01-82
9C	0-BKR-219-000B/09C FEEDER TO RADWASTE BD 2 FLOOD PROTECTION	ON	0	/
9 <b>F</b>	0-BKR-254-0000AB DSL GEN A BAT CHGR B		0	ALIGNED BY 0-01-82
10F1 .	0-BKR-067-0926A EECW STRAINER B		0	ALIGNED BY 0-01-67
10F2	0-BKR-067-0927A EECW STRAINER C		0	ALIGNED BY 0-01-67

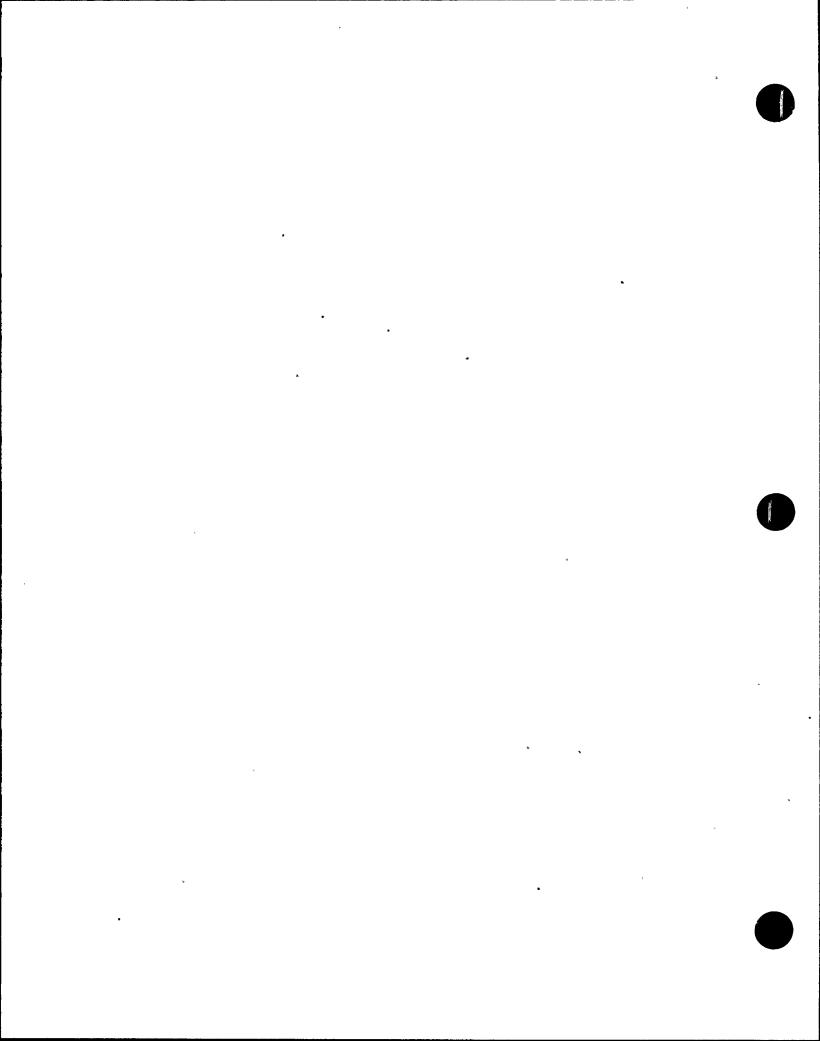
DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3A (Page 13 of 12)

		•	Date _	<u></u>
Breaker · Number	Component Description	Required Position	Unit	Initials 1st/IV
	U1/2 Diesel Generator 480V U1/2 Diesel Gen Bld (0-45E732 - 3	g - El 583'	d B	
, 11A	SGT FILTER TRAIN B SYSTEM FAN		0	ALIGNED BY 0-01-65
lif	SGT-FILTER TRAIN B HUMIDITY CONTROL NEATER CIRCUIT BREAK	ER	0	ALIGNED BY 0-01-65
12A	DIESEL GENERATOR BUILDING SUMP PUMP B		0	ALIGNED BY 0-01-40
12B	OFF-GAS STACK HOIST	ON	0	/
12C	0-BKR-067-0048 RHRSW PUMP, D1 SPLY TO EECW	FCV-67-48	0	ALIGNED BY 0-01-67
12E .	0-BKR-067-0014 EECW SOUTH HDR DG/U1 DIV I S FCV-67-14	ECT VLV	0	ALIGNED BY 0-01-67



#### UNIT 3 DIESEL AWY BOARDS



DEC 28 1995

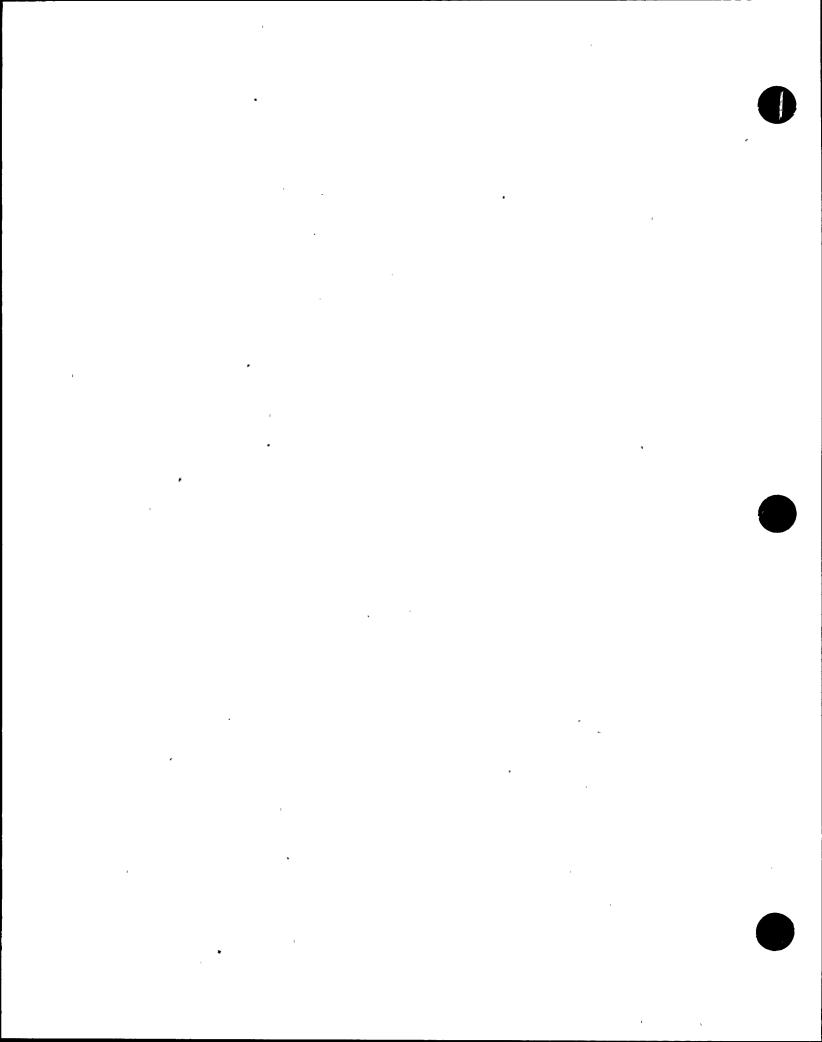
UNIT 0 0-OI-57B ATTACHMENT 3B (Page 3 of 8)

		•	Date_	
Breaker Number	. Component Description	Required Position	Unit	Initials 1st/IV
	U-3 Diesel Generator 480V Aux Unit 3 Diesel Gen Bldg - (3-45E732 - 5)	El 583.5'	3EA	
1D	3-BKR-219-03EA/01D NORMAL SUPPLY BREAKER FROM 480V SD BD 3A	CLOSED	3	/
2A	DIESEL GEN BLDG SUMP PUMP 3A		0	ALIGNED BY 0-01-40
2B1	3-BKR-082-0001AA DSL GEN 3A WATER HEATER		3	ALIGNED BY 3-01-82
2B2	REST ROOM HEATER		3	ALIGNED BY 0-01-44
2C1	3-BKR-030-0246 BAT RM 3EB EXH FAN A	•	3	ALIGNED BY 0-01-30F
2E1	3-BKR-254-0000AA DSL GEN 3A BAT CHGR A		3	ALIGNED BY 3-01-82
2E2	3-BKR-254-0000BA DSL GEN 3B BAT CHGR A		3	ALIGNED BY 3-01-82
3A	3-BKR-030-0243 DSL AUX BD 3EA RM EXH FAN		3	ALIGNED BY 0-01-30F
3B	3-BKR-030-0239 DG 3B BAT EXHAUST FAN		3	ALIGNED BY 3-01-82

DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3B (Page 4 of 8)

- ai	<b>,</b>	•	Date_	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	U-3 Diesel Generator 480V Auxi Unit 3 Diesel Gen Bldg - (3-45E732 - 5)		3EA	
3C	3-BKR-030-0238 DG 3A BAT EXHAUST FAN	4	3	ALIGNED BY 3-01-82
3D	3-BKR-067-0074A EECW HDR TRACE HTRS		3	ALIGNED BY 0-01-67
4A	3-BKR-030-0242 MISC EQUIPMENT RM EXH FAN		3	ALIGNED BY 0-01-30F
4B1	3-BKR-044-0200 DIESEL GENERATOR ROOM HEATER BKR	3A	3	ALIGNED BY 3-01-82
4B2	3-BKR-044-0201 DIESEL GENERATOR ROOM HEATER BKR	3B	3	ALIGNED BY 3-OI-82
4C1	BATTERY CHARGER SB-3EB		0	ALIGNED BY 0-01-57D
4D	3-BKR-219-03EA/4D SHUNT TRIP ON CIRCUIT CONTROL POWER	•	3	/:
5A	DIESEL GEN BLDG FUEL OIL TRANSFER PUMP		0	ALIGNED BY 0-01-18
5B1	3-BKR-082-00018A DSL GEN 3B WATER HEATER	•	3	ALIGNED BY 3-OI-82
5E	3-BKR-030-0230 DG 3A EXH FAN A		3 .	ALIGNED BY 3-01-82

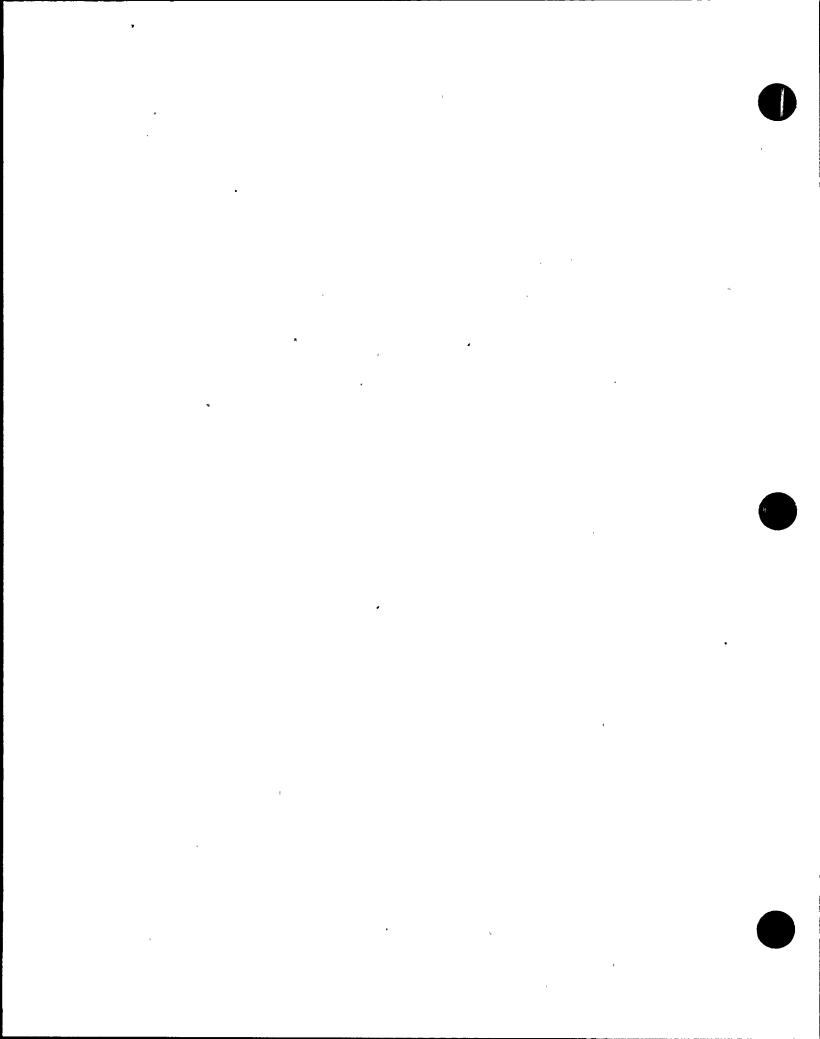


DEC 28 1995

UNIT 0 0-01-57B ATTACHMENT 3B

(Page 5 of 8)

			Date_	
Breaker Number		quired sition	Unit	Initials 1st/IV
1	U-3 Diesel Generator 480V Auxilian Unit 3 Diesel Gen Bldg - El (3-45E732 - 5)	_	3EA	
6A	3-BKR-030-0232 DIESEL GEN 3B EXH FA	N A	3	ALIGNED BY 3-01-82
6C	3-BKR-030-0235 DG 3C EXH FAN B		3	ALIGNED BY 3-01-82
6E	3-BKR-030-0237 DG 3D EXH FAN B		3	ALIGNED BY 3-01-82
7A	3-BKR-086-0669A DG 3A LEFT BANK AIR COMP MTR BKR		3 `	ALIGNED BY 3-01-82
7B ·	3-BKR-086-0669B DG 3B LEFT BANK AIR COMP MTR BKR		3	ALIGNED BY 3-01-82
7C	3-BKR-086-0669C DG 3C LEFT BANK AIR COMP MTR BKR		3	ALIGNED BY 3-01-82
7D	3-BKR-086-0669D DG 3D LEFT BANK AIR COMP MTR BKR		3	ALIGNED BY 3-OI-82
7E1	3-BKR-254-0000CA DSL GEN 3C BAT CHGR A	•	3	ALIGNED BY 3-OI-82
7E2	3-BKR-254-0000DA DSL GEN 3D BAT CHGR A		3	ALIGNED BY
8D .		NNECTED D OPEN	3	/



DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3B (Page 6 of 8)

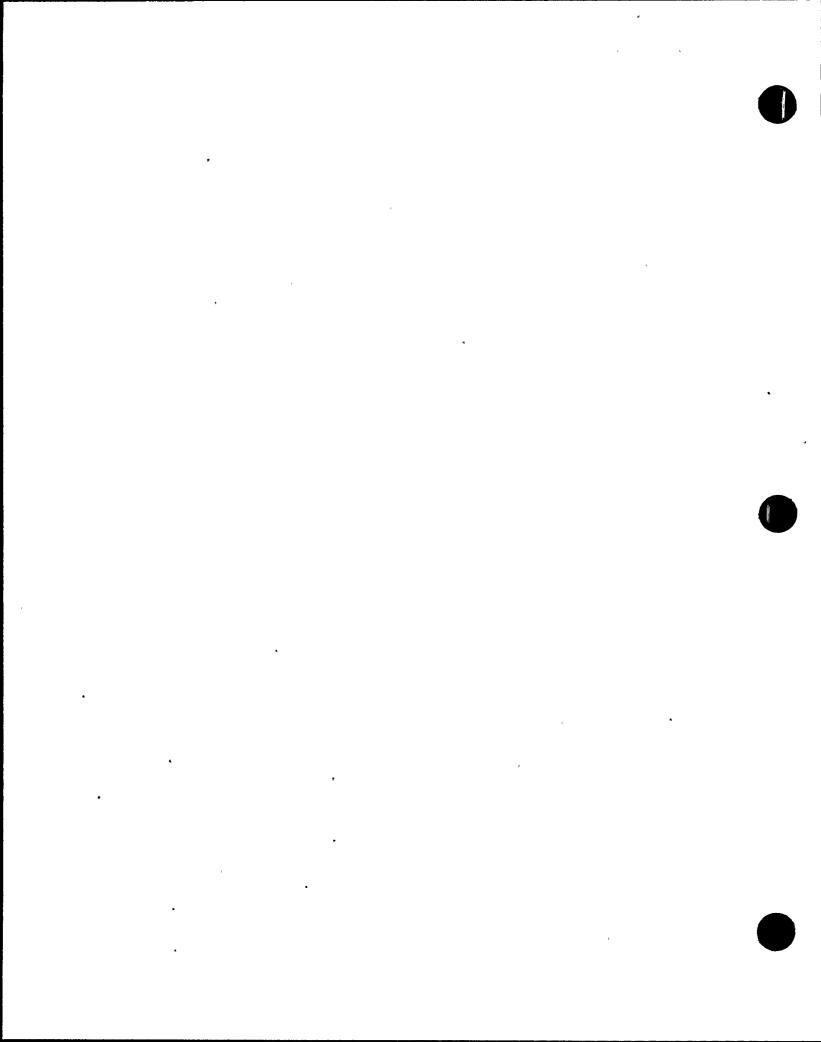
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Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U-3 Diesel Generator 480V Aux Unit 3 Diesel Gen Bldg (3-45E732 - 6	- El 583.5'		
1D	3-BKR-219-03EB/01D NORMAL SUPPLY BREAKER FROM 480V SD BD 3B	CLOSED	3	/
2A	DIESEL GENERATOR BLDG SUMP PUMP 3B		0	ALIGNED BY 0-01-40
2B	3-BKR-082-0001CA DSL GEN 3C WATER HEATER		3	ALIGNED BY 3-OI-82
2C1	DIESEL AUXILIARY BOARD 3EA ROOM HEATER		0	ALIGNED BY 0-OI-30F
2E1	3-BKR-254-0000BB DSL GEN 3B BAT CHGR B		3	ALIGNED BY 3-OI-82
2E2	3-BKR-254-0000AB DSL GEN 3A BAT CHGR B		3	ALIGNED BY 3-OI-82
3A	3-BKR-030-0244 DSL AUX BD 3EB F EXH FAN	₹М '	<b>3</b>	ALIGNED BY 0-OI-30F
3B	3-BKR-030-0241 DG 3D BAT EXHAUST FAN		3	ALIGNED BY 3-OI-82
3C	3-BKR-030-0240 DG 3C BAT EXHAUST FAN	n.	3	ALIGNED BY 3-OI-82
3D	3-BKR-067-0074C EECW HDR TRACE HTRS		3	ALIGNED BY 0-01-67
4B1	3-BKR-044-0202 DIESEL GENERATOR ROOM HEATER BKR	R 3D	3	ALIGNED BY 3-01-82

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DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3B (Page 7 of 8)

			Date_	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	U-3 Diesel Generator 480V Auxi Unit 3 Diesel Gen Bldg - (3-45E732 - 6)	liary Board El 583.5'	3EB	
4B2	3-BKR-044-0203 DIESEL GENERATOR 3C ROOM HEATER BKR	***	3	ALIGNED BY 3-01-82
4C1	3-BKR-039-0034 CO <sub>2</sub> STORAGE TANK REFRIG UNIT		0	ALIGNED BY 0-01-39
4D	3-BKR-219-03EB/4D SHUNT TRIP CIRCUIT CONTROL POWER	ои	3	/
5B1	3-BKR-082-0001DA DSL GEN 3D WATER HEATER		3	ALIGNED BY 3-01-82
5C	3-BKR-030-0247 BAT RM 3EB EXH FAN B		3	ALIGNED BY 0-01-30F
5E	3-BKR-030-0236 DG 3D EXH FAN A		3	ALIGNED BY 3-01-82
6A	3-BKR-030-0234 DG 3C EXH FAN A		<b>'3</b>	ALIGNED BY 3-01-82
6C .	3-BKR-030-0233 DG 3B EXH FAN B		3	ALIGNED BY 3-01-82
6E	3-BKR-030-0231 DG 3A EXH FAN B		3 `	ALIGNED BY 3-01-82
7A .	3-BKR-086-0668B/AC DG 3B RIGHT BANK AIR COMP MTR BKR	ħ	3	ALIGNED BY 3-01-82
7B	3-BKR-086-0668C/AC DG 3C RIGHT BANK AIR COMP MTR BKR		3	ALIGNED BY- 3-01-82
7C	3-BKR-086-0668D/AC DG 3D RIGHT BANK AIR COMP MTR BKR		3	ALIGNED BY 3-01-82

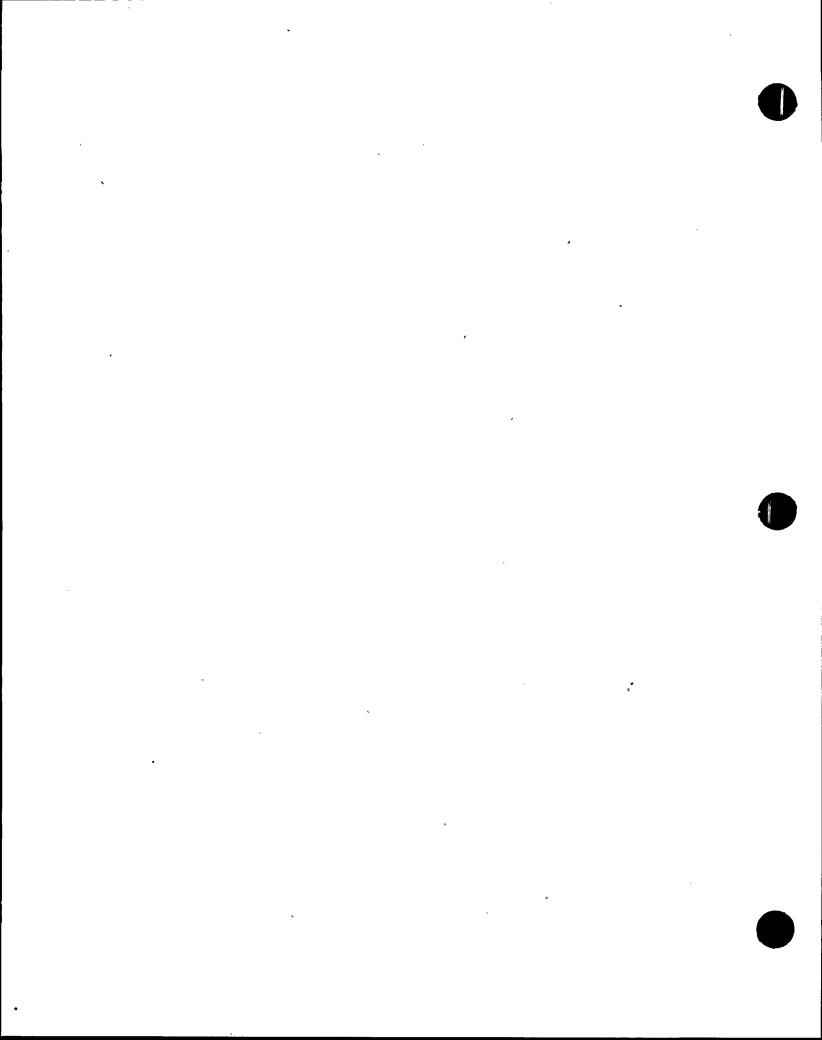


DEC 28 1995

UNIT 0 0-OI-57B ATTACHMENT 3B (Page 8 of 8)

,		•	Date_	*
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
110, 1112	U-3 Diesel Generator 480V Unit 3 Diesel Gen Bl (3-45E732	ldg - El 583.5'	d 3EB	
7D	3-BKR-086-0668A/AC DG 3A RIGHT BANK AIR COMP MTR BKR	-	3	ALIGNED BY 3-01-82
7E1	3-BKR-254-0000DB DSL GEN 3D BAT CHGR B		3	ALIGNED BY 3-01-82
7E2	3-BKR-254-0000CB DSL GEN 3C BAT CHGR B		3	ALIGNED BY 3-01-82
7 <b>F</b>	3-BKR-219-03EB/07F U3 DIESEL GENERATOR BLDG PO RECEPTICALS	ON . WER	3	/
8D	3-BKR-219-03EB/08D ALTERNATE SUPPLY BREAKER FROM 480V SD BD 3A	CONNECTED AND OPEN	3	/

#### UNIT 1 480 V AC BOARDS



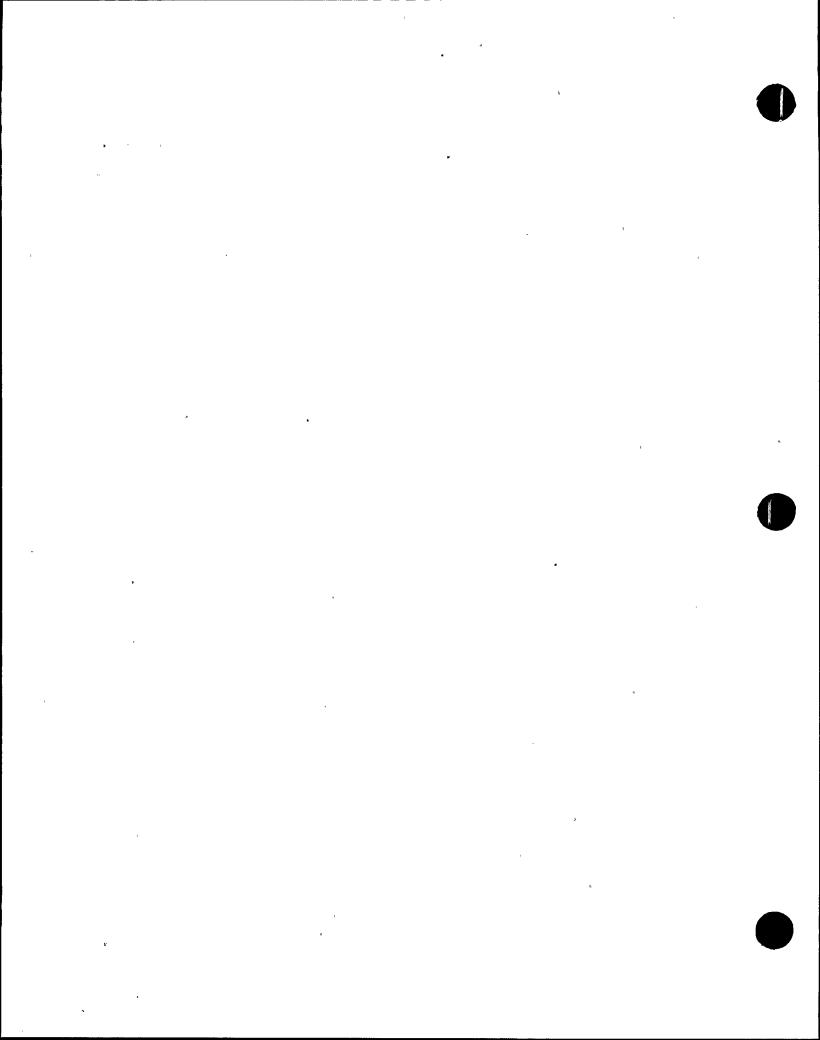
UNIT 0 0-0I-57B

#### NOV 08 1995

ATTACHMENT 3D (Page 3 of 25)

	· · · · · · · · · · · · · · · · · · ·	<u>-</u>	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Shutdown Control Bay - Div I - Electri (1-45E749	cal Board Ro	om 1A, E	L 621'
1C	NORMAL FEEDER BREAKER FROM XFMR TS1A	CLOSED	0	
2A	CONTROL BAY WATER CHILLER A		0	ALIGNED BY 0-01-31
2B	NORMAL FEEDER BREAKER FOR CONTROL BAY VENT BOARD A	CLOSED	0	/
2C	DRYWELL BLOWER 1A-1		1 '	ALIGNED BY 1-01-70
2D	DRYWELL BLOWER 1B-1		1	(2) <sub>ALIGNED</sub> BY 1-01-70
3A .	NORMAL FEEDER 480V REACTOR MOV BD 1A	CLOSED`	0	/
3B	EMERGENCY FEEDER 480V REACTOR MOV BOARD 1B	CLOSED	0	/
3C	EMERGENCY FEEDER 480V REACTOR MOV BOARD 1C	CLOSED	0	/
3D	INSTRUMENT AND CONTROL BUS A TRANSFORMER TICIA	CLOSED	0	/
5A	CONTROL AND SERVICE AIR COMPRESSOR A		0	ALIGNED BY 0-01-32
5B	MG SET 1DN NORMAL FEEDER FOR 480V REACTOR MOV BOARD 1D	CLOSED/ CONNECTED(	1 1)	

- (1) Closed if MG set in service, circle position selected.(2) This breaker shall remain OPEN per DCN T37517A.

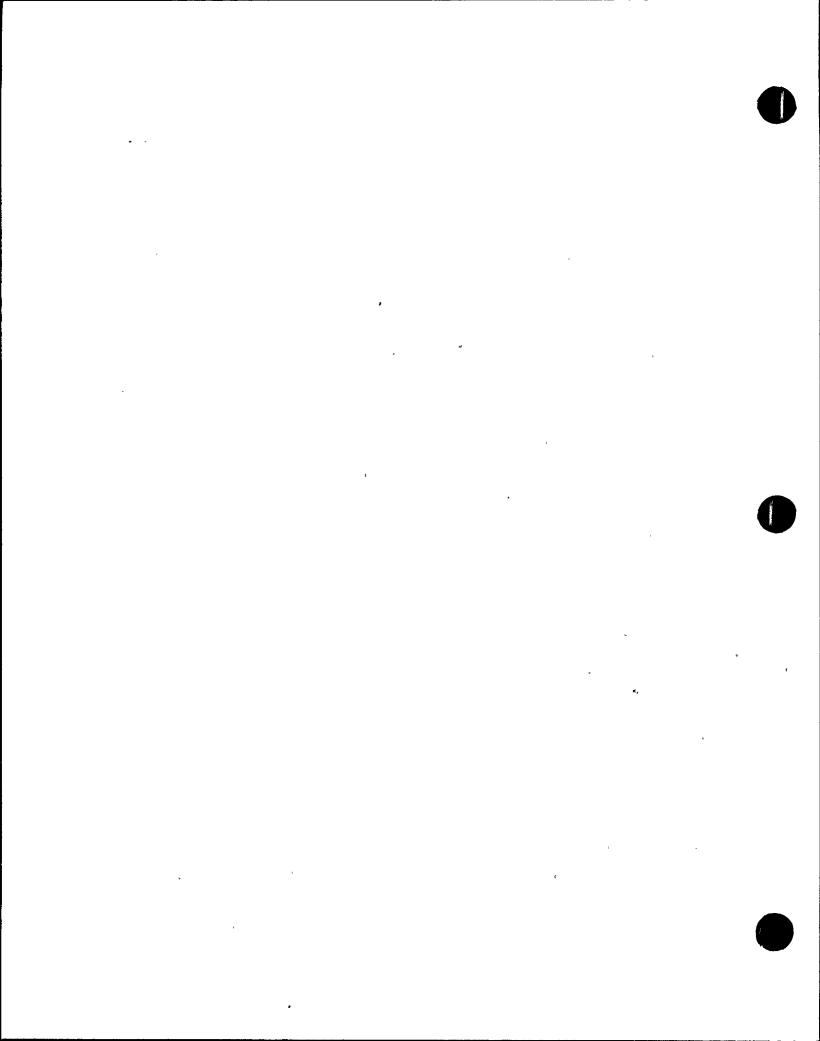


UNIT 0 0-01-57B

#### NOV 08 1995

ATTACHMENT 3D (Page 4 of 25)

		•	•	Date
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown Control Bay - Div I - Electric (1-45E749	al Board Roo	m 1A, E	21 621'
5C	RECIRCULATION MG SET OIL PUMP 1A-1		1	ALIGNED BY OI-68
5D	RECIRCULATION MG SET OIL PUMP 1B-1	•	1	ALIGNED BY OI-68
6A	MG SET 1EA EMERGENCY FEEDER FOR 480V REACTOR MOV BD 1E	CLOSED/ CONNECTED(1)	1	/
6B	CLOSED COOLING WATER PUMP 1A		1	ALIGNED BY 1-01-70
6C	REACTOR WATER CLEANUP RECIRC PUMP 1A		į	ALIGNED BY 1-01-69
6D	1-BKR-248-0001A/6D 250V BATTERY CHARGER 1		0	ALIGNED BY 0-01-57D
7B	STANDBY LIQUID CONTROL PUMP 1A		1	ALIGNED BY 1-01-63
7 <b>c</b>	FUEL POOL COOLING PUMP 1A		1	ALIGNED BY 1-01-78
7D	UNIT PREFERRED MG SET 1	CLOSED	1	/
8C	EMERGENCY FEEDER BREAKER FROM XFMR TS1E	CONNECTED AND OPEN	0	/



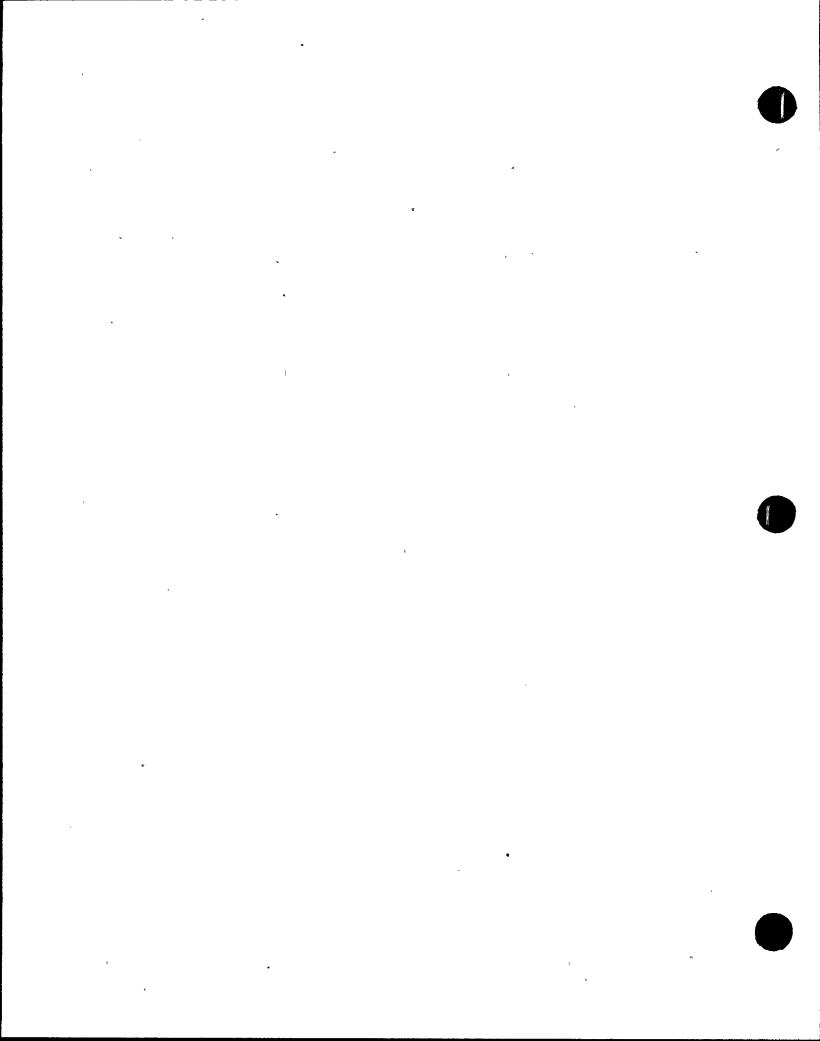
UNIT 0 0-01-57B

ATTACHMENT 3D (Page 5 of 25)

#### NOV 08 1995

	·	Date			
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV	
	480V Shutdown Control Bay - Div II - Electri (1-45E749	cal Board Room	n 1B, El	621'	
1C	NORMAL FEEDER BREAKER FROM XFMR TS1B	CLOSED	0	/	
2B	EMERGENCY FEEDER 480V	CLOSED	1	/	
2C	CONDENSATE DEMINERALIZER BOARD 1 DRYWELL BLOWER 1A-2	•	1	(2) <sub>ALIGNED</sub> BY 1-01-70	
2D	DRYWELL BLOWER 1B-2		1	(2) <sub>ALIGNED</sub> BY 1-01-70	
3A	EMERGENCY FEEDER 480V REACTOR MOV BOARD 1A	CLOSED	0		
3B	NORMAL FEEDER 480V REACTOR MOV BOARD 1B	CLOSED	0	/	
3C	NORMAL FEEDER 480V REACTOR MOV BOARD 1C	CLOSED	0	/	
3D	INSTRUMENT AND CONTROL BUS B TRANSFORMER T1C1B UNIT PREFERRED TRANSFORMER TUP1	CLOSED	0	/	
5A	MG SET 1DA EMERGENCY FEEDER FOR 480V REACTOR MOV'BD 1D	CLOSED/ CONNECTED(1)	1	/	

- (1) Closed if MG set in service, circle position selected.
- (2) This breaker shall remain OPEN per DCN T37517A.



UNIT 0 0-01-57B

ATTACHMENT 3D (Page 6 of 25)

#### NOV 08 1995

	UNII	,		Date
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	. 480V Shutdown Control Bay - Div II - Electri (1-45E749	cal Board Roo	om 1B,	El 621'
5C	RECIRCULATION MG SET OIL PUMP 1A-2		1	ALIGNED BY OI-68
5D	RECIRCULATION MG SET OIL PUMP 1B-2		1	ALIGNED BY OI-68
5A	CLOSED COOLING WATER PUMP 1C		0	ALIGNED BY 2-01-70
5B	CLOSED COOLING WATER PUMP 1B		1	ALIGNED BY 1-01-70
	REACTOR WATER CLEANUP RECIRC PUMP 1B		1	ALIGNED BY 1-01-69
5D .	MG SET 1EN NORMAL FEEDER FOR 480V REACTOR MOV BD 1E	CLOSED/ CONNECTED(1)	1	/
<b>/A</b>	1-BKR-047-0011 TURNING GEAR OIL PUMP	• -	1	ALIGNED BY OI-47B
1B	STANDBY LIQUID CONTROL PUMP 1B		1	ALIGNED BY 1-01-63
7 <b>C</b>	FUEL POOL COOLING PUMP 1B		1	ALIGNED BY 1-01-78
8C	EMERGENCY FEEDER BREAKER FROM XFMR TS1E	CONNECTED AND OPEN	0	/
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UNIT 0 0-OI-57B ATTACHMENT 3D (Page 7 of 25)

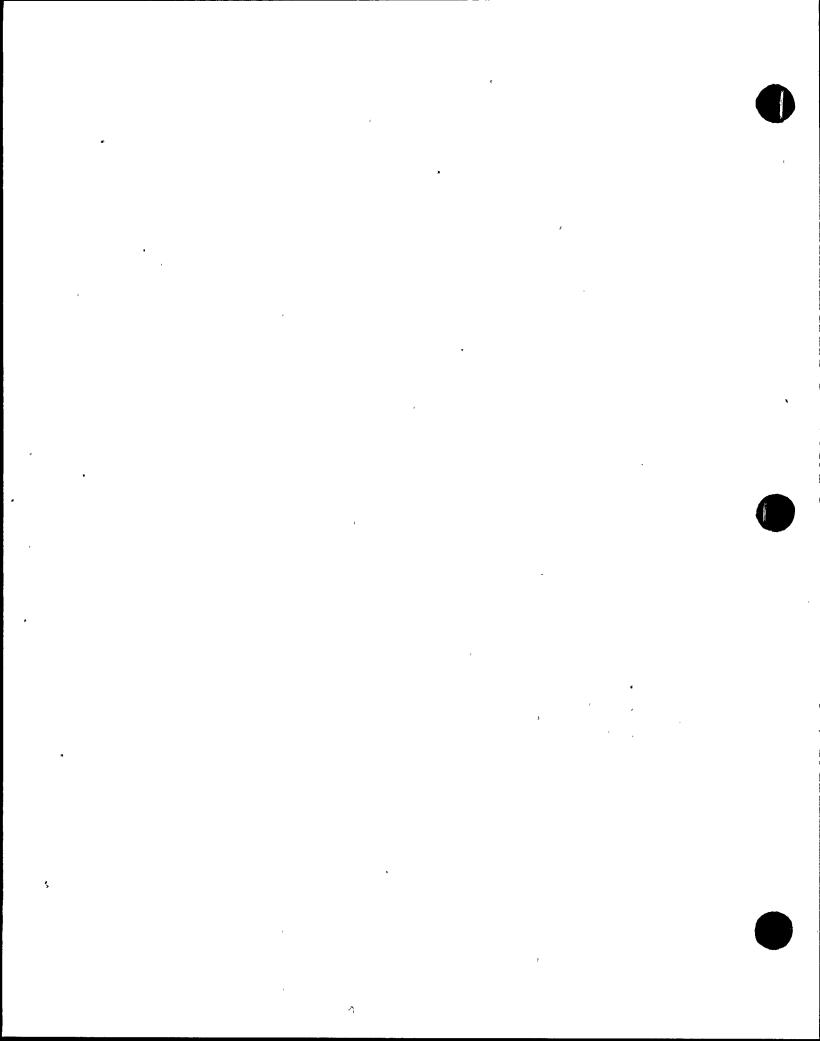
#### NOV 08 1995

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Breaker Number	Component Description	Required Position		Initials lst/IV	
• *	480V Reactor MOV Control Bay - Electric Board F (1-45E751 -1	Room 1A -		R-1R	
1A	SHUTDOWN BOARD ROOMS EXHAUST FAN 1A		0	ALIGNED BY 0-01-31	
1B1	PRIMARY ISOLATION BKR FEEDING COMPT 7A TO XFR SW ALT FDR FOR SCBA AIR COMP	ON	0	/	
1B2	PRIMARY ISOLATION BKR FEEDING COMPT 2B TURB BLDG EMER LTG XFMR	ON	0	/	
1D	TURBINE BEARING LIFT PUMPS ASSEMBLY A		1	ALIGNED BY OI-47B	
2B	SECONDARY BKR FEEDING TURB BLDG EMER LTG XFMR FED FROM COMPT 1B2	ON .	0	/	
2C .	RHR OUTBOARD VALVE FCV-74-52	•	1 .	ALIGNED BY 1-01-74	
3D	NORMAL SUPPLY BREAKER 52-N	CLOSED	0	/	
4A	RHR PUMP 1A COOLER FAN		. 1	ALIGNED BY 1-01-74	
4B	RHR PUMP 1A SUCTION VALVE FCV-74-1	-	1	ALIGNED BY 1-01-74	
4D	RHR HEAT EXCHANGER A SERV WATER DISCHARGE VALVE FCV-23-34		• 1	ALIGNED BY 0-01-23	
4E	SPARE				

NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 8 of 25)

		•	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Control Bay - Electric Board (1-45E751 -	Room 1A - E	1 621',	R-1R
5A	DRYWELL EQUIPMENT DRAIN SUMP PUMP 1A		1	ALIGNED BY 0-OI-77A
5B	RHR PUMP 1C SUCTION VALVE FCV-74-12		`1	ALIGNED BY 1-01-74
5D	RHR HEAT EXCHANGER C SERV WATER DISCHARGE VALVE FCV-23-40		1	ALIGNED BY 0-01-23
5E	SPARE			
6A	CORE SPRAY NW ROOM COOLER FAN		1	ALIGNED BY OI-75
6B .	RHR CONTAINMENT SPRAY VALVE FCV-74-60		1	ALIGNED BY 1-01-74
6C	RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-2		1	ALIGNED BY 1-01-74
6E	RHR DISCHARGE TO MAIN CONDENSER VALVE FCV-74-62		1	ALIGNED BY 1-01-74
7A	SECONDARY BKR FEEDING XFR SW ALT FDR FOR SCBA AIR COMP FED FROM COMPT 1B1	ON .	0	/
7B	RHR CONTAINMENT SPRAY VALVE FCV-74-61		1	ALIGNED BY 1-01-74
7C	RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-13	•	1	ALIGNED BY 1-01-74
7E	RHR SYSTEM 1 FLUSH VALVE FCV-74-104		1	ALIGNED BY 1-01-74



VALVE FCV-75-2

NOV 08 1995

UNIT 0 0-0I-57B ATTACHMENT 3D (Page 9 of 25)

#### 480V/240V AC ELECTRICAL SYSTEM UNIT-1 480V SHUTDOWN BOARDS AND REACTOR MOV BOARDS ELECTRICAL LINEUP CHECKLIST

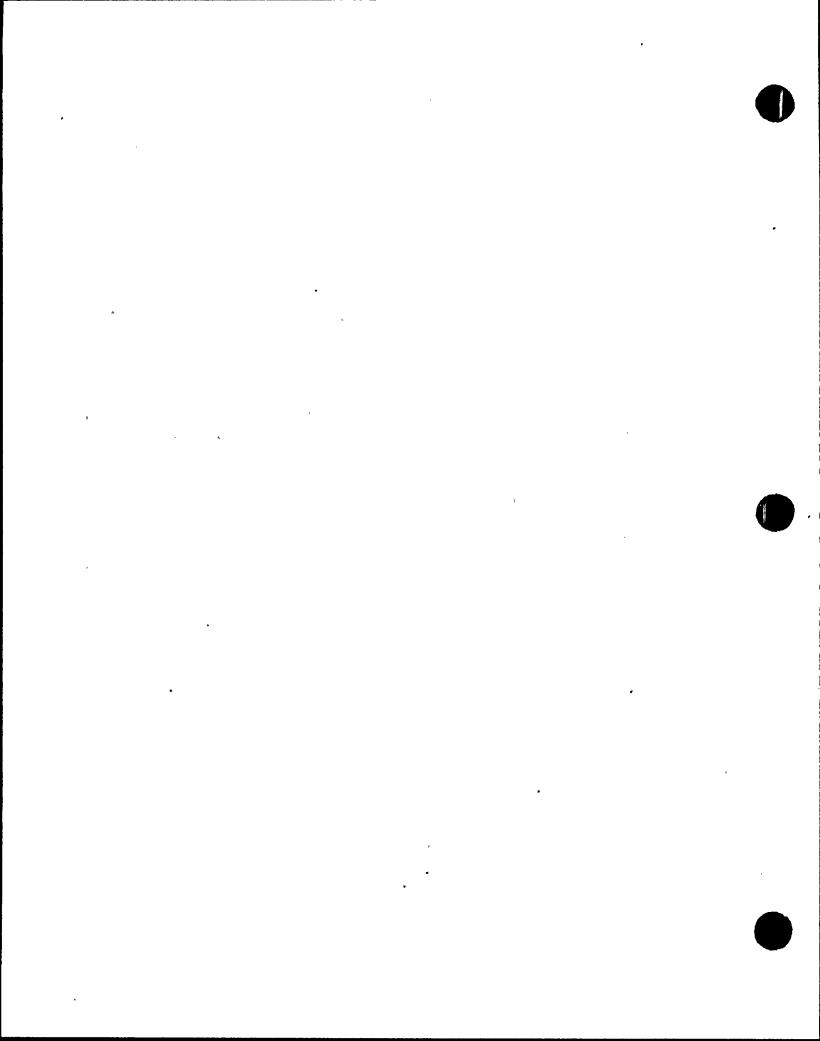
	UNIT 1	•		
-		•	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Reactor MO Control Bay - Electric Board (1-45E751 -	Room 1A -	El 621',	R-1R
8A	SPARE		-	
8B	DRYWELL FLOOR DRAIN SUMP . PUMP 1A		1	ALIGNED BY 0-01-77B
8C	RHR SHUTDOWN COOLING SUCTION ISOLATION VALVE FCV-74-48		1	ALIGNED BY 1-01-74
8E	PIGGY BACK MOTOR MAIN TURB TURNING GEAR	,	1	ALIGNED BY OI-47
9A	1-BKR-031-7205 SHUTDOWN BOARD R ACU/1A	OOM	0	ALIGNED BY 0-01-31
9B1	PRIMARY CONTAINMENT PURGE AIR FILTER		1	ALIGNED BY OI-64
9B2	FUEL POOL FILTER DEMIN OUTBOARD ISOLATION VALVE FCV-78-64		1	ALIGNED BY 1-01-78
9D	FUEL POOL FILTER DEMIN BYPASS VALVE FCV-78-65		1	ALIGNED BY 1-01-78
9E	FUEL POOL FILTER DEMIN OUTBOARD ISOLATION VALVE FCV-75-67		1	ALIGNED BY 1-01-78
10A	MAIN TURBINE TURNING GEAR TGM		1	ALIGNED BY OI-47
11A	SECONDARY BREAKER FEEDING RWCU HOLDING PUMP 1A FED FROM COMPT		1	ALIGNED BY 1-01-69
11B	CORE SPRAY PUMP 1A SUCTION		1	ALIGNED BY

OI-75

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 10 of 25)

#### NOV 08 1995

	•	•	Da	te
Breaker Number	Component Description	Required Position	Unit .	Initials 1st/IV
	480V Reactor MO Control Bay - Electric Board (1-45E751 -	Room 1A -		-1R
11C	0-BKR-023-0081A RHRSW COMPT A SUMP PUMP A		0	ALIGNED BY 1-01-23
11D	0-BKR-023-0083A RHRSW COMPT C * SUMP PUMP A		0	ALIGNED BY 1-01-23
11E	RHR PRESSURE SUPPRESSION CHAMBE ISOLATION VALVE FCV-74-57	R	1	ALIGNED BY 1-01-74
12A	STANDBY LIQUID CONTROL TRACE HEATING NORMAL CKT & PUMP 1A MOTOR HEATER		1	ALIGNED BY 1-01-63
12B	CORE SPRAY PUMP 1C SUCTION VALVE FCV-75-11		1	ALIGNED BY OI-75
12C	0-BKR-067-0017 EECW NORTH HDR SECT VLV FCV-67-	17	0	ALIGNED BY 0-01-67
12E	RHR PRESSURE SUPPRESSION CHAMBER SPRAY VALVE FCV-74-58		1 ,	ALIGNED BY 1-01-74
13A	PRIMARY ISOLATION BKR FEEDING COMPT 18C RPS MG SET 1A		1	ALIGNED BY 1-01-99
13B	CORE SPRAY OUTBOARD VALVE FCV-75-23		1	ALIGNED BY OI-75
13C	DRYWELL CONTROL AIR COMPRESSOR .1A & DRYER 1A		1	ALIGNED BY 1-01-32A

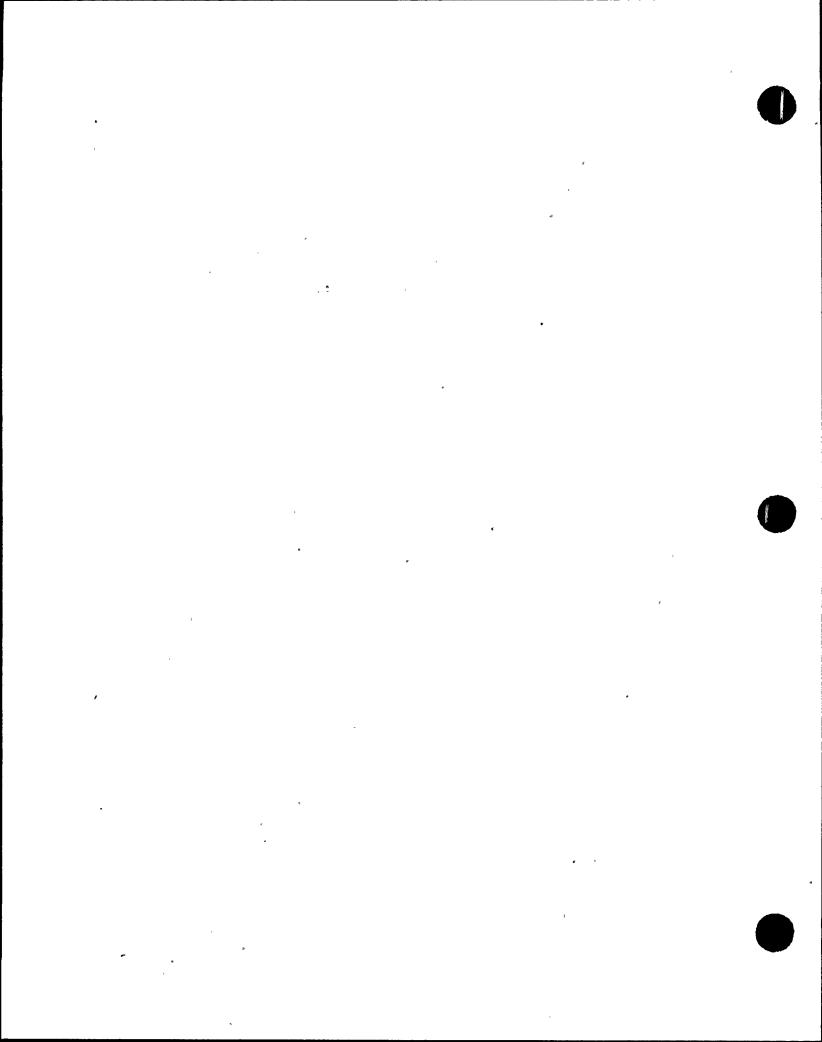


NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 11 of 25)

Date

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Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor Mo Control Bay - Electric Board (1-45E751 -	Room 1A - 1	El 621',	R-1R
13D	PRIMARY ISOLATION BKR FEEDING COMPT 11A RWCU DEMIN HOLDING PUMP 1A		1 .	ALIGNED BY 1-01-69
13E	FUEL POOL MAKEUP FROM RHR OUTBOARD VALVE FCV-78-62		1	ALIGNED BY 1-01-78
.4A	RHR PUMP 1C COOLER FAN		1	ALIGNED BY 1-01-74
.4B	CORE SPRAY INBOARD VALVE FCV-75-25		1	ALIGNED BY OI-75
.4C	0-BKR-031-7214 CREVS FILTRATION UNIT A	7	1	ALIGNED BY 0-01-31
.4D	AUXILIARY PRESSURIZATION FAN A		1	ALIGNED BY 0-01-31
.4E	CORE SPRAY SYSTEM 1 MIN FLOW BYPASS VALVE FCV-75-9		1	ALIGNED BY OI-75
.5D	EMERGENCY SUPPLY BREAKER 52-E	CONNECTED AND OPEN	.0	/
.6A	CORE SPRAY TEST VALVE FCV-75-22		1	ALIGNED BY OI-75
.6B	REACTOR BUILDING EMERG LIGHTING TRANS	ON	1 '	/
.6C1	BATTERY CHARGER SB-A		0	ALIGNED BY 0-01-57D
L6E	REACTOR WATER CLEAN-UP SYSTEM ISOLATION VALVE FCV-69-1		1	ALIGNED BY 1-01-69



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 12 of 25)

	Date				
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV	
480V Reactor MOV Board 1A  Control Bay - Electric Board Room 1A - El 621', R-1R  (1-45E751 - 1 & 2)					
17A	DRYWELL BLOWER 1A-3		1	ALIGNED BY	
17C	MAIN STEAM LINE DRAIN VALVE FCV-1-55		í	ALIGNED BY OI-1	
17E	HPCI STEAM SUPPLY LINE ISOLATION VALVE FCV-73-2		1	ALIGNED BY OI-73	
18A	DRYWELL BLOWER 1B-3		1	ALIGNED BY 1-01-70	
18C	SECONDARY BKR FEEDING RPS MG SET 1A FED FROM COMPT		1	ALIGNED BY 1-01-99	
18E .	RAW SERVICE WATER HEAD TAISOLATION VALVE FCV-25-70		0	ALIGNED BY 0-OI-25	

NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 13 of 25)

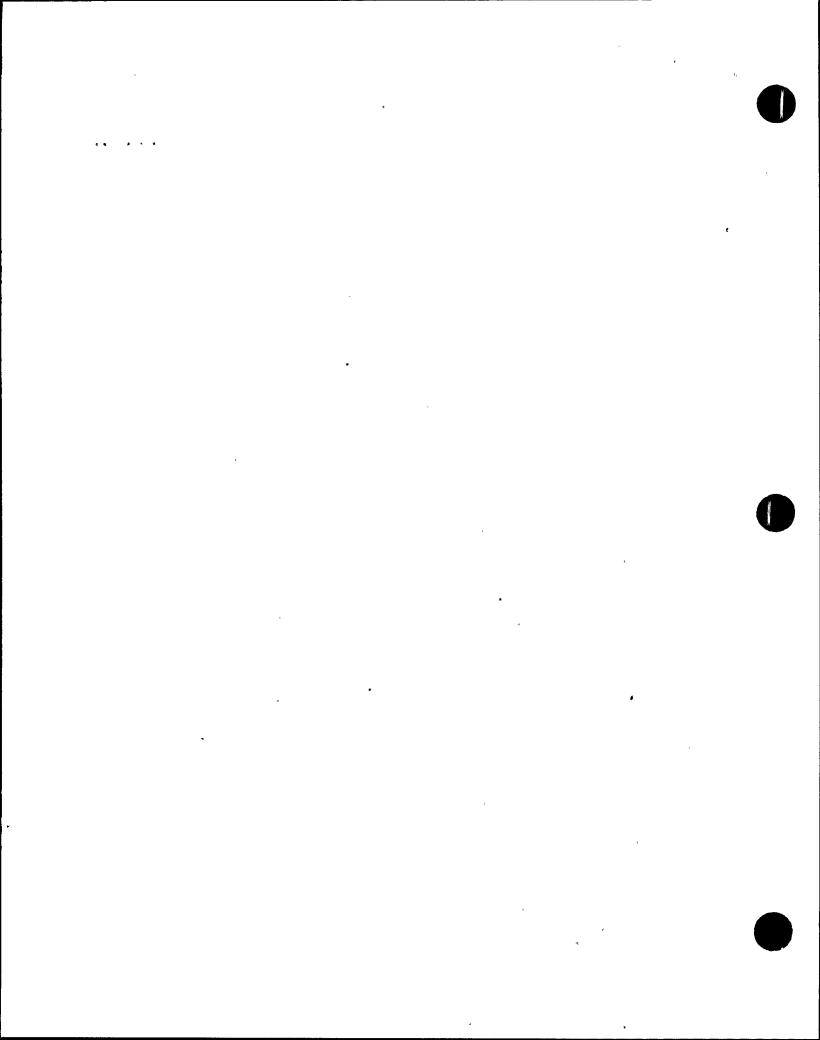
#### 480V/240V AC ELECTRICAL SYSTEM UNIT 1 480V SHUTDOWN BOARDS AND REACTOR MOV BOARDS ELECTRICAL LINEUP CHECKLIST UNIT 1

Date Breaker Component Required Initials Position Unit Number Description 1st/IV 480V Reactor MOV Board 1A Control Bay - Electric Board Room 1A - El 621', R-1R (1-45E751 - 1 & 2)(2) ALIGNED BY DRYWELL BLOWER 1B-3 18A 1 1-01-70 R9A 250V SHUTDOWN BD BATTERY ALIGNED BY ROOM EXHAUST FAN 1A 0-OI-31 R9B 250V SHUTDOWN BD BATTERY 0 ALIGNED BY ROOM SUPPLY FAN 1A 0-01-31 250V SHUTDOWN BD BATTERY ALIGNED BY R9D1 ROOM DUCT HEATER 0-OI-31 R9D2 RCIC/HPCI TURBINE EXHAUST ALIGNED BY VACUUM RELIEF VALVE FCV-71-59 1-OI-71 R10F PRIMARY CONTAINMENT ATMOSPHERIC . MON SYS ANALYZER SAMPLE RETURN 1 ALIGNED BY

PUMP

OI-76

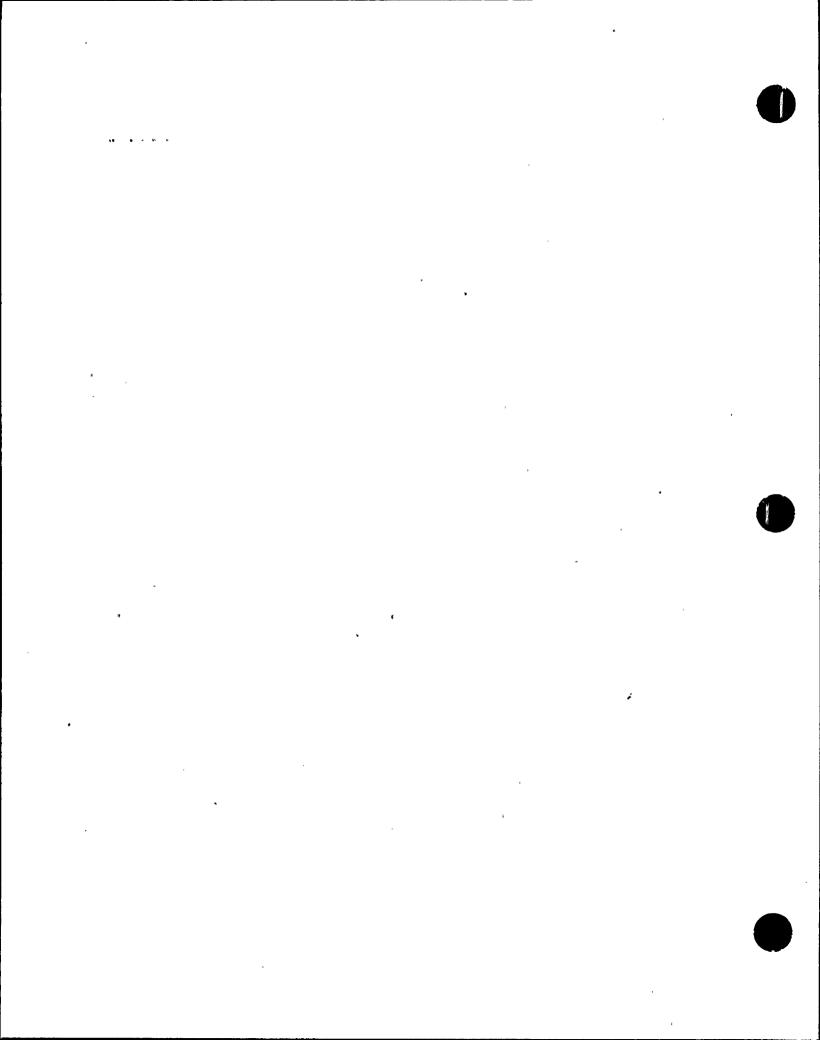
<sup>(2)</sup> This breaker shall remain OPEN per DCN T37517A.



UNIT 0 0-OI-57B ATTACHMENT 3D (Page 14 of 25)

#### NOV 08 1995

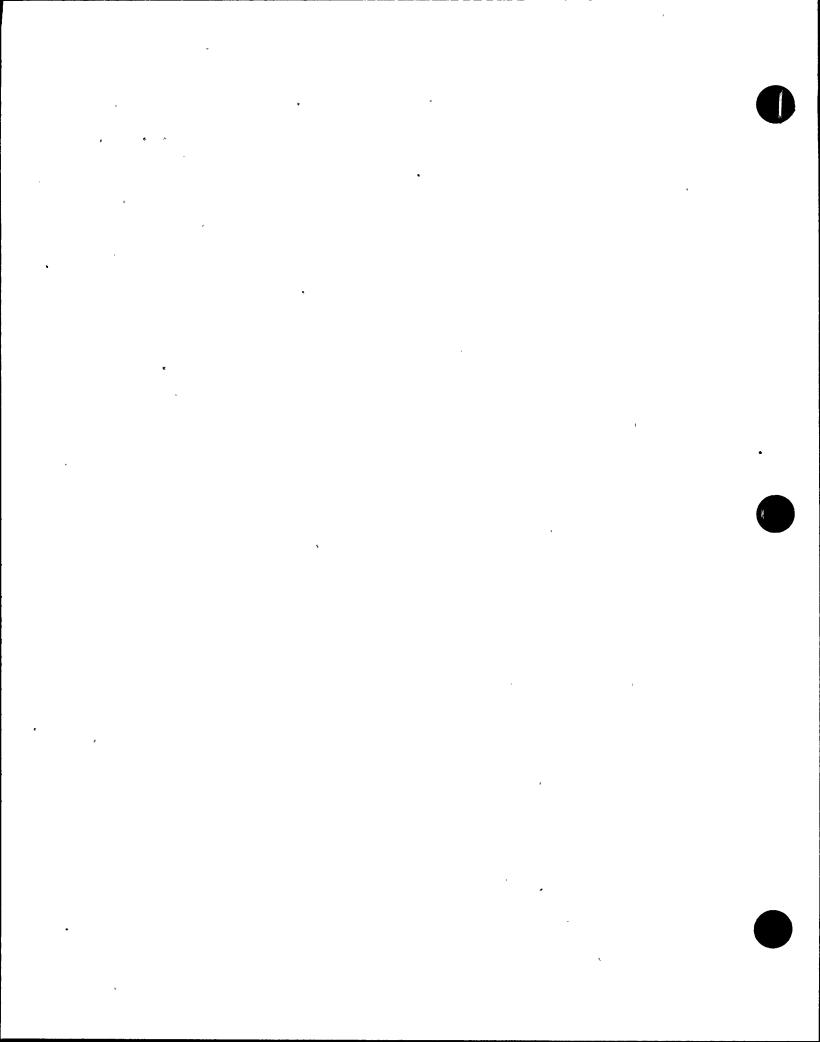
Component Description	Required		
Description	Position		Initials 1st/IV
Control Bay - Electric Board	Room 1B -		R-1R
DRYWELL FLOOR DRAIN SUMP PUMP 1B		1	ALIGNED BY 0-01-77B
REACTOR BLDG FLOOR DRAIN SUMP PUMP 1B	•	, 1	ALIGNED BY 0-01-77B
1-BKR-074-0098 RHR PUMP B SUCTION CROSSTIE VALVE FCV-74-98 (MO-10-180)	•	1	ALIGNED BY 1-01-74
CORE SPRAY TEST VALVE FCV-75-50 (MO-14-26B)		1	ALIGNED BY OI-75
NORMAL SUPPLY BREAKER	CLOSED	0	
RHR OUTBOARD VALVE FCV-74-66 (MO 10-154B)		1	ALIGNED BY A
RHRSW COMPT A SUMP PUMP B		0	ALIGNED BY 0-01-23
DRYWELL BLOWER 1A-4		1	(2)ALIGNED BY 1-01-70
RHR PUMP 1B SUCTION VALVE FCV-74-24 (MO 10-13B)	1	1	ALIGNED BY 1-01-74
		1	ALIGNED BY OI-75
SECONDARY BKR FEEDING CCW SECT VLV FCV-70-48 -FED FROM COMPT 13C2		1	ALIGNED BY 1-OI-70
	CONTROL BAY - Electric Board (1-45E751 -  DRYWELL FLOOR DRAIN SUMP PUMP 1B  REACTOR BLDG FLOOR DRAIN SUMP PUMP 1B  1-BKR-074-0098 RHR PUMP B SUCTION CROSSTIE VALVE FCV-74-98 (MO-10-180)  CORE SPRAY TEST VALVE FCV-75-50 (MO-14-26B)  NORMAL SUPPLY BREAKER  RHR OUTBOARD VALVE FCV-74-66 (MO 10-154B)  RHRSW COMPT A SUMP PUMP B  DRYWELL BLOWER 1A-4  RHR PUMP 1B SUCTION VALVE FCV-74-24 (MO 10-13B)  CORE SPRAY SYSTEM 2 MINIMUM FLO BYPASS VALVE FCV-75-37 (MO 14-6)  SECONDARY BKR FEEDING CCW SECT VLV FCV-70-48 -FED FROM COMPT 13C2	Control Bay - Electric Board Room 1B - (1-45E751 - 3 & 4)  DRYWELL FLOOR DRAIN SUMP PUMP 1B  REACTOR BLDG FLOOR DRAIN SUMP PUMP 1B  1-BKR-074-0098 RHR PUMP B SUCTION CROSSTIE VALVE FCV-74-98 (MO-10-180)  CORE SPRAY TEST VALVE FCV-75-50 (MO-14-26B)  NORMAL SUPPLY BREAKER CLOSED  RHR OUTBOARD VALVE FCV-74-66 (MO 10-154B)  RHRSW COMPT A SUMP PUMP B  DRYWELL BLOWER 1A-4  RHR PUMP 1B SUCTION VALVE FCV-74-24 (MO 10-13B)  CORE SPRAY SYSTEM 2 MINIMUM FLOW BYFASS VALVE FCV-75-37 (MO 14-68B)  SECONDARY BKR FEEDING CCW SECT VLV FCV-70-48	DRYWELL FLOOR DRAIN SUMP PUMP 1B  REACTOR BLDG FLOOR DRAIN SUMP PUMP 1B  1-BKR-074-0098 RHR PUMP B SUCTION CROSSTIE VALVE FCV-74-98 (MO-10-180)  CORE SPRAY TEST VALVE FCV-75-50 (MO-14-26B)  NORMAL SUPPLY BREAKER CLOSED  RHR OUTBOARD VALVE FCV-74-66 (MO 10-154B)  RHRSW COMPT A SUMP PUMP B  O  DRYWELL BLOWER 1A-4  1  RHR PUMP 1B SUCTION VALVE FCV-74-24 (MO 10-13B)  CORE SPRAY SYSTEM 2 MINIMUM FLOW BYPASS VALVE FCV-75-37 (MO 14-68B)  SECONDARY BKR FEEDING CCW SECT VLV FCV-70-48 FED FROM COMPT 13C2



NOV 08 1995

O-OI-57B
ATTACHMENT 3D
(Page 15 of 25)

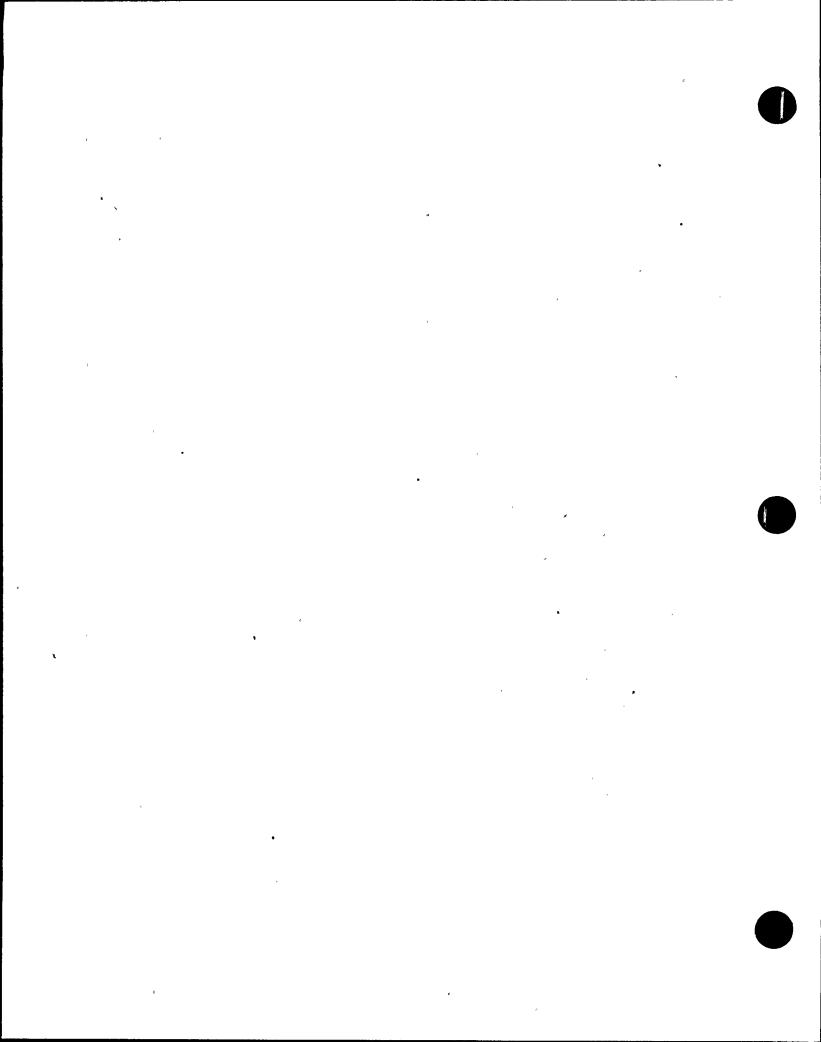
			. Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV		
	480V Reactor MC Control Bay - Electric Board (1-45E751 -	Room 1B -	El 593',	R-1R		
5C2	RHR PUMP 1D SUCTION VALVE FCV-74-35 (MO 10-13D)		1	ALIGNED BY 1-01-74		
5E	CORE SPRAY PUMP 1B SUCTION VALVE FCV-75-30 (MO 14-7B)		1	(2) <sub>ALIGNED</sub> BY OI-75		
6A	CLOSED COOLING WATER ISOL VALVE FCV-70-47 (MO 50-87) .		1	(2) <sub>ALIGNED</sub> BY 1-01-70		
6C1	ANNUNCIATOR BATTERY CHARGER 1A		0	ALIGNED BY 0-01-57D		
6C2	RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-25 (MO 10-15B)		1	ALIGNED BY 1-01-74		
6E	CORE SPRAY PUMP 1D SUCTION VALVE FCV-75-39 (MO 14-7D)		1	ALIGNED BY OI-75		
7A	SECONDARY BKR FEEDING PRESS SUPPR CHBR WTR PMP 1B FED FROM COMPT 13C3		1	ALIGNED BY 01-75		
7B	RHR PUMP 1B COOLER FAN		1	ALIGNED BY 1-01-74		
7C	RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-36 (MO 10-15D)		1	ALIGNED BY		
7E	CORE SPRAY INBOARD VALVE FCV-75-53 (MO 14-12B)		1	ALIGNED BY OI-75		
8A	HPCI BYPASS VALVE FCV-73-81		1	ALIGNED BY OI-73		



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 16 of 25)

,		Date		
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	. 480V Reactor MC Control Bay - Electric Board (1-45E751 -	Room 1B -	El 593',	R-1R
8B	CORE SPRAY NE ROOM COOLER FAN		1	ALIGNED BY OI-75
8C	RHR DISCHARGE TIE VALVE FCV-74-46 (MO 10-20)		1	ALIGNED BY 1-01-74
8E	CORE SPRAY OUTBOARD VALVE FCV-75-51 (MO 51-17B)		1	ALIGNED BY OI-75
9A	FUEL POOL MAKEUP FROM RHR THROTTLING INBOARD VALVE FCV-78	3-61	1 .	ALIGNED BY 1-01-78
9B	FUEL POOL FILTER DEMIN INBOARD ISOLATION VALVE FCV-78-63		1	ALIGNED BY 1-01-78
9D	FUEL POOL FILTER DEMIN BYPASS VALVE FCV-78-66		1	ALIGNED BY 1-01-78
9E	FUEL POOL FILTER DEMIN INBOARD ISOLATION VALVE FCV-78-68		1	ALIGNED BY 1-01-78
10C	RHR CONTAINMENT SPRAY VALVE FCV-74-74 (MO 10-26B)		1	ALIGNED BY 1-01-74
10E	RHR CONTAINMENT SPRAY VALVE FCV-74-75 (MO 10-31B)		1	ALIGNED BY 1-01-74
11A	DRYWELL CONTROL AIR COMPRESSOR 1B & DRYER 1B		1 . • .	ALIGNED BY 1-01-32A
11B1	1-BKR-268-01B/11B1 SPARE		6 6	
11B2	.1-BKR-268-01B/11B2 SPARE			
11C	RHR PSC ISOLATION VALVE FCV-74-71 (MO-10-39B)		1	ALIGNED BY 1-01-74



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 17 of 25)

#### 480V/240V AC ELECTRICAL SYSTEM UNIT: 1 480V SHUTDOWN BOARDS AND REACTOR MOV BOARDS ELECTRICAL LINEUP CHECKLIST

UNIT 1 Date Initials Required Breaker Component Position Unit 1st/IV Number Description 480V Reactor MOV Board 1B Control Bay - Electric Board Room 1B - El 593', R-1R (1-45E751 - 3 & 4)RHR PSC SPRAY VALVE 1 ALIGNED BY 11E FCV-74-72 (MO 10-38B) 1-OI-74 ALIGNED BY 1 12B RHR PUMP 1D COOLER FAN 1-01-74 ALIGNED BY 1 RHR DISCHARGE TO RADWASTE 12E VALVE FCV-74-63 (MO 10-57) 1-OI-74 RCIC STEAM SUPPLY ISOLATION 1 ALIGNED BY 13A 1-01-71 VALVE FCV-71-2 (MO 13-15) REACTOR BLDG EMERG LTG XFMR 13C1 1 1Ø 480 TO 520 - 236/118V ON ALIGNED BY 1 PRIMARY ISOLATION BKR 13C2 1-01-70 FEEDING COMPT 5A CCW SECT VLV FCV-70-48 1 ALIGNED BY 13C3 PRIMARY ISOLATION BKR OI-75 FEEDING COMPT 7A PRESS SUPPR CHBR WTR PMP 1B ALIGNED BY 1-BKR-031-7206 SHUTDOWN BOARDROOM 13D1 0-0I-31 ACU/1B

RHR SYSTEM II FLUSH VALVE

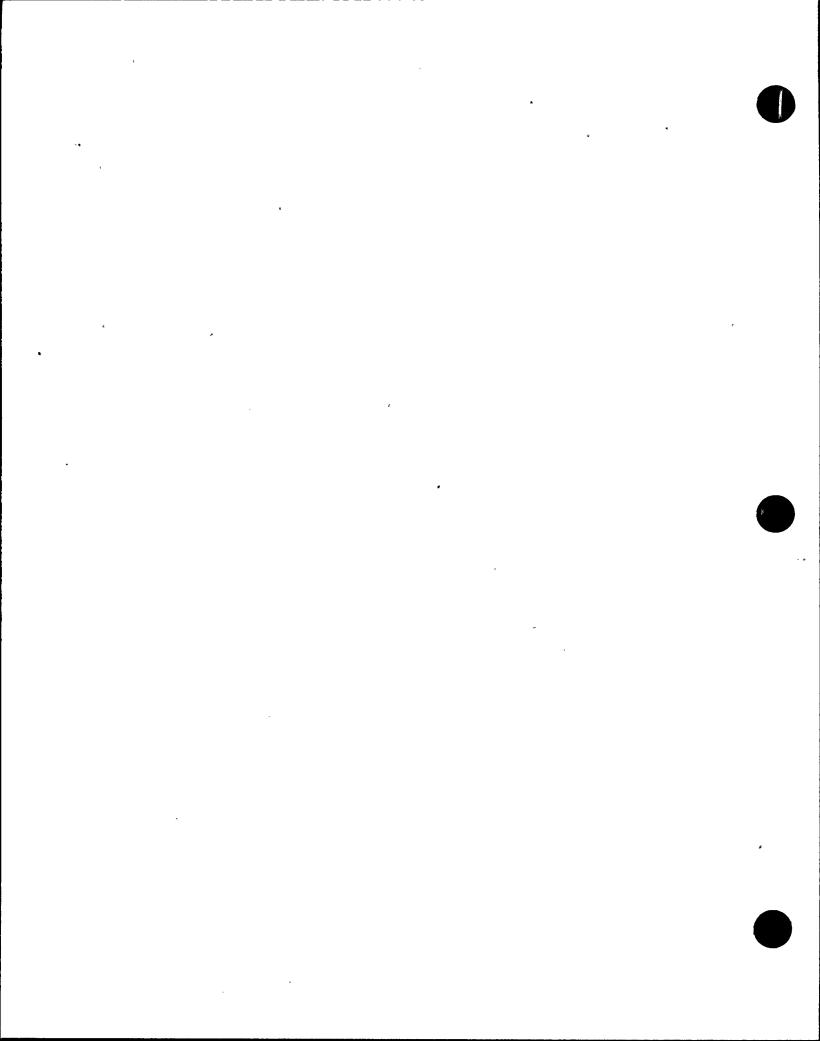
FCV-74-106 (MO-106)

13E

ALIGNED BY

1-OI-74

1



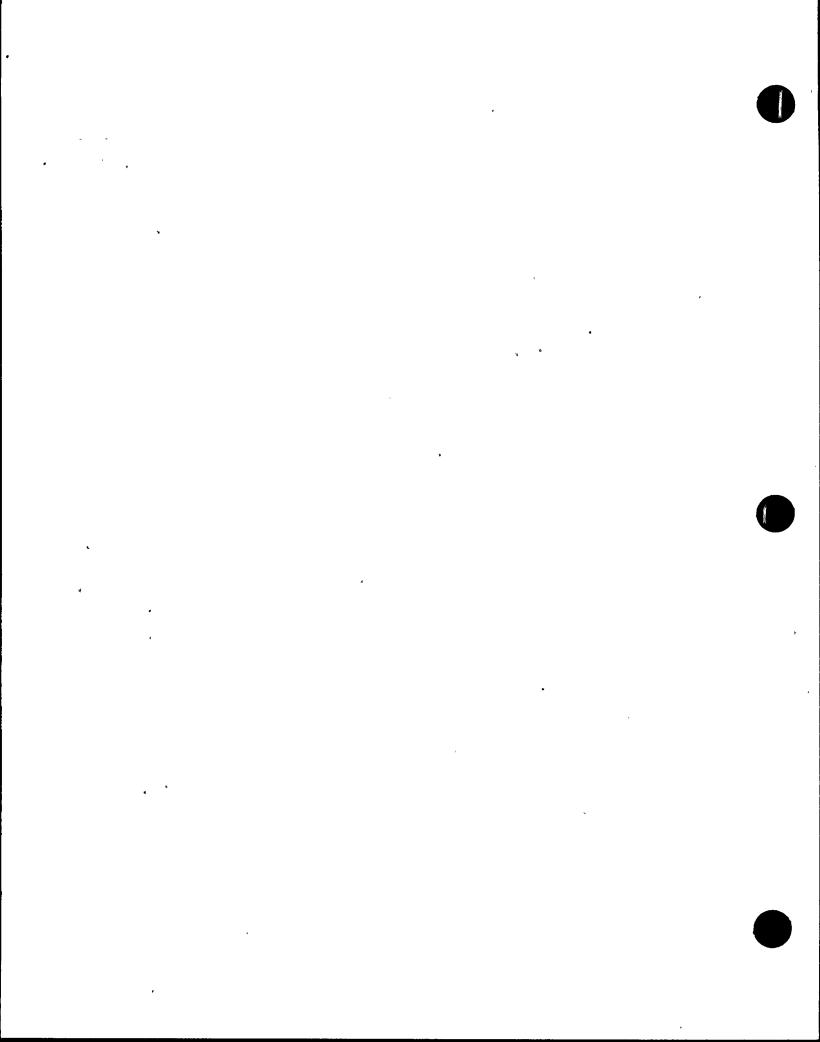
UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3D (Page 18 of 25)

		•	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor N Control Bay - Electric Boar (1-45E751	d Room 1B - 1	El 593',	R-1R
14A	0-BKR-067-0018 EECW SOUTH HDR SECT VLV FCV-67-18	-	0	ALIGNED BY 0-01-67
14C1	REACTOR PROTECTION SYS		1	ALIGNED BY 1-01-99
14C2	RHR HEAT EXCHANGER B SERVICE WTR DISCHARGE VALVE FCV-23-46 (MO 10-89B)		1	ALIGNED BY 0-01-23
15A .	DRYWELL BLOWER 1B-4		1 ,	(2) <sub>ALIGNED</sub> BY 1-01-70
15C .	RHR HEAT EXCHANGER D SERVICE WTR DISCHARGE VALVE FCV-23-52 (MO 10-89D)		1	ALIGNED BY 0-01-23
15E	0-BKR-023-0083B RHRSW COMPT C SUMP PUMP B		0	ALIGNED BY 0-01-23
16D	EMERGENCY SUPPLY BREAKER	CONNECTED AND OPEN	1	/

<sup>(2)</sup> This breaker shall remain OPEN per DCN T37517A.



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 19 of 25)

	4	. Date		
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor M Control Bay - Electric Board (1-45E751 -	d Room 1B -	El 593',	R-1R
17A	BOARD ROOMS EMERGENCY SUPPLY FAN 1B		0	ALIGNED BY 0-01-31
17B1	BATTERY CHARGER SB-C		0	ALIGNED BY 0-01-57D
17B2	STANDBY LIQUID CONTROL TRACE HEATING ALT CIRCUIT & PUMP 1B MOTOR HEATER		1	ALIGNED BY 1-01-63
17C	1-BKR-023-0057 STANDBY COOLANT VALVE (MO 10-169)	`	1	ALIGNED BY 0-OI-23 AND 1-OI-74
17E	REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE FCV-69-12 (MO 12-68)		1	ALIGNED BY 1-01-69
18A	DRYWELL EQUIPMENT DRAIN SUMP PUMP 1B		1	ALIGNED BY 0-01-77A
18B	REACTOR BLDG EQUIPMENT DRAIN SUMP PUMP 1B		1	ALIGNED BY 0-01-77A
18D	REACTOR WATER CLEANUP DEMINERALIZER HOLDING PUMP 1B		1	ALIGNED BY 1-01-69
18E1	1-BKR-268-01B/18E1 SPARE	V		
18E2	TURBINE BEARING LIFT -PUMPS ASSEMBLY B		1	ALIGNED BY OI-47B

UNIT 0 0-01-57B

ATTACHMENT 3D (Page 20 of 25)

#### NOV 08 1995

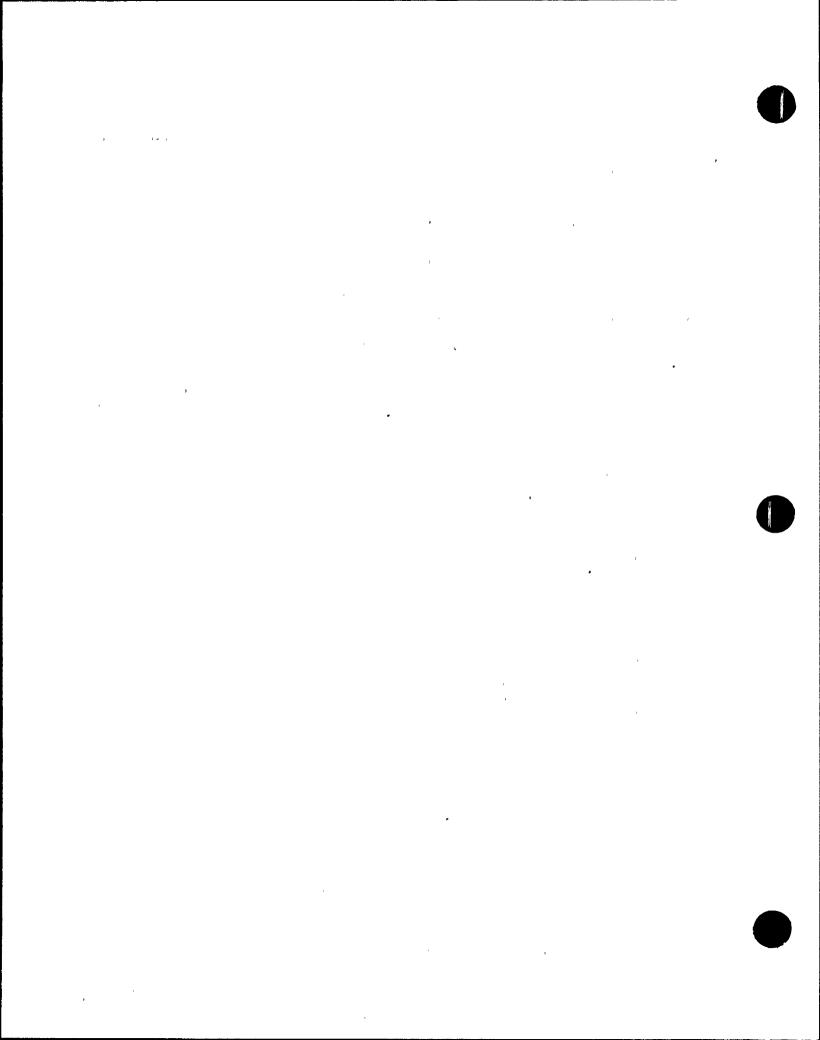
	ONE		D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Control Bay - Electric Boa	MOV Board 1B rd Room 1B 3 & 4)	El 593',	R-1R
19A	2-BKR-074-0100 RHR HEAT EXCHANGER DISCHARGE CROSSTIE VALVE FCV-74-100 (MO 10-171)		2	ALIGNED BY 2-01-74
19C	1-BKR-074-0101 RHR HEAT EXCHANGER B & D DISCHARGE CROSSTIE VALVE FCV-74-101		1	ALIGNED BY 1-01-74
19E ·	2-BKR-074-0096 RHR PUMP A SUCTION CROSSTIE VALVE FCV-74-96		2	ALIGNED BY 2-01-74
R9A	SECONDARY BKR FEEDING 250V SD BD BAT RM EXH FAN 1B FED FROM COMPT R9D1		0 .	ALIGNED BY 0-01-31
R9B	SECONDARY BKR FEEDING 250V SD BD BAT RM SUPPLY FAN 1B FED FROM COMPT R9D2		0	ALIGNED BY 0-01-31
R9D1	PRIMARY ISOLATION BKR FEEDING COMPT R9A 250V SD BAT RM EXH FAN 1B	,	0	ALIGNED BY 0-01-31
R9D2	PRIMARY ISOLATION BKR FEEDING COMPT R9B 250V SD BAT RM SUPPLY .FAN 1B		0	ALIGNED BY 0-01-31
R10F	PRI CONTAINMENT ATMOSPHERIC MONITOR SYSTEM ANALYZER SAMP RETURN PUMP	LE .	1	ALIGNED BY OI-76

NOV 08 1995

UNIT 0 0-01-57B

ATTACHMENT 3D (Page 21 of 25)

	UNIT I	•	Dáte	<u> </u>
Breaker Number	<u> </u>	Required Position	Unit	Initials 1st/IV
.,	480V Reactor MOV Reactor Bldg - El (1-45E751 - S	565', R-21	•	
1A	DRYWELL BLOWER 1A-5		1	ALIGNED BY
ıc	EQUIPMENT HANDLING PLATFORM OUTLETS	OFF/ON (2)	1	/
LD	RECIRCULATION M-G SET OIL PUMP 1B-3		1	ALIGNED BY OI-68
2D		CONNECTED AND OPEN	1	/
BA	CONTAINMENT ATMOSPHERE DILUTION SYSTEM A HEATER		0 "	ALIGNED BY 2-01-84
В	CRD DRIVE WATER TRANSFER VALVE FCV-85-8A	ų.	1	ALIGNED BY OI-85
sc .	CRD RETURN LINE ISOLATION VALVE FCV-85-50		1	ALIGNED BY OI-85
BE	CRD WATER PRESSURE CONTROL VALVE PCV-85-23		1	ALIGNED BY OI-85
IA	RBCCW SEAL WATER COLLECTION AND TRANSFER PUMP		1	ALIGNED BY 1-01-70
lB	REACTOR BUILDING EQUIPMENT DRAIN SUMP PUMP 1A		1	ALIGNED BY 0-01-77A
lE .	CRD COOLING WATER PRESS CONT VALVE PCV-85-27		1	ALIGNED BY OI-85
2) This	breaker shall remain OPEN per DCN	T37517A.		•



NOV 08 1995

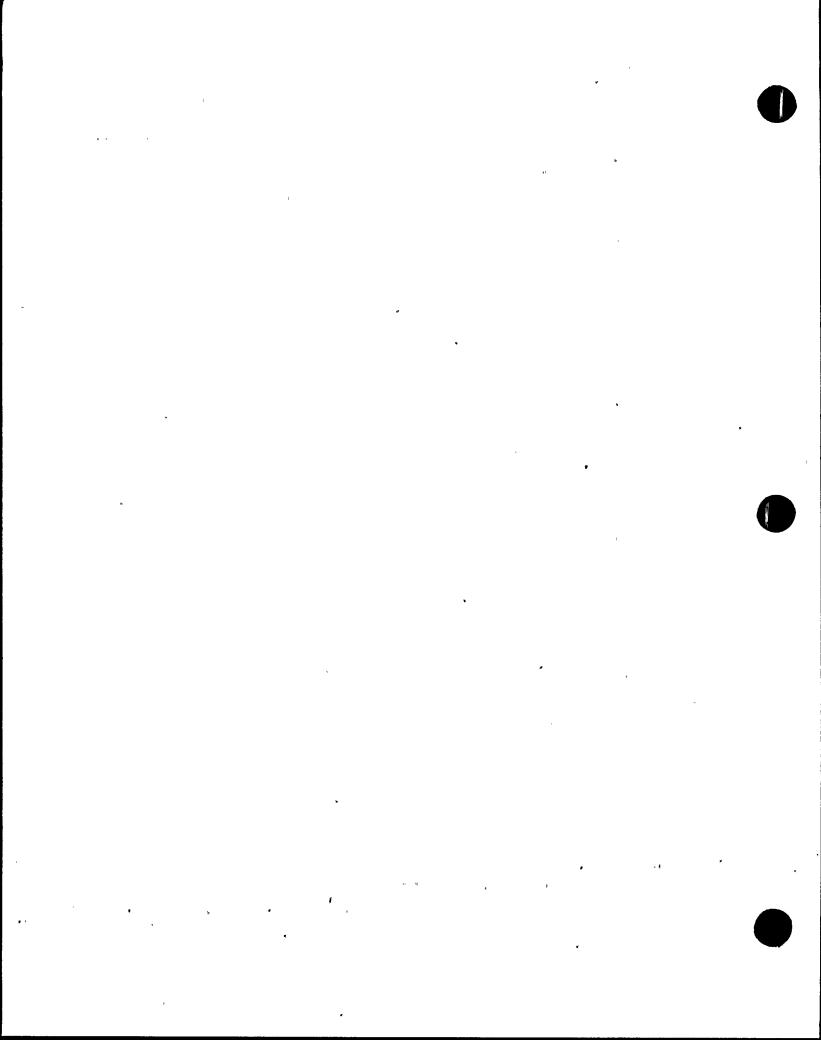
UNIT 0 0-OI-57B ATTACHMENT 3D (Page 22 of 25)

			Date
Breaker Number	Component Description	Required Position Uni	Initials it 1st/IV
•	480V Reactor Mo Reactor Bldg - E (1-45E751 -	1 565', R-2T	
5B	BUS HT EXCH ALT CIR & HYD. COOL W SHUTOFF MOV FCV-24-25	1	ALIGNED BY 1-01-24
5C	CLOSED COOLING WATER SPARE PUMS SUCTION VALVE A FCV-70-13	9 0	ALIGNED BY 2-01-70
5E	CRD PUMP SUCTION SHUTOFF VALVE FCV-85-56	1	ALIGNED BY OI-85
6B	STATOR LIQUID COOLING W SHUTOFF MOV FCV-24-41	1	ALIGNED BY 1-01-24
6C	CLOSED COOLING WATER SPARE PUM DISCH. VALVE A FCV-70-14	Р 0	ALIGNED BY 2-01-70
6E	MAIN STEAM LINE DRAIN VALVE FCV-1-58	1	ALIGNED BY OI-1 _
7A	REAC. BLDG. FLOOR DR SUMP PUMP	1A 1	ALIGNED BY 0-01-77A
7B	PRECOOL LIQ COOLING W. SHUTOFF MOV FCV-24-57	1	ALIGNED BY 1-01-24
7C	REAC W. CLEAN-UP BLOWDOWN VALVE FCV-69-16	1	ALIGNED BY 1-01-69
7E .	RWCU FILTER AND DEMIN SYSTEM BYPASS VALVE FCV-69-8	1	ALIGNED BY 1-01-69

NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 23 of 25)

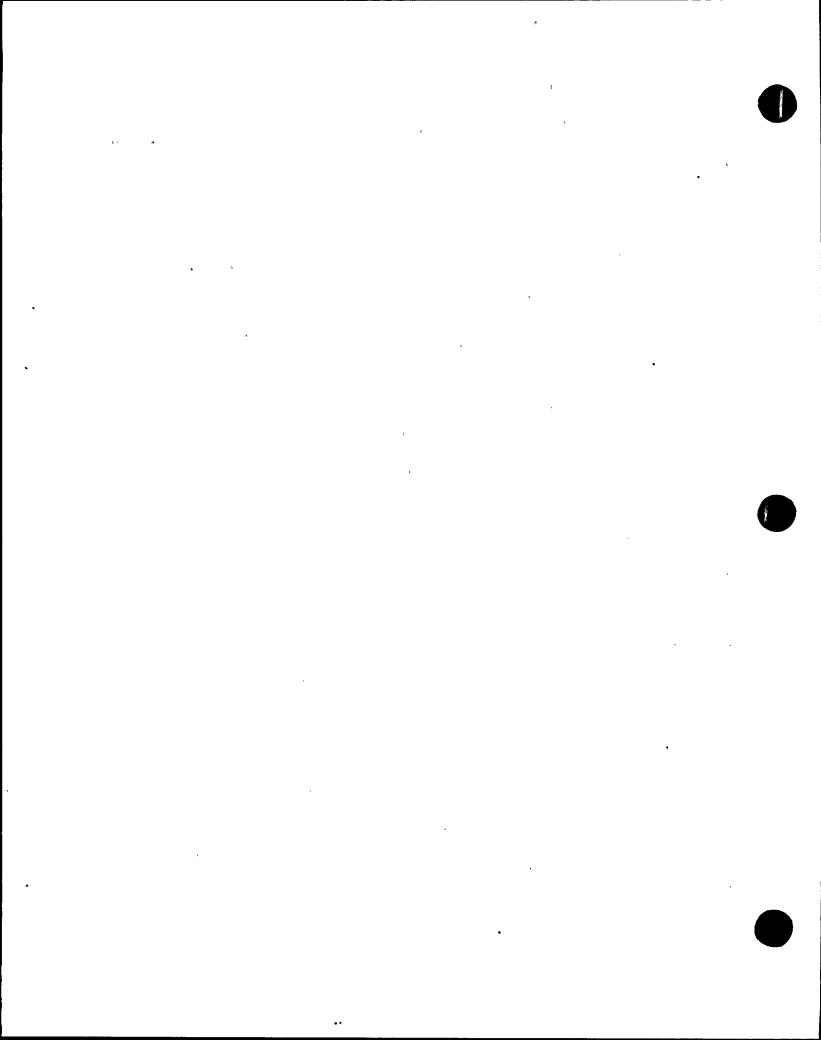
	T .	4	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor M Reactor Bldg - E (1-45E751 -	1 565', R-27	e	
8B '	TURBINE OIL & EHC FLUID COOL W SHUTOFF MOV FCV-24-65	• •	1	ALIGNED BY 1-01-24
8C	REAC W. CLEAN-UP DR. TO RADWASTE V. FCV-69-17		1	ALIGNED BY 1-01-69
8E	REAC W. CLEAN-UP RESTRICTING ORF BYP FCV-69-14		1	ALIGNED BY 1-01-69
9B	MAIN STEAM LINE DRAIN VALVE FCV-1-57		1	ALIGNED BY OI-1
9E .	MAIN ST. LINE DRAIN TO COND INLET VALVE FCV-1-59		1	ALIGNED BY OI-1
10D ·	NORMAL FEEDER BREAKER	CLOSED	1	/
11A	DRYWELL BLOWER 1B-5		1 .	(2) <sub>ALIGNED</sub> BY .1-01-70
11C	PSC WATER HEAD TANK PUMP 1A		1	ALIGNED BY OI-75
R6B	RECIRC HDR EQ FCV-68-33		1 ,	ALIGNED BY OI-68
R6E	RECIRC PUMP 1B SUCTION VALVE FCV-68-77		1 .	(2) <sub>ALIGNED</sub> BY OI-68
R7B	EMER MAINT FEED TO 480V REAC MOV BD 1D (TEMPORARY)	CONNECTED AND OPEN	1	/
(2) This	breaker shall remain OPEN per Do	CN T37517A.		



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3D (Page 24 of 25)

	· uni	2 1	,	
		•	D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor Reactor Bldg - (1-45E751	El 565', R-2	r	
R8A	1-BKR-068-0001 RECIRCULATION PUMP 1A SUCTION VALVE FCV-68-1		1	ALIGNED BY OI-68
RSE	RECIRCULATION HEADER EQUALIZER VALVE FCV-68-35		1	ALIGNED BY OI-68
19B	EMER MAINT FEED TO 480V REAC MOV BD 1E (TEMPORARY)	CONNECTED AND OPEN	1	/
LD	480V Reactor 1 Reactor Bldg - (1-45E75	El 593', R-T	1	
		020020	•	ALIGNED BY
C.	RHR INBOARD VALVE (FCV-74-53)		1	1-0I-74
BE	RECIRCULATION PUMP 1B DISCH VALVE FCV-68-79		1	ALIGNED BY OI-68
. di	EMERGENCY SUPPLY BREAKER	CONNECTED AND OPEN	1	/
5A	TEMPORARY EMER MAINT FEEDER BREAKER	CONNECTED AND OPEN	1	/
6C	RHR TEST VALVE FCV-74-59		1	ALIGNED BY 1-01-74
SE .	RHR PUMPS A & C MIN FLOW BYP. V. FCV-74-7		1	ALIGNED BY 1-01-74

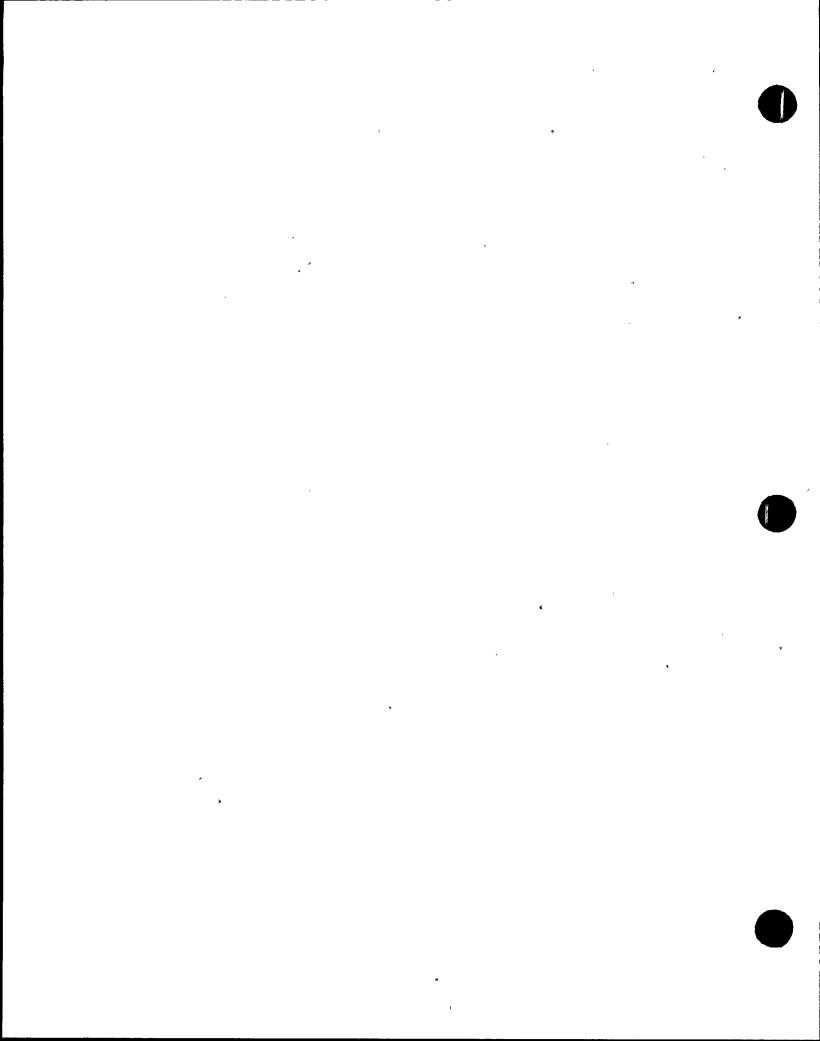


UNIT 0 0-01-57B

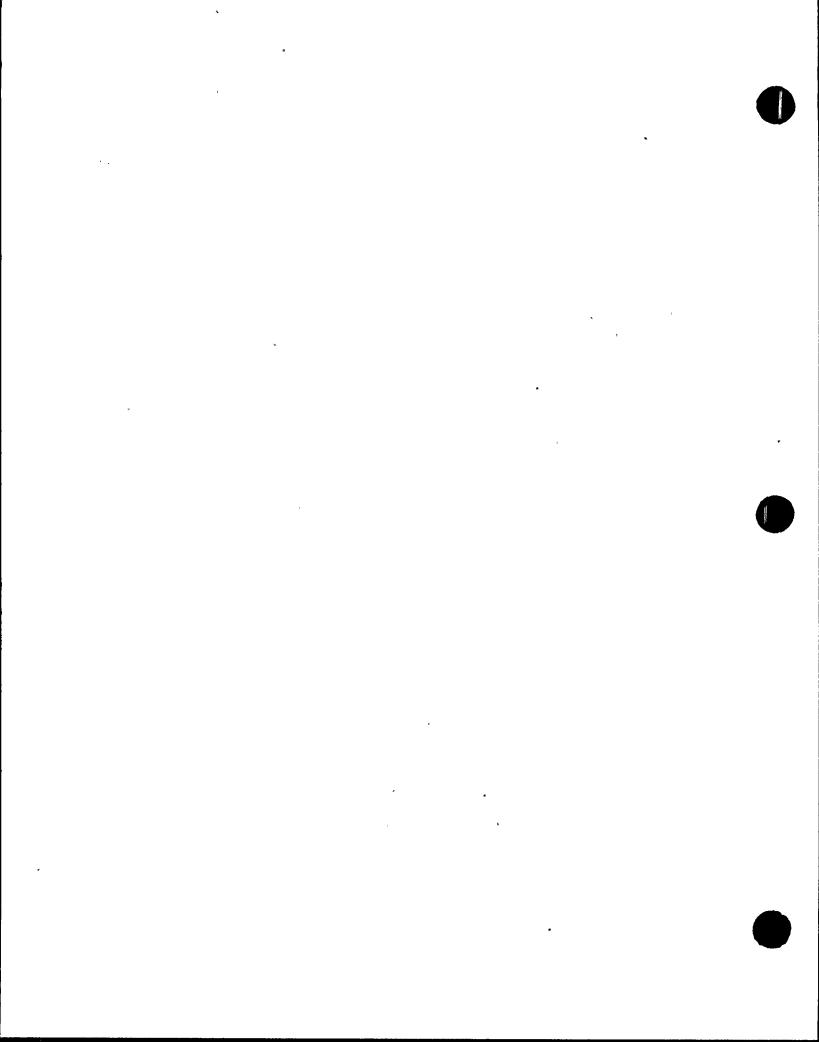
ATTACHMENT 3D (Page 25 of 25)

#### NOV 08 1995

	,		D	ate
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor 1 Reactor Bldg - (1-45E7	El 621', R-S	3	
1D	NORMAL SUPPLY CIRCUIT MAIN CIRCUIT BREAKER	CLOSED	1	/
2C	RHR INBOARD VALVE (FCV-74-67)		1	(2) <sub>ALIGNED</sub> BY 1-01-74
3E	RECIRCULATION PUMP 1A DISCH. VALVE (FCV-68-3)		1	(2) <sub>ALIGNED</sub> BY OI-68
4A .	TEMPORARY EMER MAINT FEEDER BREAKER	CONNECTED AND OPEN	1	
4C	RHR TEST VALVE (FCV-74-73)		1	ALIGNED BY 1-01-74
4E	RHR PUMPS B & D MIN. FLOW BYP V (FCV-74-30)		1	ALIGNED BY 1-01-74
5D	EMERGENCY SUPPLY CIRCUIT MAIN CIRCUIT BREAKER	CONNECTED AND OPEN	1	
(2) This	breaker shall remain OPEN per I	OCN T37517A.		



# UNIT 2 480V AC BIARDS



UNIT 0 ×

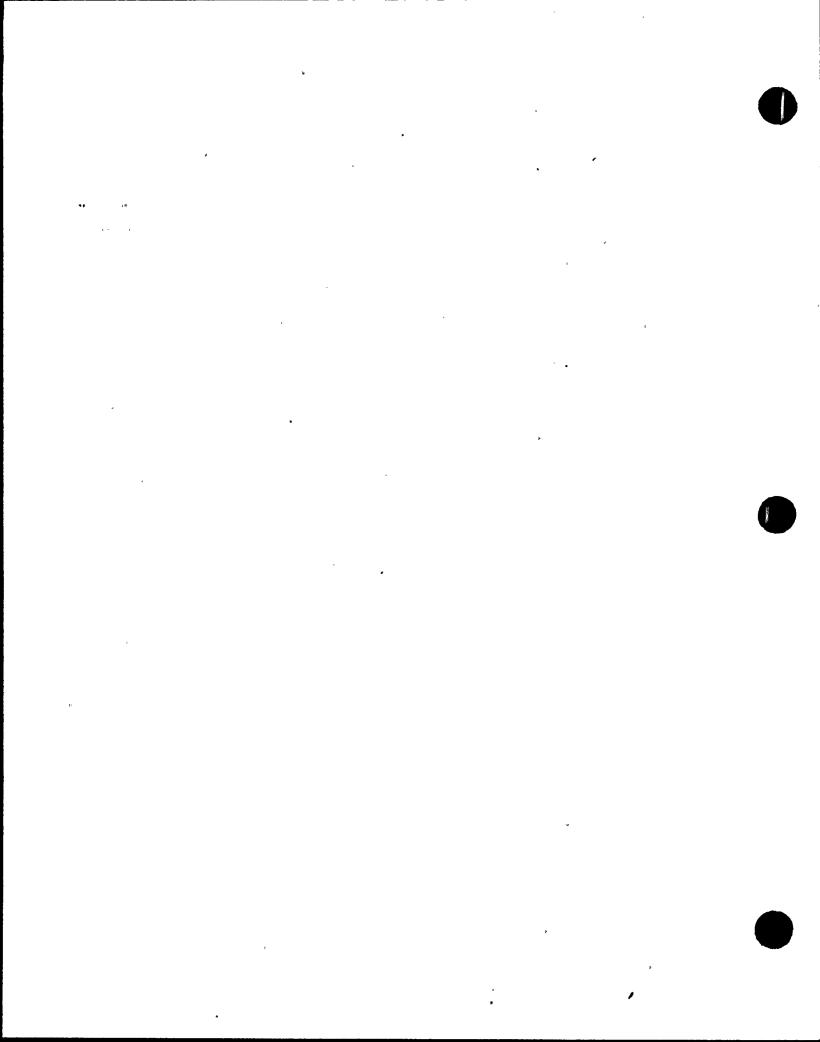
0-0I-57B

ATTACHMENT 3E (Page 3 of 26)

#### 480V/240V AC ELECTRICAL SYSTEM UNIT 2 480V SHUTDOWN BOARDS AND REACTOR MOV BOARDS . ELECTRICAL LINEUP CHECKLIST UNIT 2

NOV 08 1995

			Date	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Shutdown Board Tra Reactor Build (2-45E749	ing - El 621'	and TS2B	
	TS2A FAN SELECTOR SWITCH	AUTO	2	'/
	TS2A CONTROL POWER SELECTOR SWITCH	ои	2	/
	TS2B FAN SELECTOR SWITCH	AUTO	2	/
	TS2B CONTROL POWER SELECTOR	ON	2	,



UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 4 of 26)

	•		Date	<del></del>
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown Control Bay - Div I, Electric (2-45E749	c Board Room 2A	- El 621'	•
1C	NORMAL FEEDER BREAKER FROM XFMR TS2A	CLOSED	<b>o</b> ,	/
2B	INSTRUMENT & CONTROL BUS A TRANSFORMER T1C2A	CLOSED	0	/
2C	DRYWELL BLOWER 2A-1		2	ALIGNED BY 2-01-70
2.D	DRYWELL BLOWER 2A-2		2	ALIGNED BY 2-01-70
3A	NORMAL FEEDER 480V REACTOR MOV BOARD 2A	CLOSED	0	/
3B	EMERGENCY FEEDER 480V REACTOR MOV BOARD 2B	OPEN (2)	0	/
3C	EMERGENCY FEEDER 480V REACTOR MOV BOARD 2C	OPEN(2)	0	/
5A	CONTROL & SERVICE AIR COMPRESSOR D		0	ALIGNED BY 0-01-32
5B	2-BKR-231-0002A/5B MG SET 2DN NORM FEEDER FOR 480V RMOV BD 2D	CLOSED/ CONNECTED(1)	2	/
5C	RECIRCULATION MG SET OIL PUMP 2A-1		2	ALIGNED BY 2-01-68
5D	RECIRCULATION MG SET OIL PUMP 2B-1	•	2	ALIGNED BY 2-01-68

<sup>(1)</sup> Closed if MG set in service, circle position selected.

<sup>(2)</sup> This breaker shall remain OPEN for Appendix R requirements DCN T37517.

UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 5 of 26)

	•		Date	
Breaker Number	Component Description	Required Position	Unit	Initials - 1st/ÍV
	480V Shutdown Control Bay - Div I, Electric (2-45E749	Board Room 2A	- El 621'	
6A	MG SET 2EA EMERGENCY FEEDER FOR 480V REACTOR MOV BD 2E	CLOSED/ CONNECTED(1)	2	/
6B	· CLOSED COOLING WATER PUMP 2A		2	ALIGNED BY
6C	REACTOR WATER CLEANUP RECIRCULATING PUMP 2A		2	ALIGNED BY 2-01-69
6D	2-BKR-248-0002A/6D 250V BATTERY CHARGER 2A	•	0	ALIGNED BY 0-OI-57D
7A ·	3-BKR-031-1943A CONTROL BAY WATER CHILLER 3A		0	ALIGNED BY 0-01-31
7B	2-BKR-063-0006A . 2A SLC PUMP MOTOR BREAKER	·	2	ALIGNED BY 2-01-63
7c '	FUEL POOL COOLING PUMP 2A		2	ALIGNED BY 2-01-78
7D	UNIT PREFERRED MG SET 2	CLOSED	2	/
8C	EMERGENCY FEEDER BREAKER FROM XFMR TS2E	CONNECTED AND OPEN	0	

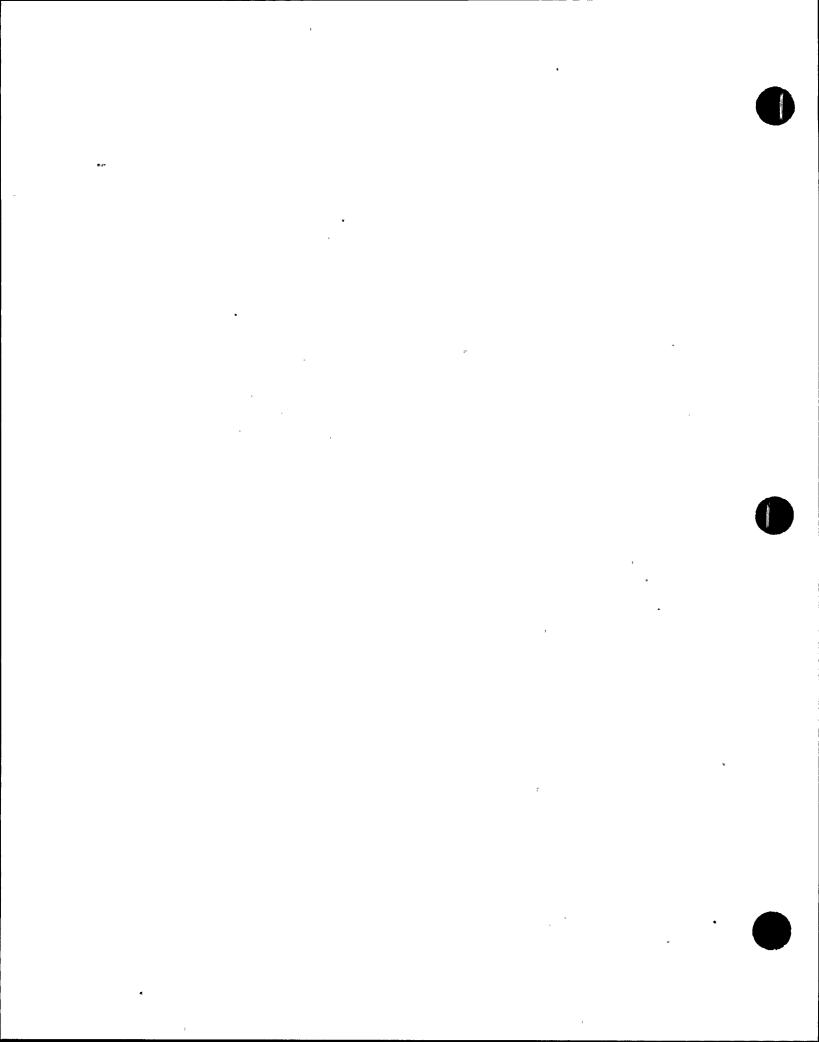
NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3E (Page 6 of 26)

			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Shutdow Control Bay - Div II, Electr . (2-45E74	ic Board Room 2B	- El 621'	
1C	NORMAL FEEDER BREAKER FROM XFMR TS2B	CLOSED	0	
2A	MG SET 2EN NORMAL FEEDER FOR 480V REACTOR MOV BD 2E	CLOSED/ CONNECTED(1)	2	
2B	EMERGENCY FEEDER 480V CONDENSA DEMINERALIZER BOARD 2	re CLOSED	2	/
2C	DRYWELL BLOWER 2B-1	•	2	ALIGNED BY 2-01-70
2D	DRYWELL BLOWER 2B-2		2 .	ALIGNED BY 2-01-70
3A ·	EMERGENCY FEEDER 480V REACTOR MOV BOARD 2A	OPEN (2)	0	
3B	NORMAL FEEDER 480V REACTOR MOV BOARD 2B	CLOSED	0	/
3C	NORMAL FEEDER 480V REACTOR MOV BOARD 2C	CLOSED	0	/
5A	CONTROL BAY WATER CHILLER B		0	ALIGNED BY 0-01-31
5B	INSTRUMENT AND CONTROL BUS B TRANSFORMER TIC 2B	CLOSED	0	/
5C	, RECIRCULATION MG SET OIL PUMP 2A-2		2	ALIGNED BY 2-01-68

<sup>(1)</sup> Closed if MG set in service, circle position selected.

<sup>(2)</sup> This breaker shall remain OPEN for Appendix R requirements DCN T37517.



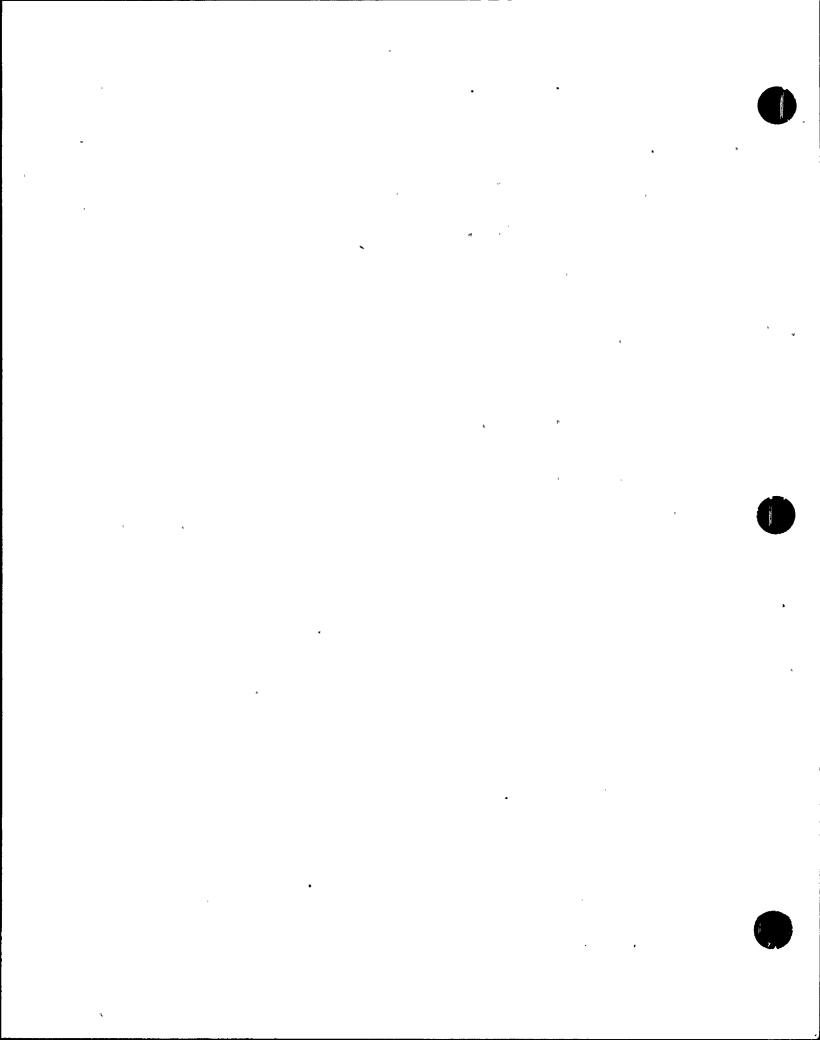
UNIT 0 0-01-57B

ATTACHMENT 3E

(Page 7 of 26)

#### NOV 08 1995

	•		Date	
Breaker Number	<del>-</del>	Required Position	Unit ,	Initials 1st/IV
,	480V Shutdown Boa Control Bay - Div II, Electric Boa (2-45E749 - 4	oard Room 2B	- El 621'	
5D	RECIRCULATION MG SET OIL PUMP 2B-2		2	ALIGNED BY 2-01-68
6A	RAW COOLING WATER BOOSTER PUMP 2A		2	ALIGNED BY 2-01-24
6B	CLOSED COOLING WATER PUMP 2B .		2	ALIGNED BY 2-01-70
6C	REACTOR WATER CLEANUP RECIRCULATION PUMP 2B		2	ALIGNED BY 2-01-69
6D	2-BKR-248-0002B/6D 250V BATTERY CHARGER 2B		0	ALIGNED BY 0-01-57D
7A	MAIN TURBINE TURNING GEAR OIL PUMP		2	ALIGNED BY 2-01-47B
7B .	2-BKR-063-0006B 2B SLC PUMP MOTOR BREAKER		2	ALIGNED BY 2-01-63
7C	FUEL POOL COOLING PUMP 2B		2	ALIGNED BY 2-01-78
<b>7</b> D		CLOSED/ CONNECTED(1)	2	
8C		CONNECTED AND OPEN	0	/

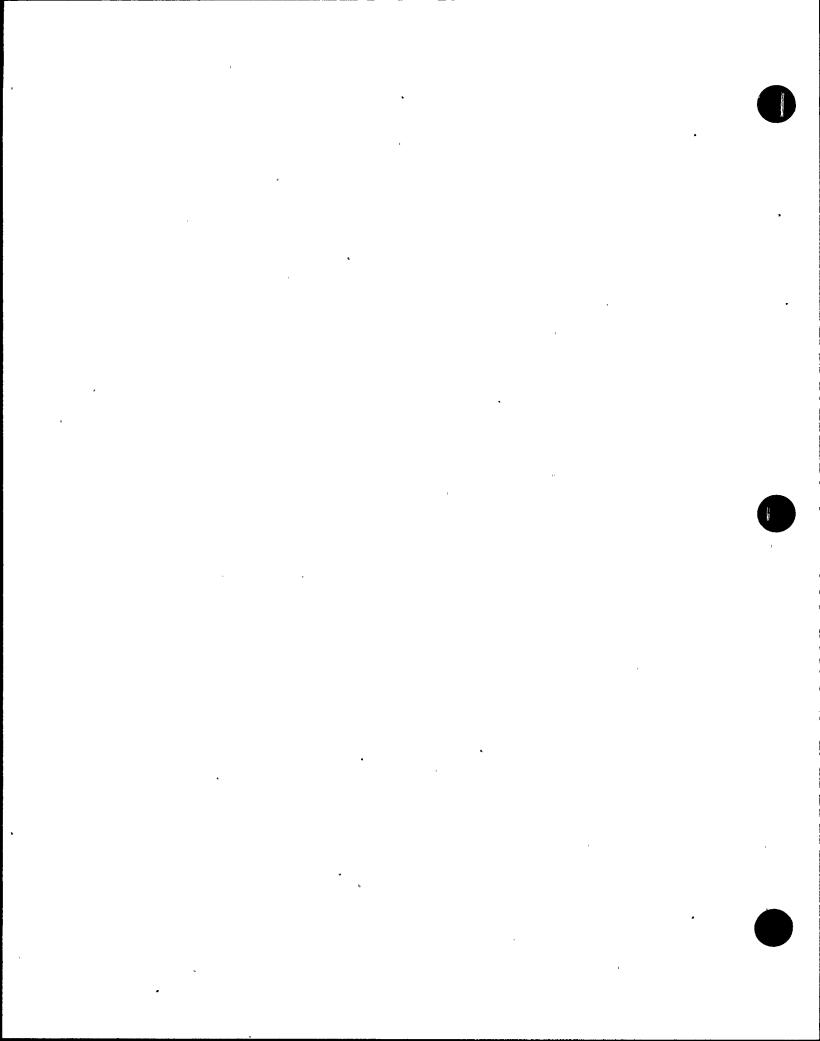


UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 8 of 26)

	•		Date	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Reactor MOV Control Bay - Div I, Electric Boar (2-45E751 - 1	d Room 2A - E	1 621', R-1	.4R
1A	SHUTDOWN BOARD ROOMS EXHAUST FAN 2A		0	ALIGNED BY
<b>1B</b>	2-BKR-031-7205 SD BD RM ACU/A EL 604 SD BD RM C & D		0	ALIGNED BY 0-01-31
1D	SECONDARY BKR FEEDING TURB BRG LIFT PUMPS ASSY A FED FROM COMPT 19C4		2	ALIGNED BY 2-01-47B
2B	2-BKR-074-0052 RHR OUTBOARD VALVE FCV-74-52		2	ALIGNED BY 2-01-74
3D	2-BKR-268-002A/03D NORMAL FEEDER BREAKER FROM 480V SHUTDOWN BOARD 2A	CLOSED	0	/
4A	2-BKR-064-0068 RHR PUMP 2A COOLER FAN		2	ALIGNED BY 2-01-74
4B	. FUEL POOL MAKE UP FROM RHR OUTBOARD VALVE (FCV-78-62)		2	ALIGNED BY 2-01-78
4C	2-BKR-074-0001 RHR PUMP 2A SUCTION VALVE FCV-74-1		2	ALIGNED BY 2-01-74
4E	DRYWELL EQUIPMENT DRAIN SUMP PUMP 2A		2	ALIGNED BY 0-01-77A
5A2	BATTERY CHARGER SB-B		0	ALIGNED BY 0-01-57D
5B	RHR LOOP I MODE SELECTOR SWITCH FOR 2-FCV-74-1, 12 AND 48	*	2	ALIGNED BY 2-01-74

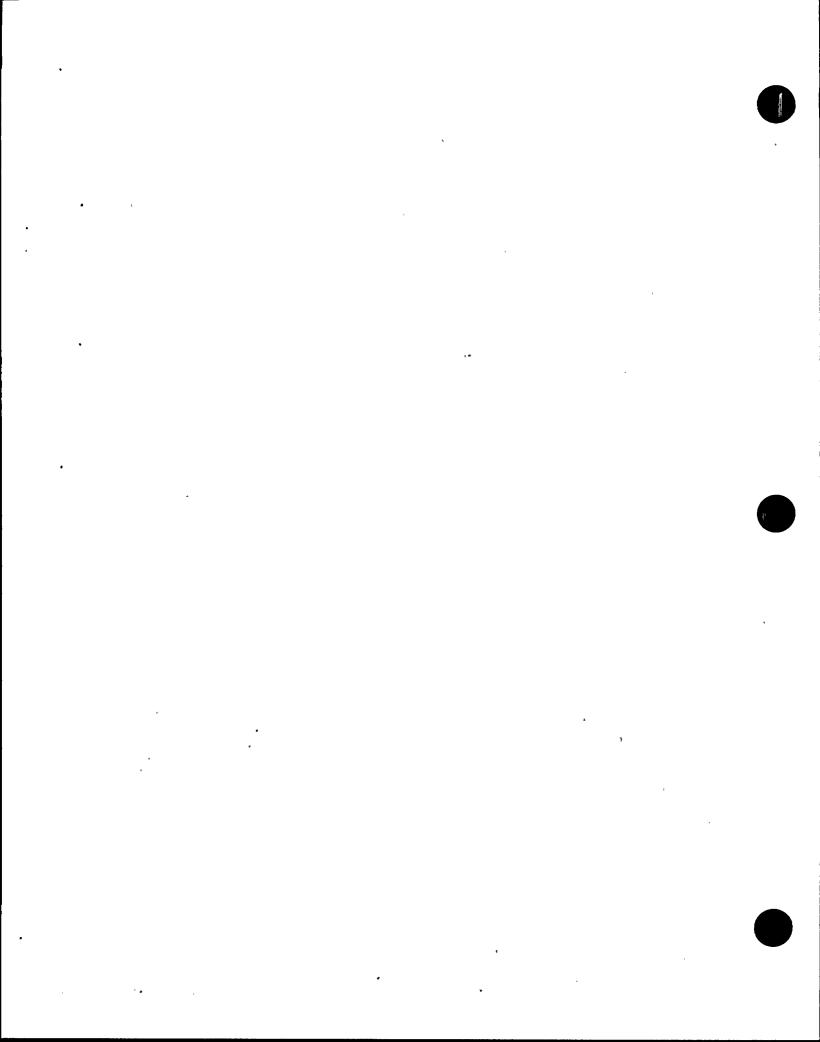


UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 9 of 26)

•			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Control Bay - Div I, Electric (2-45E751	Board Room 2A	- El 621',	R-14R
5C	2-BKR-074-0012 RHR PUMP 2C SUCTION VALVE FCV-74-12		2	ALIGNED BY 2-01-74
5E	DRYWELL FLOOR DRAIN SUMP PUMP 2A		2	ALIGNED BY
6A .	2-BKR-064-0072 CORE SPRAY NW ROOM COOLER FAN		2	ALIGNED BY 2-01-75
6C	2-BKR-074-0002 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-2		, 2	ALIGNED BY
6E -	2-BKR-074-0062B SECONDARY BKR FEEDING RHR DISCH TO MAIN CNDR VLV FCV-64-62 FED FROM COMPT 19C3		2	ALIGNED BY 2-01-74
7A	SECONDARY BKR FEEDING TURBINE BLDG EMER LTG XFMR FED FROM COMPT 19C1	ON .	0	/
7B	DRYWELL CONTROL AIR COMPRESSOR 2A AND DRYER 2A'		2	ALIGNED BY 2-01-32A
7C	2-BKR-074-0013 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-13		2	ALIGNED BY 2-01-74
7E	2-BKR-074-0104 RESIDUAL HEAT REMOVAL SYSTEM I FLUSH VALVE FCV-74-104		2	ALIGNED BY 2-01-74
8C	2-BKR-074-0048 AHR SHUTDOWN COOLING SUCTION ISOLATION VALVE FCV-74-48		2	ALIGNED BY 2-01-74
8E	PIGGY BACK MOTOR MAIN TURBINE TURNING GEAR	4	2	ALIGNED BY 2-01-47



UNIT 0 0-OI-57B ATTACHMENT 3E (Page 10 of 26)

#### NOV 08 1995

	•		Date			
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV		
	480V Reactor M Control Bay -Div I, Electric Bo (2-45E751 -	ard Room 2A - E	l 621', R-14	R		
9A	2-BKR-047-0010A					
	PRIMARY ISOLATION BKR		2	ALIGNED BY		
	FEEDING COMPT 10A MAIN TURB			2-01-47		
	TURNING GEAR MOTOR	•	8.			
9B1	2-BKR-064-0131					
	PRIMARY CONTAINMENT PURGE		1	ALIGNED BY		
	, AIR FILTER FAN		2	2-01-64		
9B2	FUEL POOL FILTER DEMIN OUTBOA	RD		ALIGNED BY		
	ISOLATION VALVE (FCV-78-64)	•	2	2-01-78		
9D	FUEL POOL FILTER DEMIN BYPASS			ALIGNED BY		
	VALVE (FCV-78-65)		2	2-01-78		
9E	FUEL POOL FILTER DEMIN OUTBOA	RD		ALIGNED BY		
	ISOLATION VALVE (FCV-78-67)		2	2-01-78		
10A	SECONDARY BKR FEEDING	•	2	ALIGNED BY		
	MAIN TURB TURNING GEAR MOTOR			2-01-47		
	FED FROM COMPT 9A	n				
11A	REACTOR WATER CLEANUP DEMIN			ALIGNED BY		
	HOLDING PUMP 2A	Þ	2 .	2-01-69		
11B	2-BKR-075-0002 CS PUMP 2A SUP	PR		ALIGNED BY		
	POOL SUCT VALVE BREAKER (GE-1		2	2-01-75		
11C	2-BKR-074-0057			1		
	RHR PSC ISOLATION VALVE			ALIGNED BY		
	FCV-74-57	,	2	2-01-74		
115	2-BKR-074-0061					
11E	RHR CONTAINMENT SPRAY VALVE			ALIGNED BY		
			2	2-0I-74		
	FCV-74-61		4	2-01-14		

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UNIT 0 0-01-57B

#### NOV 08 1995

ATTACHMENT 3E (Page 11 of 26)

	Ţ	JNIT 2	Date	
	•		Date _	<del></del>
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Control Bay - Div I, Electri	or MOV Board 2A ic Board Room 2A - 751 - 1 & 2)	El 621', R-	-14R
12A	2-BKR-063-0005A	***	···	· · · · · · · · · · · · · · · · · · ·
	2A SLC PUMP MOTOR HEATER	&		ALIGNED BY
	SUCTION LINE TRACE HEATER	BREAKER	2	2-01-63
12B	2-BKR-075-0011 CORE SPRAY	PUMP 2C		ALIGNED BY
	SUCTION VALVE FCV-75-11		2	2-01-75
12C	0-BKR-067-067-0021			
	EECW NORTH HDR UNIT 2 SEC	r	0	ALIGNED BY
	VLV FCV-67-21			0-01-67
12E	2-BKR-074-0058	•	•	
	RHR PSC SPRAY VALVE		•	ALIGNED BY
	FCV-74-58		2	2-01-74
13A	2-BKR-099-0002A			
	REACTOR PROTECTION SYSTEM	MG SET 2A	_	ALIGNED BY
			2	2-01-99
13B	2-BKR-075-0023 CS SYSTEM	I OUTBD		ALIGNED BY
	INJ VALVE BREAKER (GE-14-	11A)	. 2	2-01-75
13C	2-BKR-074-0060	<b>3</b>		
	RHR CONTAINMENT SPRAY VAL	VE '		ALIGNED BY
	FCV-74-60		2	2-01-74
14A	2-BKR-064-0070			-
	RHR PUMP 2C COOLER FAN			ALIGNED BY
			2	2-01-74
14B	2-BKR-075-0025 CORE SPRAY	I		ALIGNED BY
	INBOARD VALVE FCV-75-25		2	2-01-75
14E	2-BKR-075-0009 CS SYSTEM	I MIN		ALIGNED BY
	. FLOW VALVE BREAKER (GE-14	-68A)	2	2-01-75
15D	2-BKR-268-002A/15D			
	EMERGENCY FEEDER BREAKER	FROM CONNECTED		
	480V SHUTDOWN BOARD 2B	AND OPEN	0	/

UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 12 of 26)

	•		Date	
Breaker Number	Component . Description	Required Position	Unit	Initials 1st/IV
*	480V Reactor MC Control Bay - Div I, Electric Bo (2-45E751 -	ard Room 2A -	El 621', R	-14R
16A	MAIN STEAM LINE DRAIN VALVE (FCV-1-55)	,	2	ALIGNED BY 2-01-1
16C1	SECONDARY BKR FEEDING REAC BLDG EMERG LTG XFMR FED FROM COMPT 19C2	ои	. 2	/
16E	REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE (FCV-69-1)		2	ALIGNED BY 2-01-69
17A	DRYWELL BLOWER 2A-3		2	ALIGNED BY 2-01-70
17C	2-BKR-023-0034 RHR HEAT EXCHANGER 2A SERVICE WATER DISCHARGE VALVE (FCV-23-	34)	2	ALIGNED BY 0-OI-23
17E	HPCI STEAM SUPPLY LINE ISOLATION VALVE (FCV-73-2)		2	ALIGNED BY 2-01-73
18A	DRYWELL BLOWER 2A-4		2	ALIGNED BY 2-01-70
18C	2-BKR-023-0040 RHR HEAT EXCHANGER 2C SERVICE WATER DISCHARGE VALVE (FCV-23-	40)	2	ALIGNED BY 0-01-23
18E	2-BKR-075-0022 CS SYSTEM I TES VALVE BREAKER (GE-14-26A)	T	2 .	ALIGNED BY 2-01-75
19A	2-BKR-071-0059 RCIC TURB EXH SUPPR CHBR VAC RELIEF VALVE BREAKER		2	ALIGNED BY 2-01-71
19C1	PRIMARY ISOLATION BKR FEEDING COMPT 7A TURB BLDG EMERG LTG XFMR	ОИ	0	/

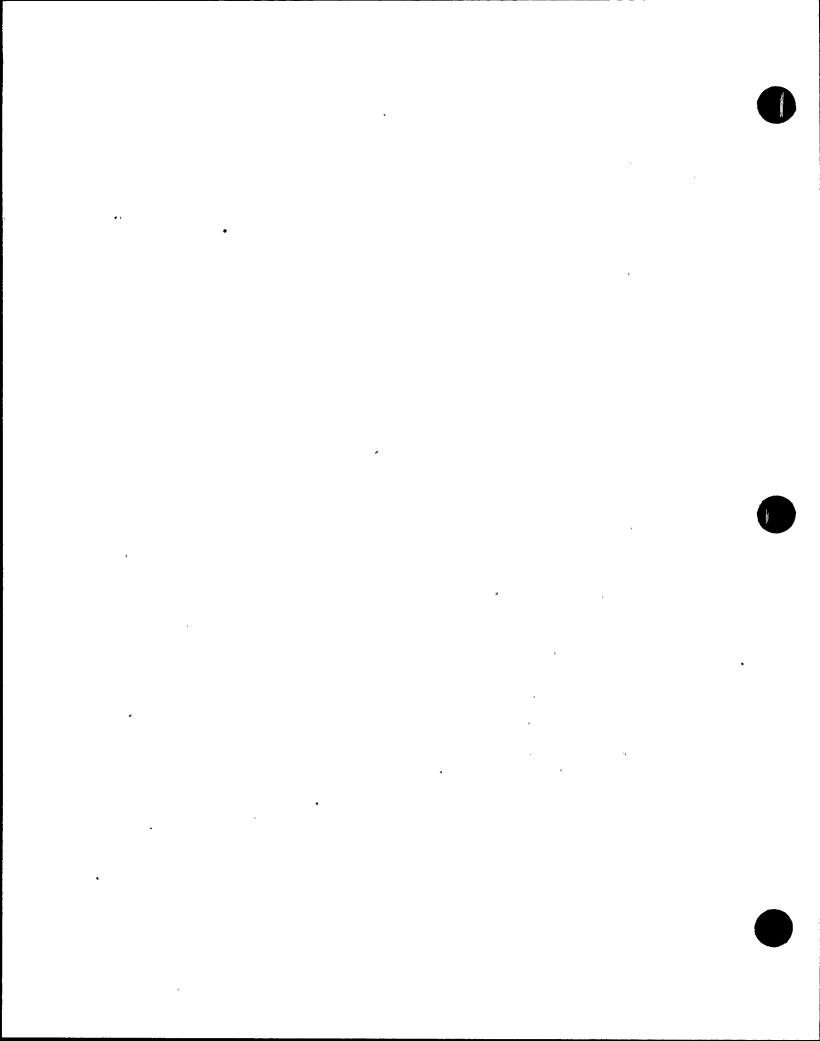
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UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 13 of 26)

			Date	<u> </u>
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Control Bay - Dtv I, Elec	actor MOV Board 2A tric Board Room 2A - 5E751 - 1 & 2)	El 621', R	-14R
19C2	PRIMARY ISOLATION BKR FEEDING COMPT 16C1 REAC BLDG EMER LTG XFMF	on S	2	<u>'/</u>
19C3	2-BKR-074-0062 PRIMARY ISOLATION BREAK RHR DISCH TO MAIN CNDR		2	ALIGNED BY
19C4	PRIMARY ISOLATION BKR FEEDING COMPT 1D TURB BRG LIFT PUMPS ASS	SY A	2	ALIGNED BY 2-01-47B
19C5	2-BKR-074-0059 RHR SYST TEST VLV 2-FCV-074-0059		2	ALIGNED BY 2-01-74
R9A	0-BKR-023-0082A RHRSW COMPT B SUMP PUME	? A	0	ALIGNED BY 0-01-23
R9B	0-BKR-023-0084A RHRSW COMPT D SUMP PUME	? A	0	ALIGNED BY 0-01-23
R9C1	250V SHTDN BD BATTERY F DUCT HEATER	ROOM	0	ALIGNED BY 0-01-31
R9C2	2-BKR-031-0163A 250V SD BD BATTERY ROOM EXHAUST FAN 2A	1	0	ALIGNED BY 0-01-31
R9E	250V SHTDN BD BATTERY I SUPPLY FAN 2A	ROOM	0	ALIGNED BY 0-01-31
R10F	2-BKR-076-0049 PRI CONTAINMENT ATMOSPH SYS ANALYZER SAMPLE RET		2	ALIGNED BY 2-01-76



UNIT 0 0-OI-57B ATTACHMENT 3E (Page 14 of 26)

#### NOV 08 1995

	•		Date	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	Control Bay -Div II, Electric	r MOV Board 2B Board Room 2B - 51 - 3 & 4)	El 593', R	-14R
1A	DRYWELL FLOOR DRAIN SUMP PUMP 2B		2	ALIGNED BY 0-01-77B
1B	REACTOR BLDG FLOOR DRAIN SUMP PUMP 2B		2	ALIGNED BY 0-01-77B
1C	2-BKR-071-0002 RCIC STM LII ISOL VALVE BREAKER (GE-13-		2	ALIGNED BY 2-01-71
1E	2-BKR-075-0050 CS SYSTEM I VALVE BREAKER (GE-14-26B)	I TEST	2	ALIGNED BY 2-01-75
2D	2-BKR-268-002B/02D NORMAL FEEDER BREAKER FROM 480V SHUTDOWN BD 2B .	CLOSED	0	/
3A	2-BKR-074-0066 RHR OUTBOARD VALVE FCV-74-66		2	ALIGNED BY 2-01-74
3E	2-BKR-075-0039 CS PUMP 2D POOL SUCT VALVE BREAKER (G		2	ALIGNED BY 2-01-75
4A	DRYWELL BLOWER 2B-3		2	ALIGNED BY 2-01-70
4C	BATTERY CHARGER SB-D		0	ALIGNED BY 0-01-57D
4D	2-BKR-075-0030 CS PUMP 2B - POOL SUCT VALVE BREAKER (G		2	ALIGNED BY 2-01-75
4E	2-BKR-075-0037 CS SYSTEM I FLOW VALVE BREAKER (GE-14-		2	ALIGNED BY 2-01-75

UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 15 of 26)

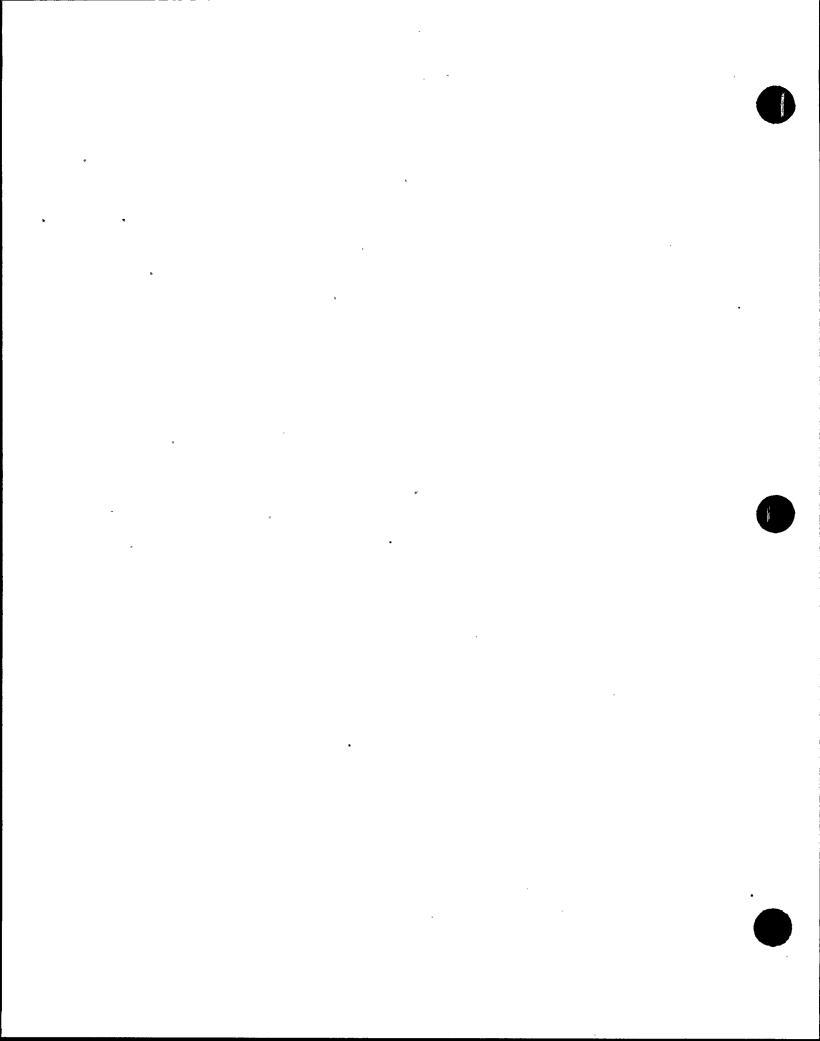
•			. Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV		
	480V Reactor MC Control Bay - Div II, Electric Bo (2-45E751 -	oard Room 2B -	El 593', F	R-14R		
5A,	2-BKR-070-0048 CLOSED COOLING WATER SECTIONALIZING VALVE FCV-70-48		2	ALIGNED BY 2-01-70		
5C1	2-BKR-252-002B/5C1 UNIT PREFERRED AC REGULATING TRANSFORMER TUP-2	ON	2	· /		
5E	2-BKR-074-0024 RHR PUMP 2B SUCTION VALVE FCV-74-24		2	ALIGNED BY 2-01-74		
6A ·	2-BKR-070-0047 CLOSED COOLING WATER ISOLATION VALVE FCV-70-47	, .	2	ALIGNED BY 2-01-70		
6C1	2-BKR-251-002B/6C1 ANNUNCIATOR BATTERY CHARGER SE	PARE	0	ALIGNED BY 0-OI-57D		
6C2	2-BKR-074-0025 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-25	,	2	ALIGNED BY 2-01-74		
6E	2-BKR-074-0035 RHR PUMP 2D SUCTION VALVE FCV-74-35		2	ALIGNED BY 2-01-74		

UNIT 0 0-01-57B

ATTACHMENT 3E (Page 16 of 26)

NOV 08 1995

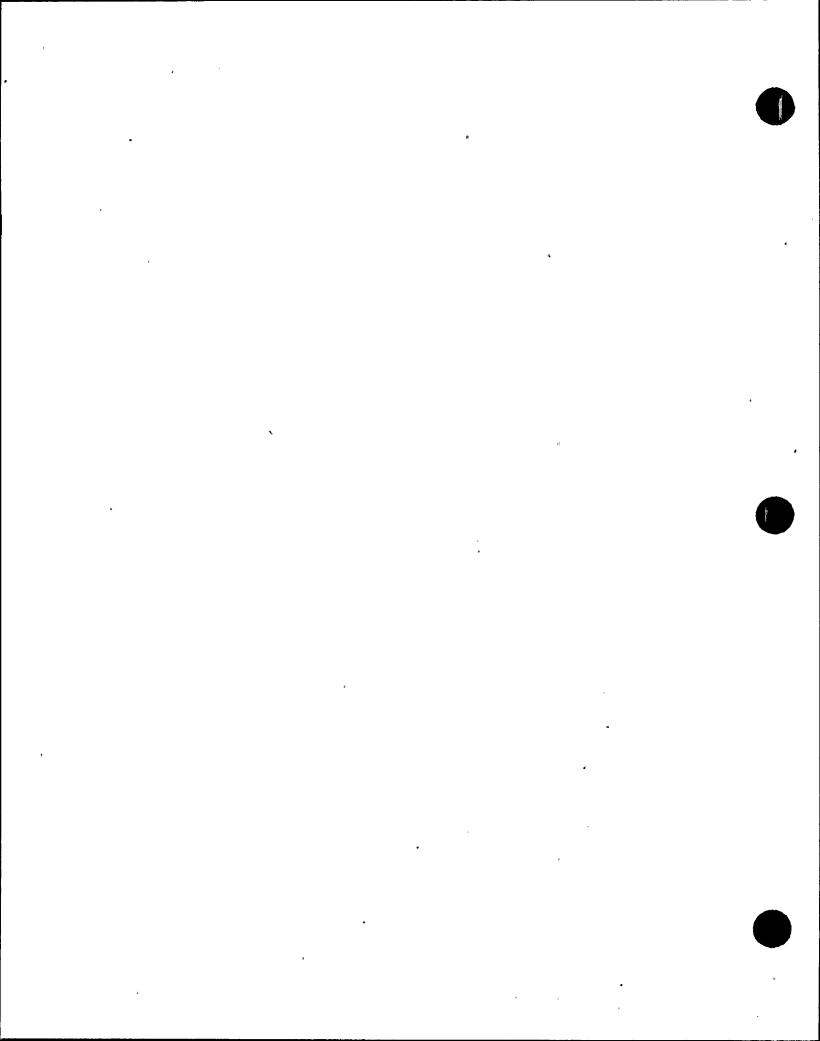
	Date				
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV	
	,				
	Control Bay - Div II, Electric	mov Board 2B = Board Room 2B = 1 - 3 & 4)	El 593', F	R-14R	
7A	2-BKR-074-0063 RHR DISCHARGE TO RADWASTE V	ZALVE	-	ALIGNED BY	
	FCV-74-63		2	2-01-74	
7B	2-BKR-064-0069			ALIGNED BY	
	RHR PUMP 2B COOLER FAN		2	2-01-74	
7C	2-BKR-074-0036				
	RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-36	N	2	ALIGNED BY 2-01-74	
7E	2-BKR-023-0046				
i	RHR HEAT EXCHANGER 2B SERVI WATER DISCHARGE VALVE (FCV-		2	ALIGNED BY 0-01-23	



NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3E (Page 17 of 26)

Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
(	480V Reactor MOV Control Bay - Div II, Electric Boar (2-45E751 - 3	d Room 2B -	El 593', F	R-14R
8A1	SDBR ACU/B EL 604.0 SDBR C&D		0	ALIGNED BY 0-01-31
8A2 	PRIMARY ISOLATION BKR FEEDING COMPT 11b RWCU DEMIN HOLDING PMP 2B		, 2	ALIGNED BY 2-01-69
8B	2-BKR-064-0073 CORE SPRAY NE ROOM COOLER FAN		2	ALIGNED BY 2-01-75
8C	2-BKR-074-0046 RHR DISCHARGE TIE VALVE FCV-74-46		2	ALIGNED BY 2-01-74
8E	2-BKR-023-0052 RHR HEAT EXCHANGER 2D SERVICE WATER DISCHARGE VALVE (FCV-23-52	2)	2	ALIGNED BY 0-01-23
<b>9A</b> ,	2-BKR-063-005B 2B SLC PUMP MOTOR HEATER & SUCTION LINE TRAC HEATER BREAKER	E	2	ALIGNED BY 2-01-63
9B2	FUEL POOL FILTER DEMIN INBOARD ISOLATION VALVE (FCV-78-63)		2	ALIGNED BY 2-01-78
9D	FUEL POOL FILTER DEMIN BYPASS VALVE (FCV-78-66)		2	ALIGNED BY 2-01-78
9E	FUEL POOL FILTER DEMIN INBOARD - ISOLATION VALVE (FCV-78-68)		2	ALIGNED BY 2-01-78
10B	FUTURE			



UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 18 of 26)

•	•		Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Boar Control Bay - Div II, Electric Board Ro (3-45E751 - 3 & 4	om 2B - El	593', R-	14R
10C	0-BKR-023-0082B RHRSW PUMP COMPT B SUMP PUMP B		0	ALIGNED BY 0-01-23
10D	0-BKR-023-0084B RHRSW PUMP COMPT D SUMP PUMP B		0	ALIGNED BY 0-01-23
10E	2-BKR-074-0075 RHR CONTAINMENT SPRAY VALVE FCV-74-75		2	ALIGNED BY 2-01-74
11A	DRYWELL CONTROL AIR COMPRESSOR 2B & DRYER 2B		2	ALIGNED BY 2-01-32A
11B	SECONDARY BKR FEEDING RWCU DEMIN HOLDING PMP 2B FED FROM COMPT 8A2		2	ALIGNED BY 2-01-69
11C	RHR LOOP II MODE SELECTOR SWITCH FOR 2-FCV-74-24 & 35		2	ALIGNED BY 2-01-74
11D	2-BKR-075-0076 PSC WATER HEAD TANK PUMP 2B MOTOR BREAKER		2	ALIGNED BY 2-01-75
11E	2-BKR-074-0074 RHR PSC SPRAY VALVE FCV-74-72	•	2	ALIGNED BY 2-01-74
12A	2-BKR-074-0106 RHR SYSTEM IÍ FLUSH VALVE FCV-74-106		2	ALIGNED BY 2-01-74
12B	2BKR-064-0071 RHR PUMP 2D COOLER FAN		2	ALIGNED BY 2-01-74
13A	HPCI TURBINE EXHAUST RELIEF VALVE (FCV-73-64)		2	ALIGNED BY 2-01-73
13C1	. REACTOR BLDG EMERG LTG XFMR	ON	1	/
13C2	2-BKR-074-0073 RHR SYSTEM II TEST VLV FCV-74-73		2	ALIGNED BY 2-01-74

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UNIT 0 0-01-57B ATTACHMENT 3E

#### NOV 08 1995

(Page 19 of 26)

	. Date _			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Control Bay - Div II, Electric Boar (2-45E751 - 3	rd Room 2B -	El 593', F	:-14R
13E .	2-BKR-074-0071 RHR PSC ISOLATION VALVE FCV-74-71		2	ALIGNED BY 2-01-74
14A	0-BKR-067-0022 EECW SOUTH HDR UNIT 2 SECT VLV FCV-67-22			ALIGNED BY 0-01-67
14C1	2-BKR-099-0002B ALIGNED BY REACTOR PROTECTION SYSTEM MG SET	· 2B	2	2-01-99
14D	2-BKR-078-0061 FUEL POOL MAKEUP FROM RHR INBOARD VALVE FCV-78-61		2	ALIGNED BY 2-01-78
14E	2-BKR-074-0074 RHR CONTAINMENT SPRAY VALVE FCV-74-74	,	2	ALIGNED BY 2-01-74
15A	DRYWELL BLOWER 2B-4		2	ALIGNED BY 2-01-70
15C	0-BKR-076-0011 CONTAINMENT INERTING SYSTEM MAKEUP VAPORIZER POWER OUTLETS & VACUUM PUMP		2	ALIGNED BY 2-01-76
15D	2-BKR-075-0051 CS SYSTEM II OUTF INJ VALVE BREAKER (GE-14-11B)	BD	2	ALIGNED BY 2-01-75
15E	2-BKR-075-0053 CORE SPRAY II 'INBD VALVE FCV-75-53	•	2	ALIGNED BY 2-01-75
16D	2-BKR-268-002B/16D - EMERGENCY FEEDER BREAKER FROM 480V SHUTDOWN BD 2A	CONNECTED AND OPEN	2	/
17A	0-BKR-268-002B/17A SPARE			

NOV 08 1995

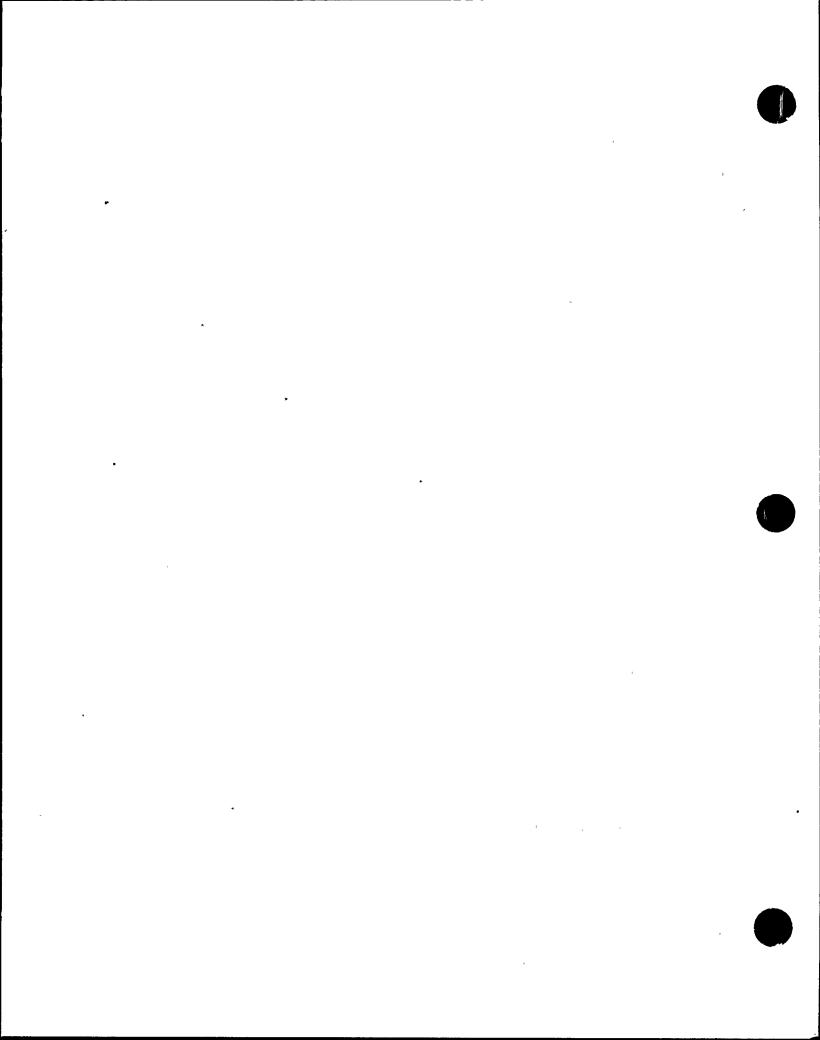
UNIT 0 0-01-57B ATTACHMENT 3E (Page 20 of 26)

		•	Date			
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV		
,	480V Reactor MO Control Bay - Div II, Electric Bo (2-45E751 -	ard Room 2B -	El 593', F	R-14R		
17B	REACTOR WATER CLEANUP SYSTEM ISOLATION VALVE (FCV-69-12)		2	ALIGNED BY 2-01-69		
17D	2-BKR-074-0098 RHR PUMP B SUCTION CROSSTIE VALVE FCV-74-98		·2	ALIGNED BY 2-OI-74		
17E	1-BKR-074-0099 RHR PUMP D SUCTION CROSSTIE VALVE FCV-74-99		1	CALIGNED BY 1-01-74		
18A .	DRYWELL EQUIPMENT DRAIN SUMP PUMP 2B		2	ALIGNED BY 0-01-77A		
18B	REACTOR BLDG EQUIPMENT DRAIN SUMP PUMP 2B	r	2	ALIGNED BY 2-01-77A		
18D	HPCI BYPASS VALVE (FCV-73-81)		2	ALIGNED BY 2-01-73		
18E	TURBINE BEARING ASSY B LIFT PUMPS 7&10 (2B1) AND 8&9 (2B2)		2	ALIGNED BY 2-01-47B		
19A '	3-BKR-074-0096 RHR PUMP A SUCTION XTIE (TO U-2 VLV FCV-74-96 (M010-182)	2)	3	ALIGNED BY 3-01-74		
19C	2-BKR-074-0097 RHR PUMP C SUCTION CROSSTIE VALVE FCV-74-97		2	ALIGNED BY 2-01-74		

NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3E (Page 21 of 26)

	•		Date	
Breaker Number	Component Description	Required Position	Unit	· Initials lst/IV
	480V Reactor Control Bay - Div II, Electric (2-45E751	Board Room 2B -	El 593', F	R-14R
R9A	SECONDARY BKR FEEDING 250V SD BD BAT RM EXH FAN 2B FED FROM COMPT R9D1		0	ALIGNED BY 0-01-31
R9B	2-BKR-031-0164BB SECONDARY BKR FEEDING 250V SD BD BAT RM SUPPLY FAN 2B FED FROM COMPT R9D2		0	ALIGNED BY 0-01-31
R9D1	PRIMARY ISOLATION BKR FEEDING COMPT R9A 250V SD BD BAT RM EXH FAN 2B		0	ALIGNED BY 0-01-31
R9D2	PRIMARY ISOLATION BKR FEEDING COMPT R9B 250V SD BD BAT RM SUPPLY FAN 2B		0	ALIGNED BY 0-01-31
R10F	2-BKR-076-0059 CTMT ATM MON SYS ANALYZER SAMPLE RETURN PUMP	ę	2	ALIGNED BY 2-01-76

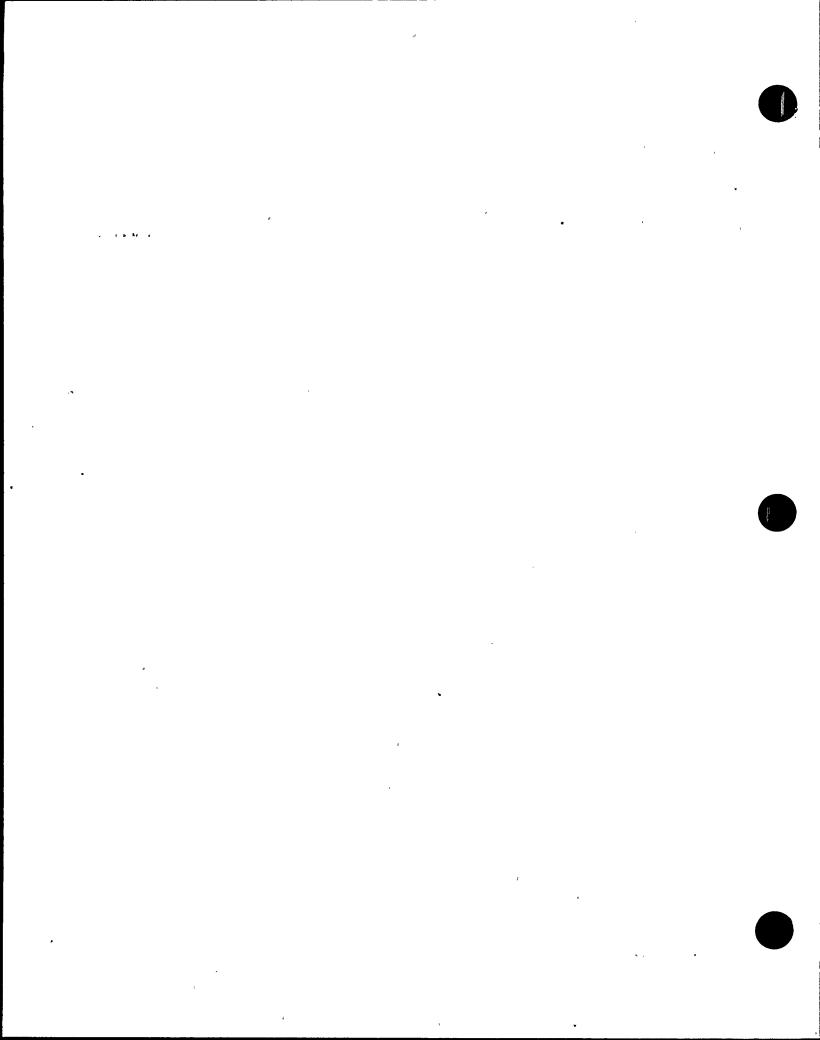


NOV 08 1995

ATTACHMENT 3E (Page 22 of 26)

,			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
1	480V Reactor MOV Reactor Bldg - El (2-45E751 -	565', R-13T		
1A .	DRYWELL BLOWER 2A-5		2	ALIGNED BY 2-01-70
10	2-BKR-111-002C/01C CRD TEST HOIST EQUIPMENT HANDLING PLATFORM OUTLETS	OFF(2)	2 .	/
1D	RECIRCULATION MG SET OIL PUMP 2A-3		2	ALIGNED BY 2-01-68
2D	2-BKR-268-002C/02D EMERGENCY FEEDER BREAKER FROM 480V SHUTDOWN BD 2A	CONNECTED AND OPEN	2	/
3C	CRD RETURN LINE ISOLATION VALVE (FCV-85-50)		2	ALIGNED BY 2-01-85
3E .	CRD WATER PRESSURE CONTROL VALVE (PCV-85-23)		2	ALIGNED BY 2-01-85
4A	RBCCW PUMP SEAL WATER COLLECTION AND TRANSFER PUMP	М	2	ALIGNED BY 2-01-70
4B	REACTOR BLDG EQUIP DRAIN SUMP PUMP 2A		2	ALIGNED BY 0-01-77A
4E	CRD COOLING WATER PRESSURE CONTROL VALVE (PCV-85-27)		2	ALIGNED BY 2-01-85
5B	BUS HT EXC ALTERNATER CLR & H2 CLG WTR SHUTOFF MOV (FCV-24-25)	)	2	ALIGNED BY 2-01-24
5C	CLOSED COOLING WATER SPARE PUMI SUCTION VALVE B (FCV-70-67)	?	0	ALIGNED BY 2-01-70

<sup>(2)</sup> This breaker shall not be CLOSED unless Unit 2 is in cold shutdown (DCN T37517A).

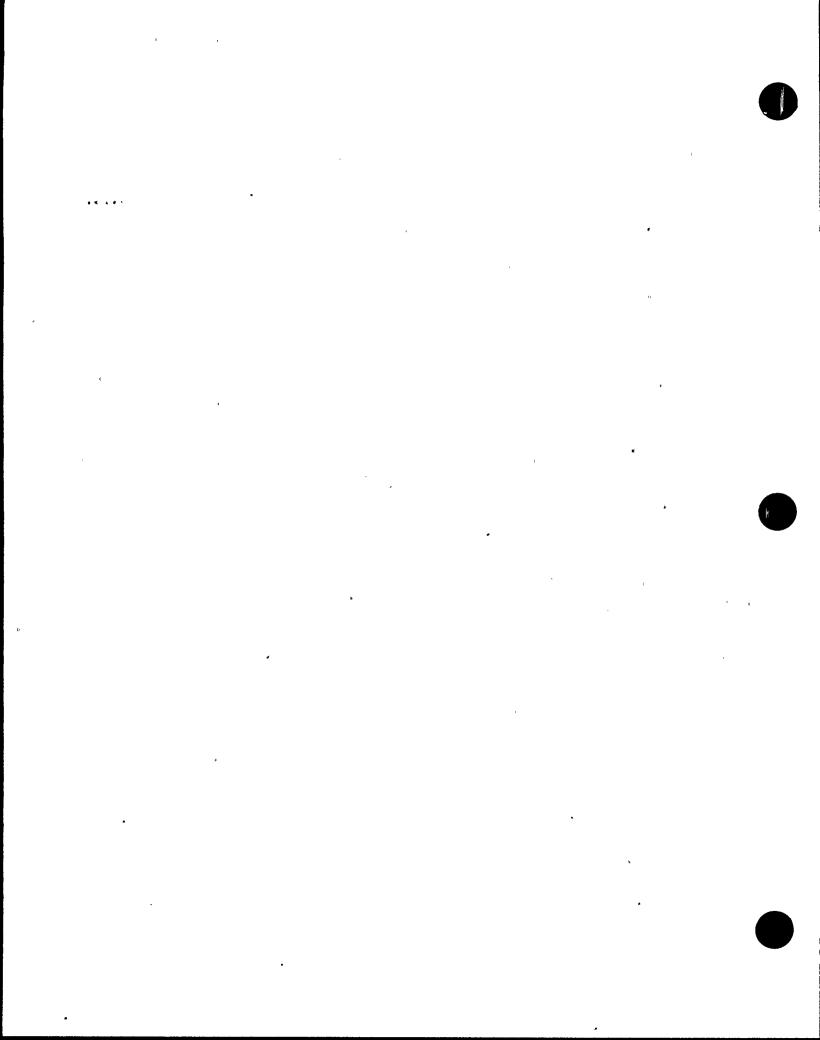


NOV 08 1995

UNIT 0 0-OI-57B ATTACHMENT 3E (Page 23 of 26)

0-01-57B

			Date ,	·
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Reactor Bldg - El . (2-45E751 - S	565', R-13T		
5E	CRD PUMP 1A SUCTION ISOLATION SHUTOFF VALVE FCV-85-56		2	ALIGNED BY
6B	STATOR LIQUID COOLING WATER SHUTOFF VALVE FCV-24-41		2	' ALIGNED BY 2-01-24
6C *	CLOSED COOLING WATER SPARE PUMP DISCHARGE VALVE A (FCV-70-68)		0	ALIGNED BY 2-01-70
6E	2-BKR-001-0058 MAIN STEAM LINE DRAIN VALVE FCV-1-58 (MO 2-79)		2	ALIGNED BY 2-01-1
7A	REACTOR BLDG FLOOR DRAIN SUMP PUMP 2A		2	ALIGNED BY
7B	PRECOOLER LIQUID CLG SHUTOFF VALVE FCV-24-57	• 1	2	ALIGNED BY 2-01-24
7C	REACTOR WATER CLEANUP BLOWDOWN VALVE (FCV-69-16)		2	ALIGNED BY 2-01-69
7E	REACTOR WTR CLEANUP FLT & DEMIN SYSTEM BYPASS VLV (FCV-69-8)		2	ALIGNED BY
8B	TURBINE OIL & EHC FLUID CLG WTR SHUTOFF VLV FCV-24-65		2	ALIGNED BY 2-01-24
8C	REACTOR WATER CLEANUP DRAIN TO RADWASTE VALVE (FCV-69-17)		. 2	ALIGNED BY 2-01-69
8E	REACTOR WATER CLEANUP RESTRICTI ORF BYPASS VALVE (PCV-69-14)	NG	2	ALIGNED BY 2-01-69



UNIT 0 0-OI-57B ATTACHMENT 3E (Page 24 of 26)

#### NOV 08 1995

	•		Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
al .	480V Reactor MOV Reactor Bldg - El . (2-45E751 -	565', R-13T		,,.u <b>q</b>
9B	2-BKR-001-005.7 MAIN STEAM LINE DRAIN VALVE FCV-1-57 (MO 2-78)	· · · · · ·	2	ALIGNED BY
9E	2-BKR-001-0059 MAIN STEAM LINE DRAIN VALVE CONDENSER INLET FCV-1-59		2	ALIGNED BY 2-01-1
10D	2-BKR-268-002C/10D NORMAL FEEDER BREAKER FROM 480V SHUTDOWN BD 2B	CLOSED	2	/
11A	DRYWELL BLOWER 2B-5	•	2	ALIGNED BY
110	CRD DRIVE WATER TRANSFER VALVE (FCV-85-8B)		2	ALIGNED BY 2-01-85
R6A	RECIRCULATION HEADER EQUALIZER VALVE (FCV-68-33)		2	ALIGNED BY 2-01-68
R6E	RECIRCULATION PUMP 2B SUCTION VALVE (FCV-68-77)		2	ALIGNED BY 2-01-68
R7B	2-BKR-268-002C/R7B TEMP EMER MAINTENANCE FEED TO 480V RMOV BD 2D	OFF	2	/
R8B	RECIRCULATION PUMP 2A SUCTION VALVE (FCV-68-1)		2	ALIGNED BY 2-01-68
R8E	RECIRCULATION HEADER EQUALIZER VALVE (FCV-68-35)		2	ALIGNED BY 2-01-68
R9B	- 2-BKR-268-002C/R9B TEMP EMER MAINTENANCE FEED TO 480V RMOV BD 2E	OFF	2	/
R11A	2-BKR-075-0075 PSC WATER HEAD TANK PUMP 2A MOTOR BREAKER	,	2	ALIGNED BY 2-01-75 -01-57B

NOV 08 1995

UNIT 0 0-01-57B ATTACHMENT 3E

(Page 25 of 26)

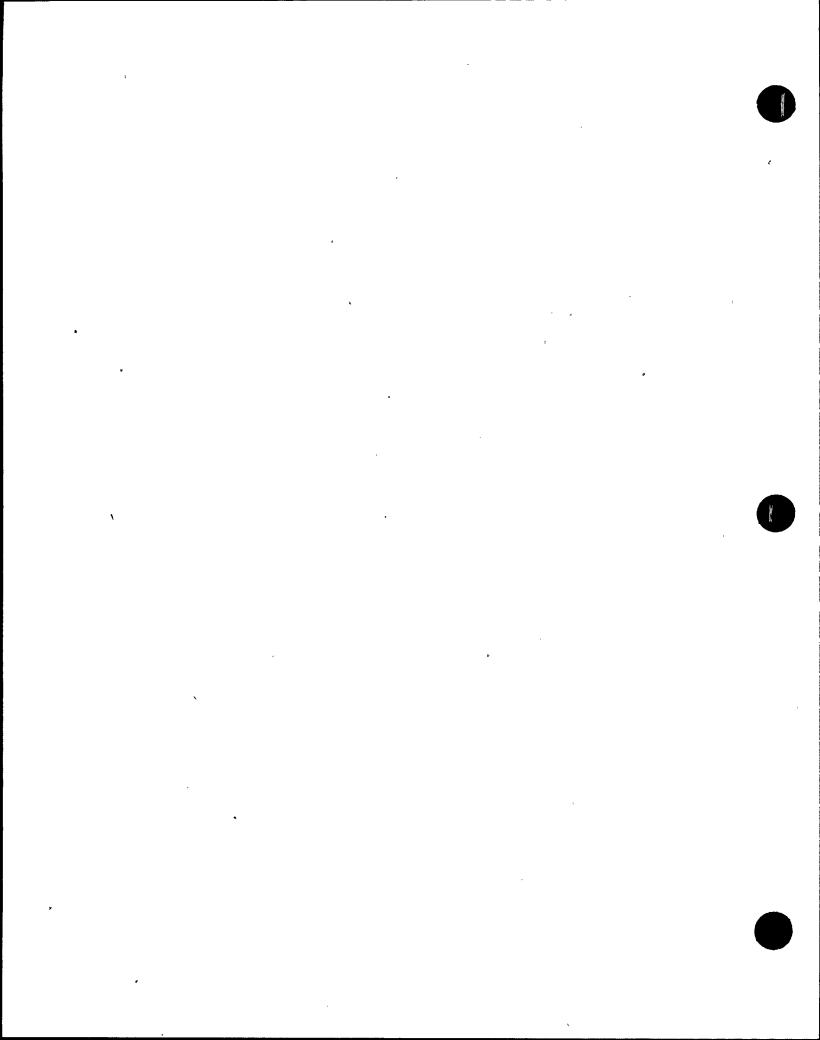
			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
,	480V Reactor MOV Bo Reactor Bldg - EJ (2-45E751	593', R-T11		
1D	2-BKR-268-002D/01D NORMAL FEEDER BREAKER FROM MG SET 2DN	CLOSED	2	/
2C	2-BKR-074-0053 RHR SYS I INBD INJECTION VLV FCV-74-53		2	ALIGNED BY 2-01-74
3E	RECIRCULATION PUMP 2B DISCHARG VALVE (FCV-68-79)	E	2	ALIGNED BY 2-01-68
4D .	2-BKR-268-002D/04D EMERGENCY SUPPLY BREAKER FROM MG SET 2DA	CONNECTED AND OPEN	2	/
5A	2-BKR-268-002D/05A EMER MAINTENANCE FEED FOR 480V RMOV BD 2D	OFF	2 '	/
5C	FUTURE			
5E	2-BKR-074-0007 RHR SYSTEM I MINIMUM FLOW VLV		2	ALIGNED BY 2-01-74

UNIT 0 0-01-57B

NOV 08 1995

ATTACHMENT 3E (Page 26 of 26)

			Date _	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Boar Reactor Bldg - El (2-45E751 -	621', R-U8	I	•
1D	2-BKR-268-002E/01D NORMAL SUPPLY BREAKER FROM MG SET 2EN	CLOSED	2	/
2C	2-BKR-074-0067 RHR SYS II INBD INJECTION VLV FCV-74-67		2	ALIGNED BY 2-01-74
3E	RECIRCULATION PUMP 2A DISCHARGE VALVE (FCV-68-3)		2 '	ALIGNED BY 2-0I-68
<b>4A</b>	2-BKR-268-002E/04A EMER MAINTENANCE FEED FOR 480V RMOV BD 2E	OFF .	2	/
4C	2-BKR-26B-0002E/4C SPARE			
4E	2-BKR-074-0030 RHR SYS II MINIMUM FLOW VLV		2	ALIGNED BY 2-01-74
5D	2-BKR-268-002E/05D EMERGENCY SUPPLY BREAKER FROM MG SET 2EA	CONNECTED AND OPEN	2 .	/



### UNIT 3 480V AC BOARDS

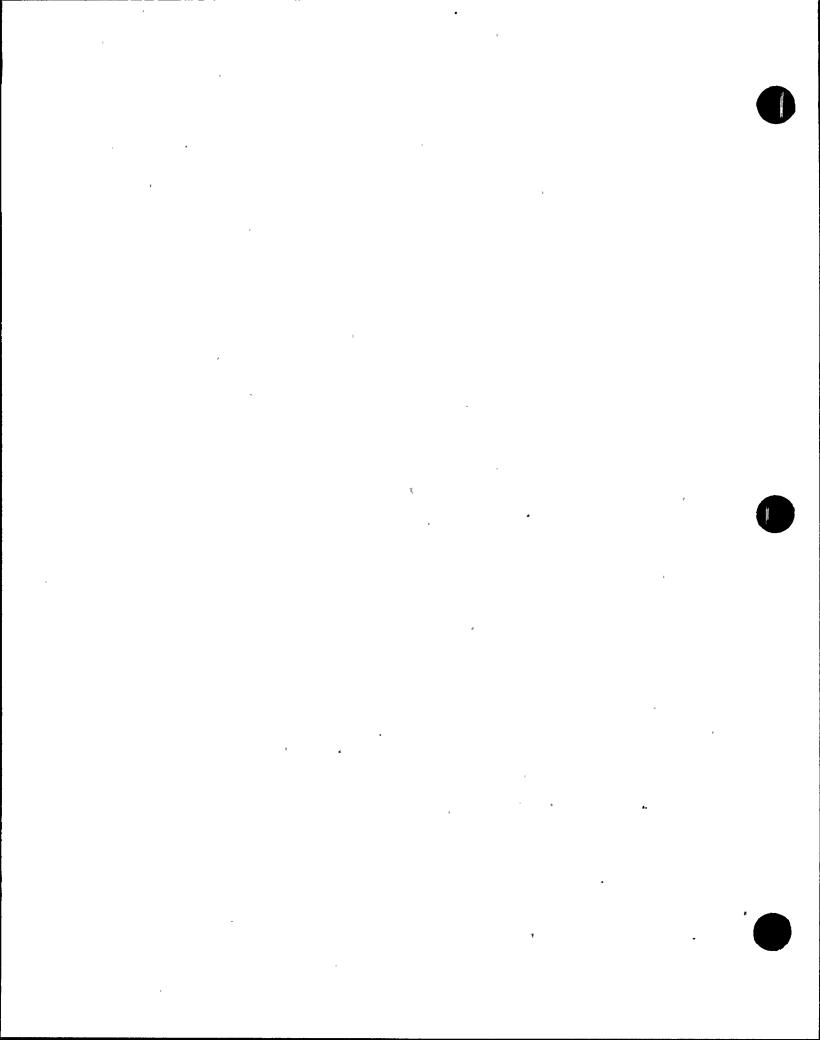
#### NOV 17 1995

ATTACHMENT 3F (Page 3 of 26)

	Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown Bd Control Bay - Div I - El (3-45E749 - 5	621', R-20R	,	
10	NORMAL FEEDER FROM 4KV S/D BD 3EA	CLOSED	. 0	
2B	3-BKR-231-0003A/2B INSTRUMENT & CONTROL BUS A TRANSFORMER TIC 3A	CLOSED	0	
2C	3-BKR-070-0081 DRYWELL BLOWER 3A-1		3	ALIGNED BY 3-01-70
2D	3-BKR-070-0082 DRYWELL BLOWER 3A-2		3	ALIGNED BY 3-01-70
3A	NORMAL FEEDER 480V REAC MOV BD 3A	CLOSED	0	/
3B	EMERGENCY FEEDER 480V REAC MOV BD 3B	OPEN(2)	0	/
3C	EMERGENCY FEEDER 480V REAC MOV BD 3C	OPEN(2)	0	/
5A	NORMAL FEEDER 480V DIESEL AUXILIARY BOARD 3EA EMERGENCY FEEDER 480V DIESEL AUX BOARD 3EB	CLOSED	0	/
5B	MG SET 3DN FOR NORM FDR 480V REAC MOV BD 3D	CLOSED/(1) CONNECTED	3	/

<sup>(1)</sup> Closed if MG set in service, circle position selected.

<sup>(2)</sup> This breaker shall remain OPEN for Appendix R requirements DCN T37517.



#### NOV 17 1995

ATTACHMENT 3F (Page 4 of 26)

		Date _		<u> </u>
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown Control Bay - Div I - I (45N749 - 5	El 621', R-20R		
5C	3-BKR-096-0017 RECIRCULATION MG SET OIL PUMP 3A-1		ALIGNED	BY 3-01-68
5D	3-BKR-098-0018 RECIRCULATION MG SET OIL PUMP 3B-1	•	3	ALIGNED BY 3-01-68
6A	3-BKR-047-0011 TURNING GEAR OIL PUMP		3	ALIGNED BY 3-01-47B
6B	3-BKR-070-0005 CLOSED COOLING WATER PUMP 3A		3	ALIGNED BY 3-01-70
6C	3-BKR-069-0004A RWCU RECIRCULATION PUMP 3A		3	ALIGNED BY 3-01-69
6D	3-BKR-248-0003A/6D 250V BATTERY CHARGER 3	•	0	ALIGNED BY 0-01-57D
7A .	MG SET 3EA FOR EMERG FDR 480V REAC MOV BD 3E	CLOSED/ CONNECTED(1)	3	/
7B	3-BKR-063-0006A 3A SLC PUMP MOTOR BREAKER	•	3	ALIGNED BY 3-01-63
7C	3-BKR-078-0010 FUEL POOL COOLING PUMP 3A		3	ALIGNED BY 3-01-78
7D	UNIT PREFERRED MG SET 3	CLOSED	3	/
8C	EMERGENCY FEEDER FROM 4KV S/D BD 3EB	CONNECTED AND OPEN	0	/

<sup>(1)</sup> Closed if MG set in service, circle position selected.

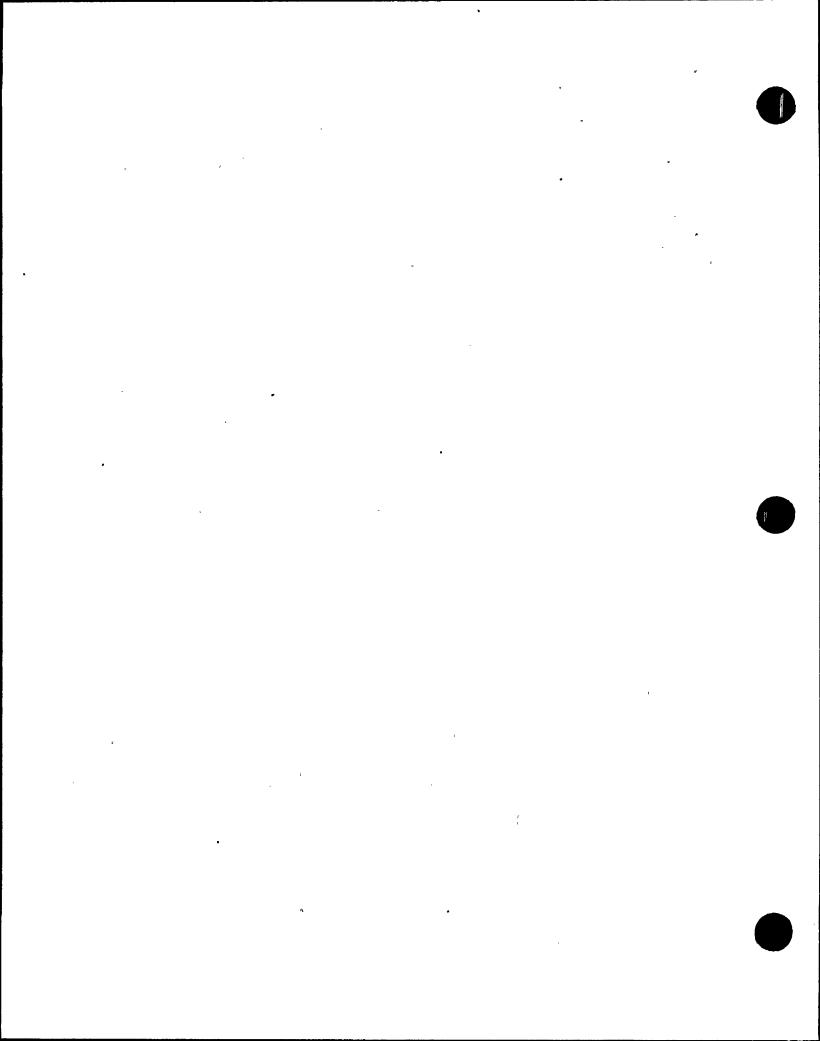
#### NOV 17 1995

ATTACHMENT 3F (Page 5 of 26)

•	. Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown Bo Control Bay - Div II - El (3-45E749 - 6	621', R-21R		
10	NORMAL FEEDER FROM 4KV SD BD 3EC	CLOSED	0 .	/
2A	MG SET 3EN FOR NORM FDR 480V REAC MOV BD 3E	CLOSED CONNECTED(1)	3	/
2B	EMERGENCY FEEDER 480V COND DEMIN BD 3	CLOSED	3	/
2C	3-BKR-070-0086 DRYWELL BLOWER 3B-1		3	ALIGNED BY 3-01-70
2D	3-BKR-070-0087 DRYWELL BLOWER 3B-2	•	3	ALIGNED BY 3-01-70
3A	EMERGENCY FEEDER 480V REAC MOV BD 3A	OPEN(2)	0	/
3B	3-BKR-231-0003B/3B NORMAL FEEDER 480V REAC MOV BD 3B	CLOSED	0	/
3C	3-BKR-231-0003B/3C NORMAL FEEDER 480V REAC MOV BD 3C	CLOSED	0	/
5A	3-BKR-231-003B/5A NOR FDR 480V DIESEL AUX BD 3EB EMER FDR 480V DIESEL AUX BD 3EA	CLOSED	0	/
5B	3-BKR-231-0003B/5B INSTRUMENT AND CONTROL BUS B TRANSFORMER TIC3B	CLOSED	3	·/

<sup>(1)</sup> Close if MG set in service, circle position selected.

<sup>(2)</sup> This breaker shall remain OPEN for Appendix R requirements DCN T37517.



#### NOV 17 1995

ATTACHMENT 3F (Page 6 of 26)

	•	Date		
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Shutdown Bd Control Bay - Div II - El (3-45E749 - 6)	621', R-21R		
5C	3-BKR-096-0019 RECIRCULATION MG SET OIL PUMP 3A-2			ALIGNED BY 3 3-01-68
5D	3-BKR-096-0020 RECIRCULATION MG SET OIL PUMP 3B-2			ALIGNED BY 3 3-01-68
бА	RAW COOLING WATER BOOSTER PUMP 3A		3	ALIGNED BY 3-01-24
6B	3-BKR-070-0008 CLOSED COOLING WATER PUMP 3B	•	3	ALIGNED BY 3-01-70
6C	3-BKR-069-0004B RWCU RECIRCULATION PUMP 3B		3	ALIGNED BY 3-01-69
.ed	3-BKR-248-0003B/6D 250V BATTERY CHARGER 4		0	ALIGNED BY 0-01-57D
7A	MG SET 3DA FOR EMER FDR 480V REAC MOV BD 3D	CLOSED/ CONNECTED(1)	3	/
7B	3-BKR-063-0006B 3B SLC PUMP MOTOR BREAKER		3	ALIGNED BY 3-01-63
7C	3-BKR-078-0015 FUEL POOL COOLING PUMP 3B		3	ALIGNED BY 3-01-78
7D	3-BKR-231-0003B/7D ALTERNATE FEEDER 480V HVAC BD B	OPEN (2)	0	
8C	EMERGENCY FEEDER FROM XFMR	CONNECTED AND OPEN	0	/

<sup>(1)</sup> Closed if MG set in service, circle position selected.

<sup>(2)</sup> This breaker shall remain OPEN for Appendix R requirements DCN T37517.

UNIT 0 0-01-57B

#### NOV 17 1995

ATTACHMENT 3F (Page 7 of 26)

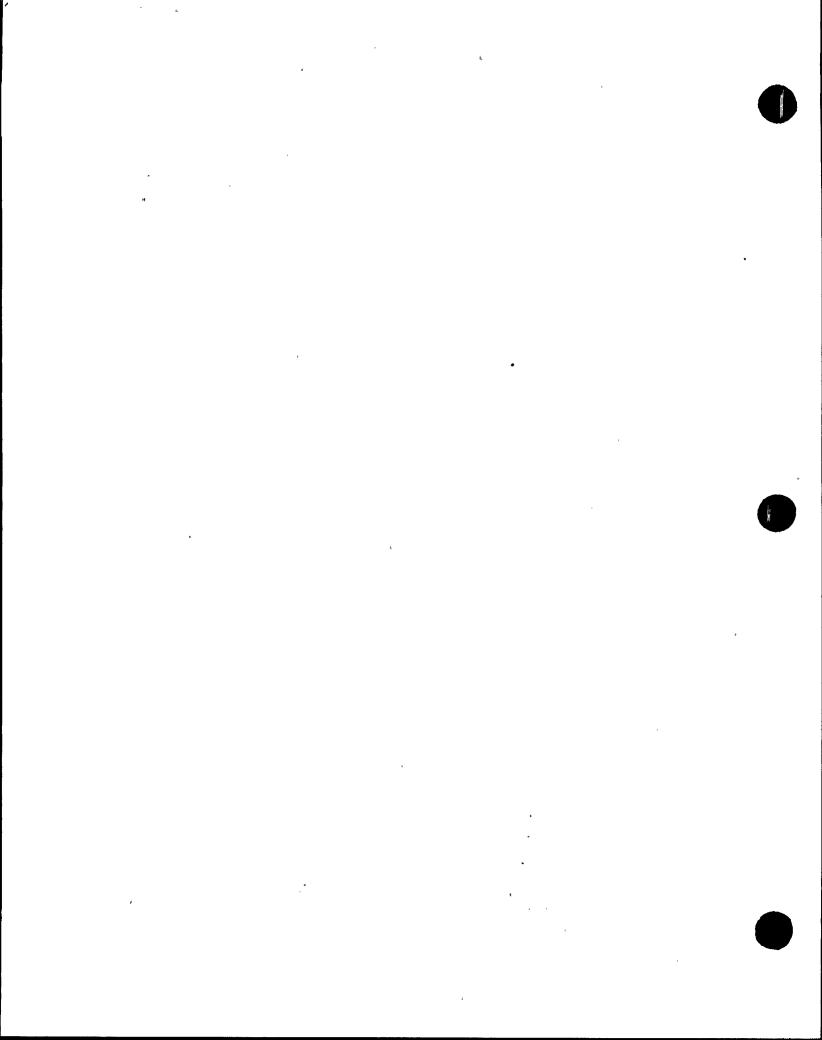
		Dat	e	
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Shutdown MOV Control Bay - El 62 (3-45E751 - 1	1', R-21Q	,	
1A	SHUTDOWN BOARD ROOM EXHAUST FAN 3A		0	ALIGNED BY 0-01-31
1D	3-BKR-047-0003A/1D TURB BRG LIFT PMPS 3&4, 2&5, 1&6		3	ALIGNED BY 3-OI-47B
2B	RHR OUTBOARD VALVE FCV-74-52 (MO 10-154A)		3	ALIGNED BY 3-01-74
3D .	NORMAL SUPPLY BREAKER	CLOSED	0	/
4A	3-BKR-064-0068 RHR PUMP 3A COOLER FAN		3	ALIGNED BY 3-01-74
4B .	3-BKR-078-0062 FUEL POOL MAKEUP FROM RHR OUTBD VLV FCV-78-62		3	ALIGNED BY 3-01-78
4C	3-BKR-074-0001 RHR PUMP 3A SUCTION VALVE FCV-74-1 (M010-13A)		3	ALIGNED BY 3-01-74
4E	DRYWELL EQUIPMENT DRAIN SUMP PUMP 3A		3	ALIGNED BY 0-01-77A
5B	3-BKR-078-0067 FUEL POOL FILTER DEMIN OUTLET ISO VLV FCV-78-67	Ĺ	3	ALIGNED BY 3-01-78
5C	3-BKR-074-0012 RHR PUMP 3C SUCTION VALVE FCV-74-12 (M010-13C)	4	3	ALIGNED BY 3-01-74
5E	DRYWELL FLOOR DRAIN SUMP PUMP 3A	•	3	ALIGNED BY 0-01-77B

UNIT 0 0-01-57B

#### NOV 17 1995

ATTACHMENT 3F (Page 8 of 26)

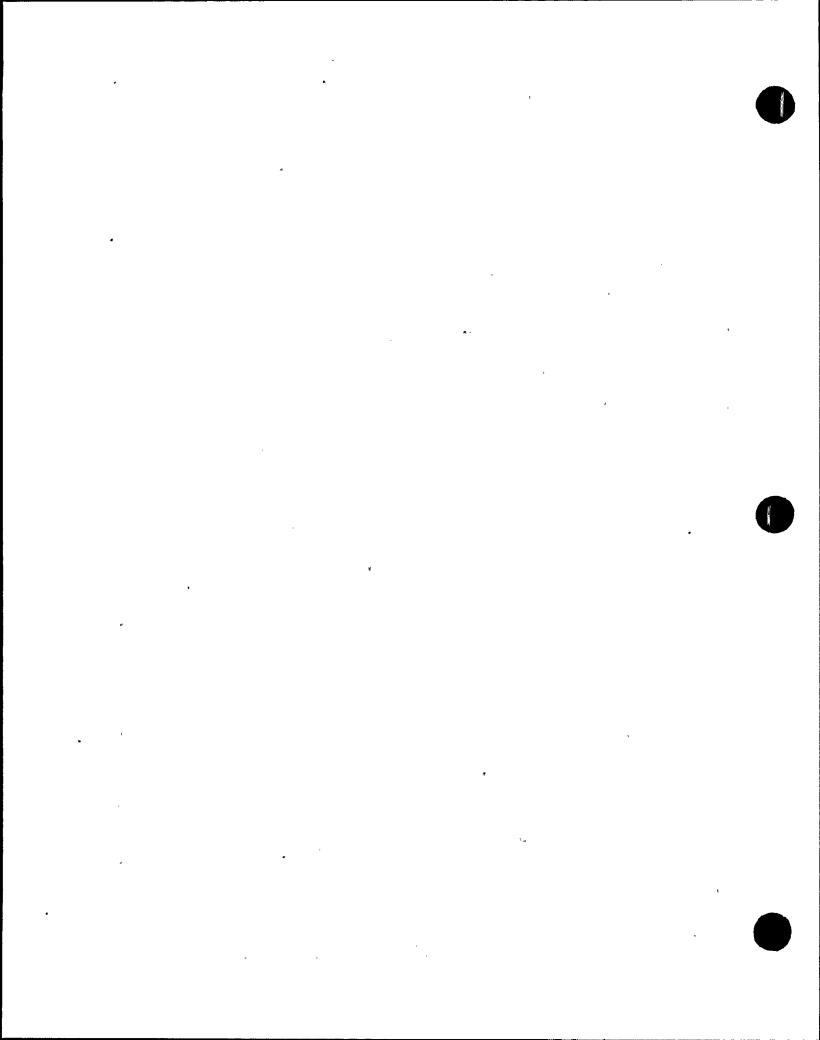
,		Dat	e	
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Reactor MOV Control Bay - El 62 (3-45E751 - 1	21', R-21Q		•
6A	3-BKR-064-0072 CORE SPRAY NW ROOM COOLER FAN		3	ALIGNED BY 3-01-75
6B1	3-BKR-047-003A/6B1 PRIMARY ISOL BKR FEEDING COMPT 1D TURB BRG LIFT PUMPS ASSY A		3	ALIGNED BY 3-01-47B
6C	3-BKR-074-0002 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-2 (M010-15A)		3	ALIGNED BY 3-01-74
6E	3-BKR-074-0062 RHR DISCHARGE TO MAIN CONDENSER VALVE FCV-74-62 (M010-66)		3	ALIGNED BY 3-01-74
7A	3-BKR-247-LS-359 TURBINE BLDG EMER LTG XFMR 1 PHASE 480 TO 520 - 236/118V	ои .	0	/
7B	3-BKR-032-0064 DW CONT AIR COMPRE 3A & DRYER 3A	SSOR	3	ALIGNED BY 3-01-32A
7C	3-BKR-074-0013 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-13 (M010-15C)		3	ALIGNED BY 3-01-74
7E	3-BKR-074-0104 RHR SYSTEM I FLUSH VALVE FCV-74-104 (M010-104)		3	ALIGNED BY 3-01-74



NOV 17 1995

ATTACHMENT 3F (Page 9 of 26)

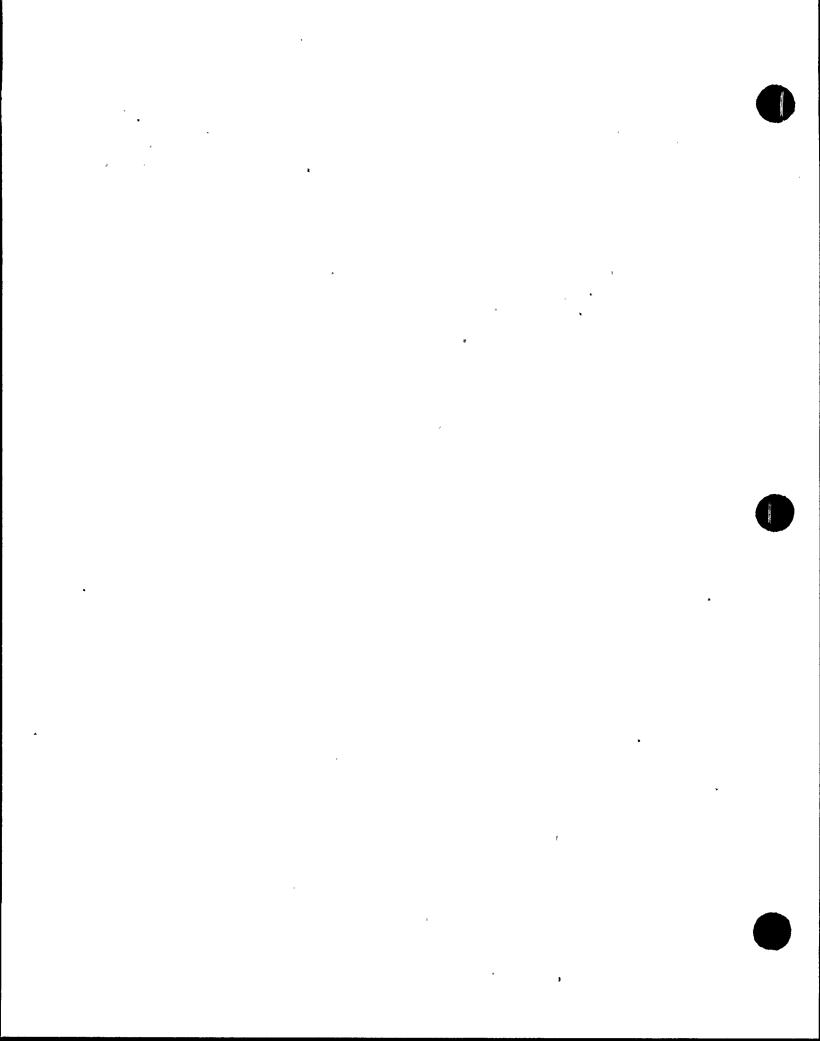
		· Dat	Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV		
	480V Reactor MOV Bo Control Bay - El 621 (3-45E751 - 1 &	', R-21Q				
8A	PRIMARY ISOLATION BKR FEEDING COMPT 10A MAIN TURB TURNING GEAR MOTOR		3	ALIGNED BY 3-01-47		
8C	3-BKR-074-0048 RHR SHUTDOWN COOLING SUCT ISOL VLV FCV-74-48 (M010-18)		3	ALIGNED BY 3-01-74		
8E	PIGGY BACK MOTOR MAIN TURB TURNING GEAR		3	ALIGNED BY 3-01-47		
9A	3-BKR-031-7205 SHUTDOWN BD ROOM ACU/3A		0	ALIGNED BY 0-01-31		
9B	3-BKR-078-0065 FUEL POOL FILTER DEMIN BYPASS VLV B FCV-78-65		<b>3</b>	ALIGNED BY 3-01-78		
9C	3-BKR-078-0064 FUEL POOL FILTER DEMIN OUTBD ISOL VLV FCV-78-64		. 3	ALIGNED BY 3-01-78		
9E1	3-BKR-064-0131 PRIMARY CONTAINMENT PURGE AIR FILTER FAN		3	ALIGNED BY 3-01-64		



#### NOV 17 1995

ATTACHMENT 3F (Page 10 of 26)

		Date.	e <u>'</u>	<del></del>
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV
	480V Reactor MOV Control Bay - El 6 (3-45E751 - 1	21', R-21Q		
10A	3-BKR-047-0010 MAIN TURB TURN GEAR		3	ALIGNED BY 3-01-47
11A	3-BKR-069-0035 RWCU DEMIN HOLDING PUMP 3A	•	3	ALIGNED BY 3-01-69
11B	3-BKR-075-0002 CS PUMP 3A SUPPR POOL SUCT			ALIGNED BY
	VALVE BREAKER (GE-14-7A)		3	3-01-75
11C	3-BKR-074-0057 RHR PSC ISOLATION VALVE FCV-74-57 (M010-39A)	,	3	ALIGNED BY 3-01-74
11E .	3-BKR-074-0061 RHR CONTAINMENT SPRAY VALVE FCV-74-61 (M010-31A)		3	ALIGNED BY 3-01-74
12A ·	3-BKR-063-0005A SLC PUMP 3A TRACE HEAT AND MOTOR HEATER	•	3	ALIGNED BY 3-OI-63
12B	3-BKR-075-0011 CS PUMP 3C SUPPR POOL SUCT VALVE BREAKER (GE-14-7C)		3	ALIGNED BY
12C	3-BKR-074-0059 RHR SYSTEM I TEST VLV FCV-74-59 (M010-34A)		3	ALIGNED BY 3-01-74
12E	3-BKR-074-0058 RHR PSC SPRAY VALVE FCV-74-58 (M010-38A)		3	ALIGNED BY 3-01-74

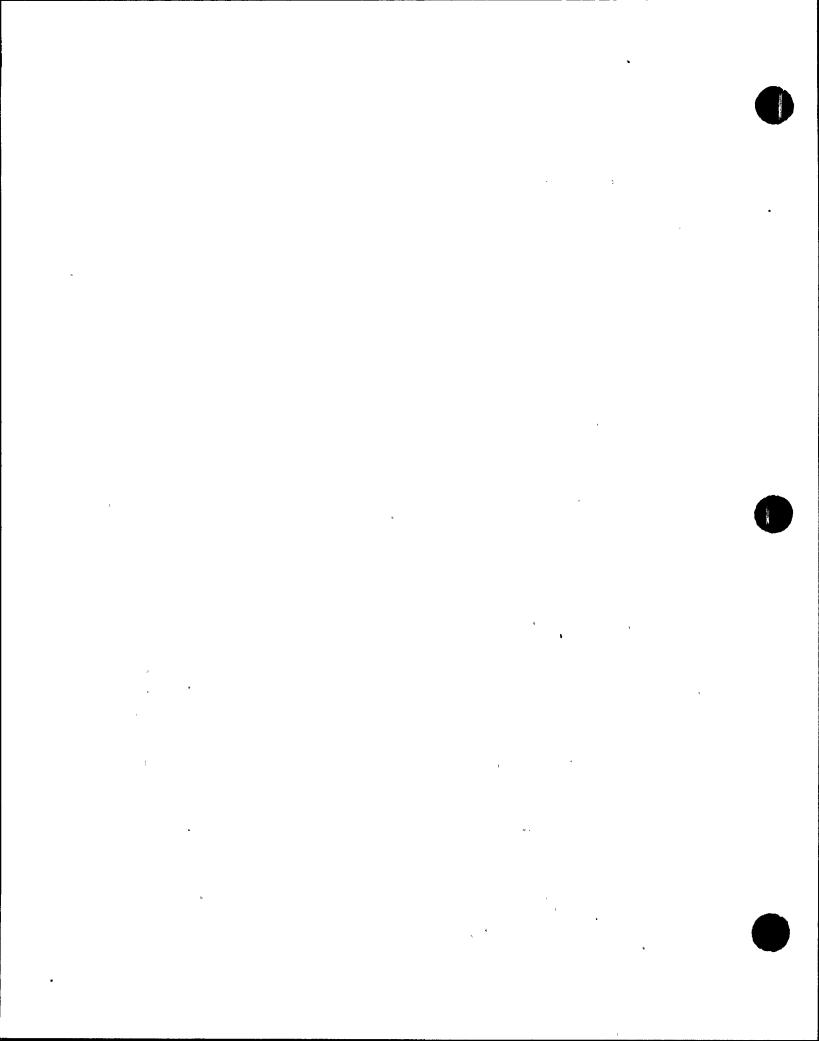


UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 11 of 26)

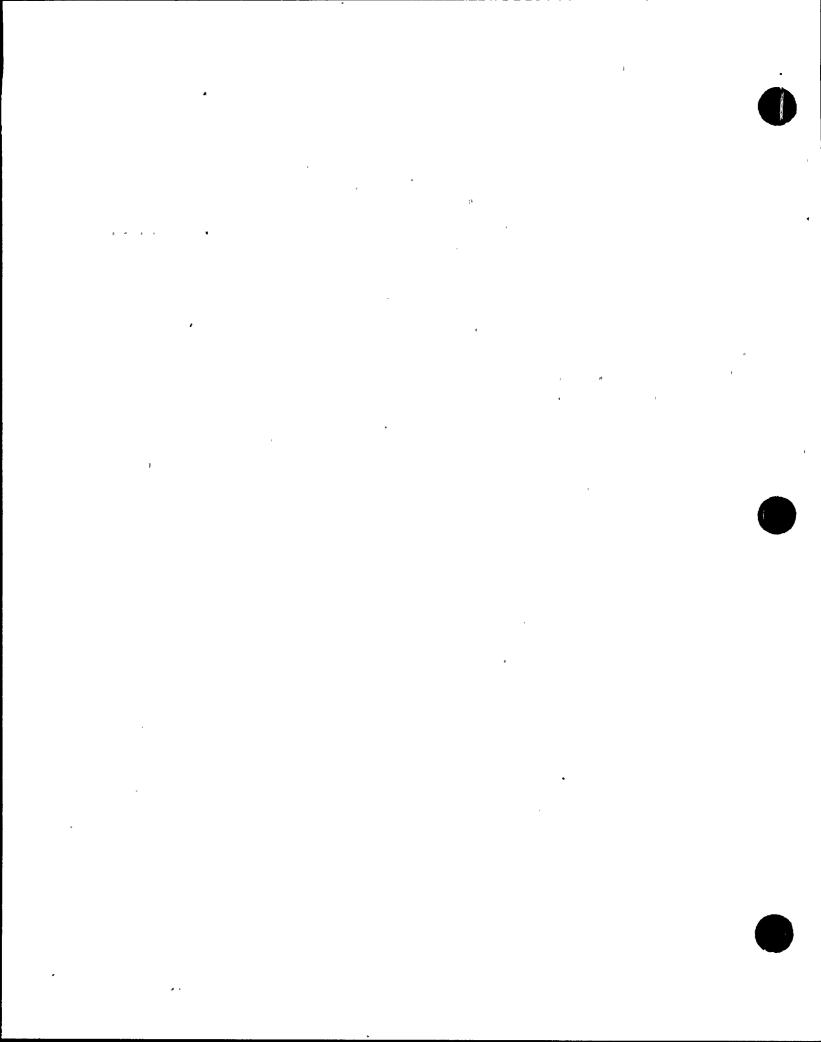
	•	Date			
Breaker Number	Component Description		Required Position	Unit	Initials lst/IV
•	480V Reactor Control Bay - (3-45E75)	El 621	', R-21Q		
13A	3-BKR-099-0003A		· · · · · ·		•
	PRI ISOL BREAKER FEEDING COMPT 13E RPS MG SET 3A			3	ALIGNED BY 3-01-99
13B	3-BKR-075-0023 CS SYSTEM I O INJ VALVE BREAKER (GE-14-11A			3	ALIGNED BY 3-01-75
13C	3-BKR-074-0060 RHR CONTAINMENT SPRAY VALVE FCV-74-60 (M010-26A)			3	ALIGNED BY 3-01-74
13E	3-BKR-099-0003AA SEC BREAKER FEEDING RPS MG SET 3A FROM COMPT 13A			3	ALIGNED BY 3-OI-99
14A	3-BKR-064-0070 RHR PUMP 3C COOLER FAN			3	ALIGNED BY 3-01-74
14B	3-BKR-075-0025 CS SYSTEM I INBD INJ VALVE BREAKER (GE-14-12A)			3	ALIGNED BY 3-OI-75
14C	0-BKR-067-0025 EECW NORTH HDR UNIT 3 SECT VLV FCV-67-25			3	ALIGNED BY 0-OI-67
M	-BKR-075-0009 CS SYSTEM I IN FLOW ALVE BREAKER (GE-14-68A)			3	ALIGNED BY 3-01-75



NOV 17 1995

UNIT 0 0-OI-57B ATTACHMENT 3F (Page 12 of 26)

		. Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV	
-	480V Reactor MC Control Bay - El (3-45E751 -	621', R-21Q			
15D	EMERGENCY SUPPLY BKR	CONNECTED AND OPEN	0	/	
16A	3-BKR-001-0055 MAIN STEAM LINE DRAIN VALVE FCV-1-55 (MO 2-74)		3	ALIGNED BY 3-01-1	
16C1	3-BKR-247-LS-304 REACTOR BLDG EMER LTG XFMR 480 TO 520 - 236/118V	ои	3	/	
16E .	3-BKR-069-0001 RWCU SYSTEM ISOL FCV-69-1		3	ALIGNED BY 3-01-69	
17A	3-BKR-070-0083 DRYWELL BLOWER 3A-3	,	3	ALIGNED BY 3-01-70	
17C	3-BKR-023-0034 RHR HEAT EXCHANGER A SERVICE WAD DISCHARGE VALVE FCV-23-34 (MO 1		3	ALIGNED BY 0-01-23	
17E	3-BKR-073-0002 HPCI STEAM SPLY LINE ISOL VALVE FCV-73-2		3	ALIGNED BY 3-01-73	



UNIT 0 0-01-57B

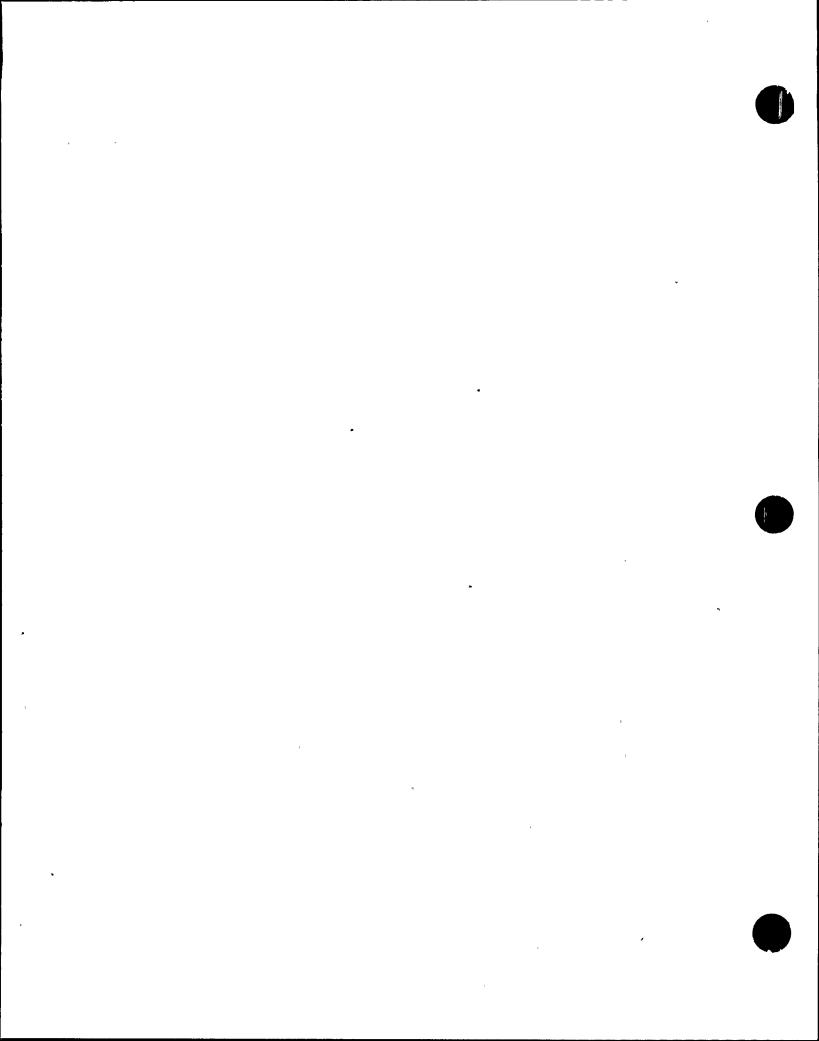
NOV 17 1995

ATTACHMENT 3F (Page 13 of 26)

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Dana da an				Tuihiala
Breaker Number	Component Description	Required * Position	Ûnit	Initials 1st/IV
	480V Reactor MOV			***************************************
	Control Bay - El 62 (3-45E751 - 1			
18A	3-BKR-070-0084 DRYWELL BLOWER 3A-4		3	ALIGNED BY 3-01-70
18C	3-BKR-023-0040	4		ALIGNED BY
	RHR HX 3C SERVICE WTR DISCH FCV-23-40		3	0-01 <del>-</del> 23
18E	3-BKR-075-0022 CS SYSTEM I TEST VALVE BREAKER (GE-14-26A)		3	ALIGNED BY 3-01-75
19A	3-BKR-071-0059			ALIGNED BY
	RCIC TURB EXH SUPPR CHBR VAC RELIEF VALVE BREAKER		3	3-01-71
R9A	3-BKR-031-0623			ALIGNED BY
*	SDBR CHILLER 3A-1		3	0-01-31
R9B1	3-BKR-031-0635		0	ALIGNED BY 0-01-31
·	SDBR CHILLER 3B-1		U	
R9B2	DIVISION I DUCT HEATERS SHUTDOWN BOARD ROOMS UNIT 3		0	ALIGNED BY 0-01-31
R9C	CHILLED WATER CIRC		_	ALIGNED BY
	PUMP 3A-1 SHUTDOWN BOARD ROOMS UN	IT 3	0	0-01-31
R9D	CHILLED WATER CIRC PUMP 3B-1 SHUTDOWN BOARD ROOMS UN	IT 3	0	ALIGNED BY 0-01-31
R9E	AIR HANDLING UNIT 3A-1 SHUTDOWN			ALIGNED BY
NJ L	BOARD ROOMS UNIT 3		0	0-01-31
R9F	AIR HANDLING UNIT 3B-1 SHUTDOWN			ALIGNED BY
Ö	BOARD ROOMS UNIT 3		0	0-01-31
R10F	3-BKR-076-0049 PRI CONTAINMENT ATMOSPHERIC MONITOR SYSTEM ANALYZ	ER	3	ALIGNED BY 3-01-76
	SAMPLE RETURN PUMP		J	0 02 ,0

NOV 17 1995 ATTACHMENT 3F (Page 14 of 26)

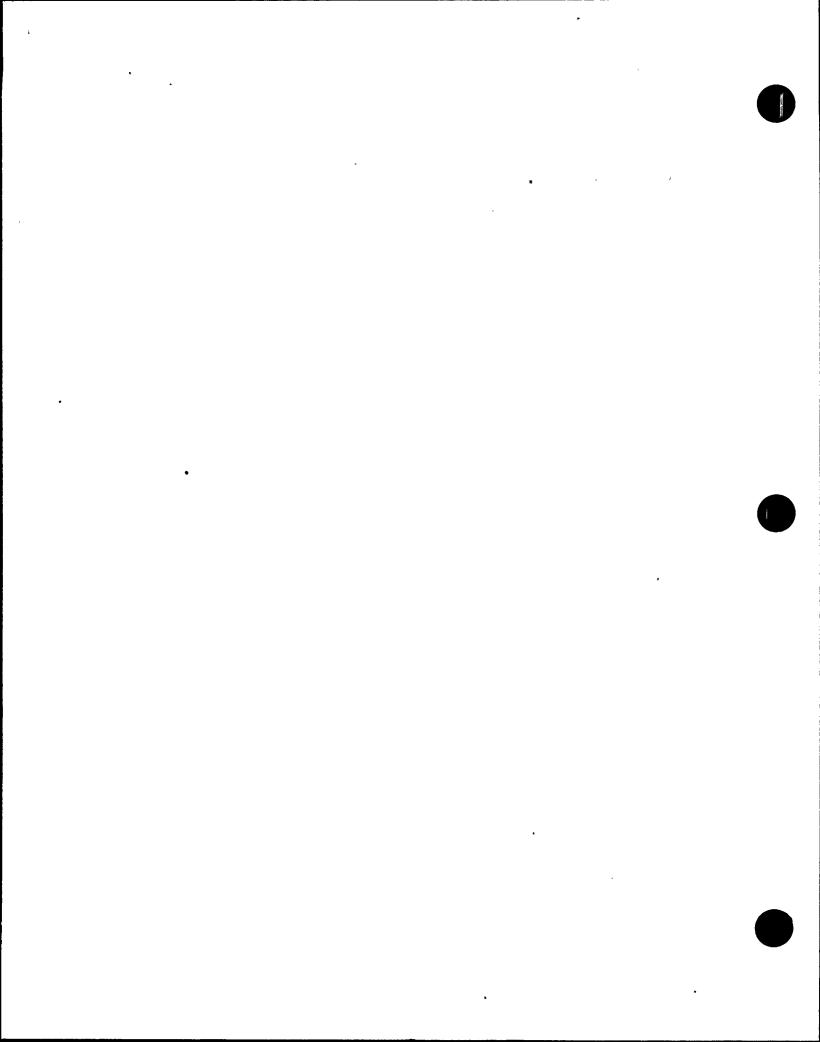
	Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Bo Control Bay - El 593 (3-45E751 - 3 &	', R-20P		
1A .	DRYWELL FLOOR DRAIN SUMP PUMP 3B		3	ALIGNED BY 0-01-77B
1B	REACTOR BLDG FLOOR DRAIN SUMP PUMP 3B		3	ALIGNED BY 0-01-77B
1C	3-BKR-071-0002 RCIC STM LINE INBD ISOL VALVE BREAKER (GE-13-15)		3	ALIGNED BY 3-01-71
1E	3-BKR-075-0050 CS SYSTEM II TEST VALVE BREAKER (GE-14-26B)		3	ALIGNED BY 3-01-75
2D	NORMAL SUPPLY BREAKER	CLOSED	0	/
3A	3-BKR-074-0066 RHR OUTBOARD VALVE FCV-74-66 (M010-154B)		3	ALIGNED BY 3-01-74
3E .	3-BKR-075-0039 CS PUMP 3D SUPPR POO SUCT VALVE BREAKER (GE-14-7D)	)L	3	ALIGNED BY 3-01-75
4A	3-BKR-070-0088 DRYWELL BLOWER 3B-3		3	ALIGNED BY 3-01-70
4C	CONTAINMENT ATMOSPHERIC DILUTION SYSTEM B HEATER	•	3	ALIGNED BY 2-01-84
4D	3-BKR-075-0030 CS PUMP 3B SUPPR POOL SUCT VALVE BREAKER (GE-14-7B)	>	3	ALIGNED BY 3-01-75
4E	3-BKR-075-0037 CS SYSTEM II MIN FLO VALVE BREAKER (GE-14-68B)	W	3	ALIGNED BY 3-01-75
5A	3-BKR-070-0048  CLOSED COOLING WTR SECTIONALIZING  VLV FCV-70-48		3	ALIGNED BY 3-01-70



NOV 17 1995

ATTACHMENT 3F (Page 15 of 26)

	•	Date		
Breaker Number	Component Description	Required Position	Unit .	Initials lst/IV
	480V Reactor MOV Bo Control Bay - El 593 (3-45E751 - 3 &	', R-20P		
5C1	RPS ALTERNATE POWER TRANSFORMER TRP-3	4	3	ALIGNED BY 3-OI-99
5C2	2-BKR-023-0057 UNITS 2 & 3 STANDBY COOLANT VALVE FCV-23-57 (MO 10-169)		3	ALIGNED BY 0-01-23
5E	3-BKR-074-0024 RHR PUMP 3B SUCTION VALVE FCV-74-24 (M010-13B)		3	ALIGNED BY 3-01-74
6A	3-BKR-070-0047 CLOSED COOLING WATER ISOLATION VALVE FCV-70-47		3	ALIGNED BY 3-01-70
6C1	0-BKR-268-003B/6C1 ANNUNCIATOR BATTERY CHARGER B		0	ALIGNED BY 0-01-57D
6C2	3-BKR-074-0025 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-25 (M010-15B)		3	ALIGNED BY 3-01-74
6E	3-BKR-074-0035 RHR PUMP 3D SUCTION VALVE FCV-74-35 (M010-13D)	·	3	ALIGNED BY 3-01-74
7A	3-BKR-074-0063 RHR DISCHARGE TO RADWASTE VALVE FCV-74-63 (M010-5	57)	3	ALIGNED BY 3-01-74
7B	3-BKR-064-0069 RHR PUMP 3B COOLER FAN		3	ALIGNED BY 3-01-74
7c ,	3-BKR-074-0036 RHR SHUTDOWN COOLING SUCTION VALVE FCV-74-36 (M010-15D)		3	ALIGNED BY 3-01-74
7E	3-BKR-023-0046 RHR HX 3B SERVICE WTR DISCH FCV-23-46		.3	ALIGNED BY 0-01-23

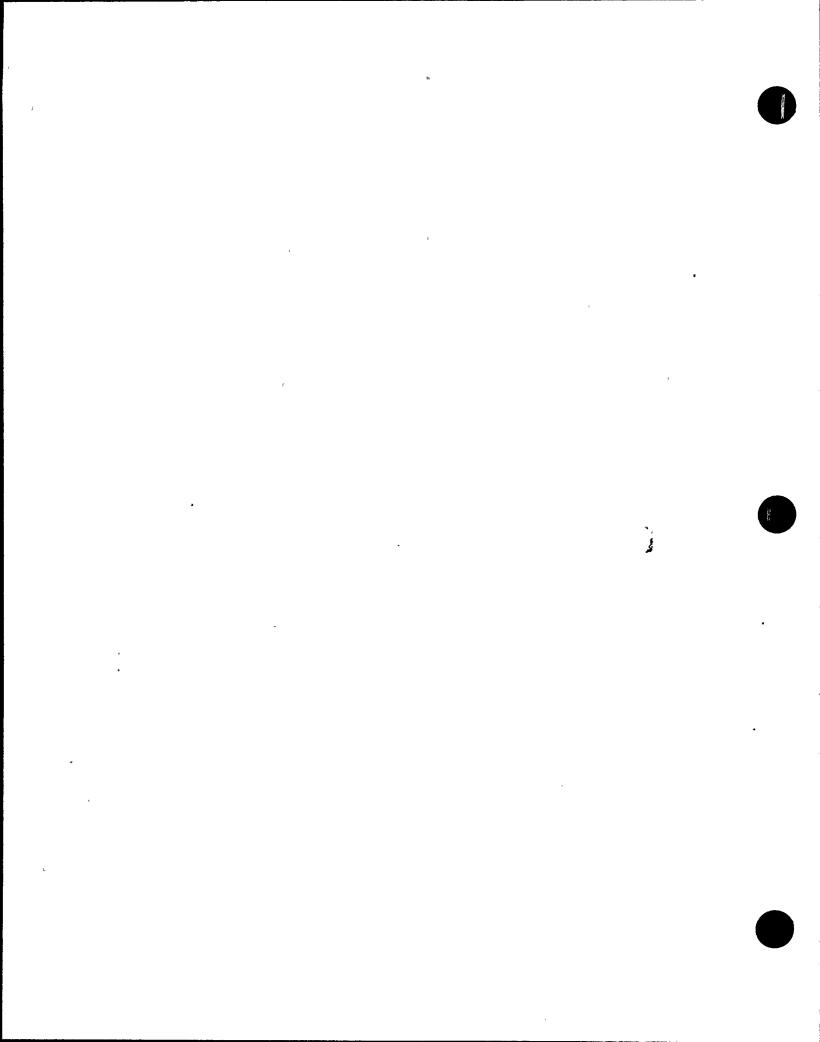


UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 16 of 26)

	, Date				
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV	
	' 480V Reactor N Control Bay - E (3-45E751	1 599', R-20P			
8B	3-BKR-064-0073 CORE SPRAY NE ROOM COOLER FAN		3	ALIGNED BY 3-OI-75	
8C	3-BKR-074-0046 RHR DISCHARGE TIE VALVE FCV-74-46 (M010-20)		3	ALIGNED BY 3-01-74	
8E	3-BKR-023-0052 RHR HX 3D SERVICE WTR DISCH FCV-23-52		3	ALIGNED BY 0-01-23	
9A	3-BKR-063-0005B SLC PUMP 3B TRACE HEAT AND MOTOR HEATER .		3	ALIGNED BY 3-OI-63	
981	3-HS-074-0024C RHR VLV 3-FCV-74-24 APP R CONT CIRCUIT DISABLE HS		3	ALIGNED BY 3-01-74	
9B2	3-BKR-078-0063 FUEL POOL FILTER DEMIN INBD ISOL VLV FCV-78-63		3	ALIGNED BY	
9D	3-BKR-078-0066 FUEL POOL FILTER DEMIN BYPASS VLV A FCV-78-66		3	ALIGNED BY 3-01-78	
9E	3-BKR-078-0068  FUEL POOL FILTER DEMIN INBD -ISOL VLV FCV-78-68		3	ALIGNED BY 3-01-78	

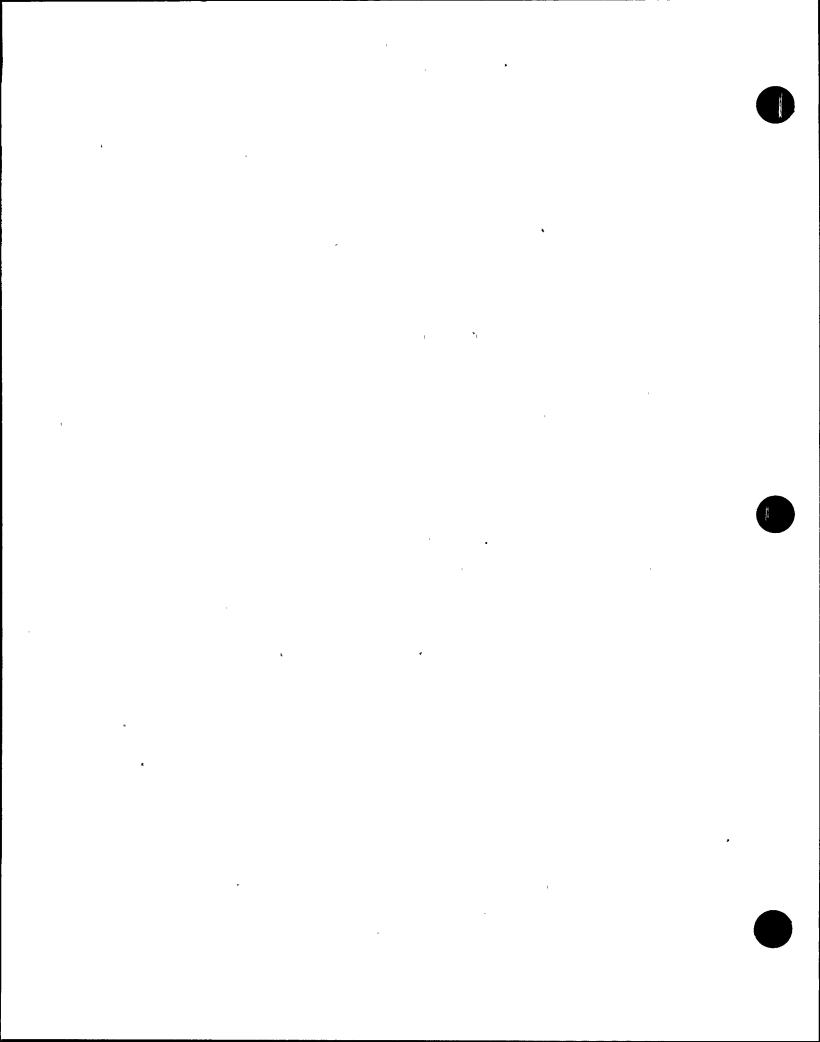


UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 17 of 26)

Breaker Number	• Date			
		equired osition	Unit	Initials 1st/IV
	480V Reactor MOV Boar Control Bay - El 599', (3-45E751 - 3 & 4)	R-20P	•	
10A	3-BKR-073-0081 HPCI STM LINE WARM UP VLV FCV-73-81		3	ALIGNED BY 3-OI-73
10B	3-BKR-031-7206 SHUTDOWN BD RM ACU/3B		0	ALIGNED BY 0-01-31
10C	3-BKR-074-0073 RHR SYSTEM II TEST VLV FCV-74-73 (M010-34B)		ои	/
10E .	3-BKR-074-0075 RHR CONTAINMENT SPRAY VALVE FCV-74-75 (MO-10-31B)		3	ALIGNED BY 3-01-74
11A	3-BKR-032-0067 DW CONT AIR COMPRESSOR 3B & DRYER 3B	ы	3	ALIGNED BY 3-01-32A



UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 18 of 26)

•		` Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV	
	480V Reactor MOV 1 Control Bay - El 59 (3-45E751 - 3	9', R-20P			
118	3-BKE-069-0060 SEC BKR FD RWCU DEMIN HLD PMP 3B FROM CMPT 11C		3	ALIGNED BY 3-01-69	
11C	3-BKR-069-0060/A PRI ISOL BKR FD CMPT 11B RWCU DEMIN HLD PMP 3B		3	ALIGNED BY 3-01-69	
11D	3-BKR-075-0076 PSC WATER HEAD TANK PUMP 3B MOTOR BREAKER		3	ALIGNED BY 3-01-75	
11E	3-BKR-074-0072 RHR PSC SPRAY VALVE FCV-74-72 (M010-38B)		3	ALIGNED BY 3-01-74	
12A	3-BKR-074-0106 RHR SYSTEM II FLUSH VALVE FCV-74-106 (M010-106)		3	ALIGNED BY 3-01-74	
12B	3-BKR-064-0071. RHR PUMP 3D COOLER FAN		3	ALIGNED BY 3-01-74	
13A	3-BKR-073-0064 HPCI TURB EXHAUST VACUUM RELIEF FCV-73-64		3	ALIGNED BY 3-01-73	
13C1	3-BKR-247-LS-300 REACTOR BLDG EMER LTG XFMR 1 PHASE 480 TO 520 - 263/118V	ON	3	/	
13C2	0-BKR-031-7213 CREVS FILTRATION UNIT B		0	ALIGNED BY 0-01-31	
13D	3-BKR-078-0061 FUEL POOL MAKEUP FROM RHR INBD VLV FCV-78-61		3	ALIGNED BY 3-01-78	
13E	-3~BKR-074-0071 RHR PSC ISOLATION VALVE FCV-74-71 (M010-39B)		3	ALIGNED BY 3-01-74	

UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 19 of 26)

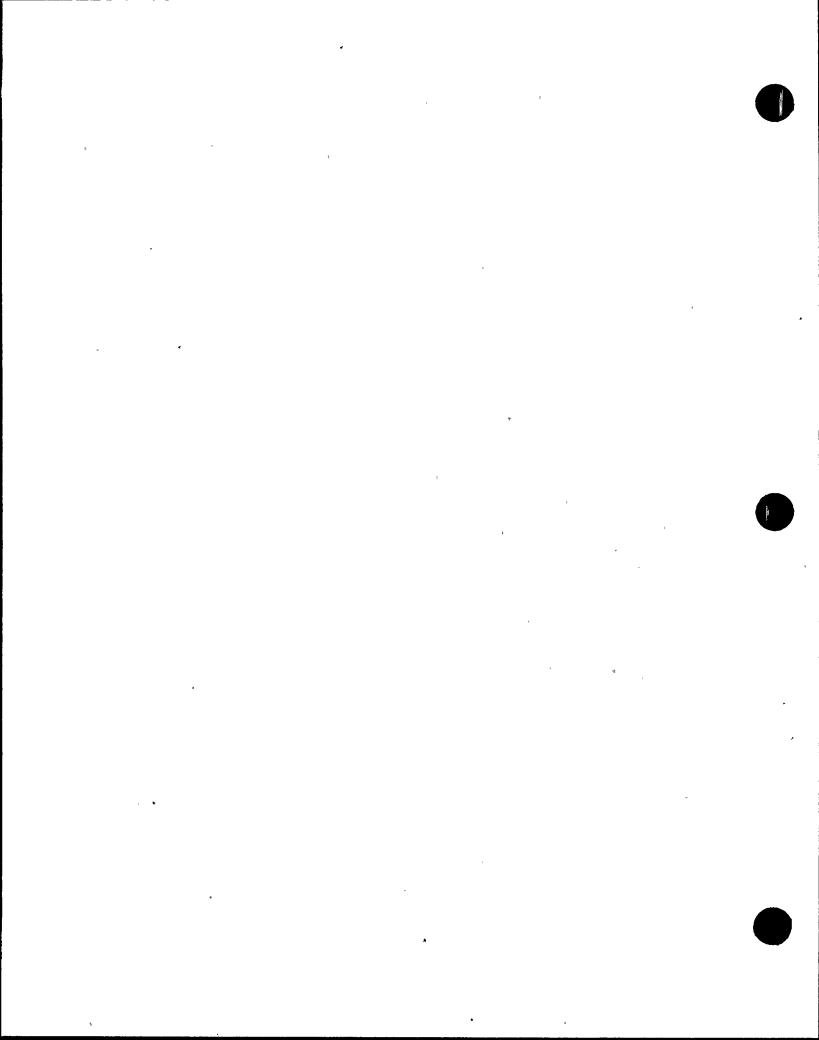
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Breaker Number	Component Required Description Position	Unit	Initials 1st/IV	<u> </u>
	480V Reactor MOV Control Bay - El 59 (3-45E751 - 3	93', R-20P		
14A	0-BKR-067-0026 EECW SOUTH HDR UNIT 3 SECT VLV FCV-67-26		0	ALIGNED BY 0-01-67
14C1	3-BKR-099-0003B PRI ISOL BREAKER FEEDING COMPT 14C2 RPS MG SET 3B	•	3	ALIGNED BY 3-01-99
14C2	3-BKR-099-0003BA SECON BREAKER FEEDING RPS MG SET 3B FROM COMPT 14C1		3	ALIGNED BY 3-01-99
15A	3-BKR-070-0089 DRYWELL BLOWER 3B-4		3	ALIGNED BY 3-01-70
15D	3-BKR-075-0051 CS SYSTEM II OUTBD INJ VALVE BREAKER (GE-14-11B)	•	3	ALIGNED BY 3-01-75
15E	3-BKR-075-0053 CS SYSTEM II INBD INJ VALVE BREAKER (GE-14-12B)		3	ALIGNED BY 3-01-75
16D	EMERGENCY SUPPLY BREAKER	CONNECTED AND OPEN	3	/
17A	BD ROOMS EMERGENCY SUPPLY FAN 3B		0	ALIGNED BY 0-01-31
17B	3-BKR-069-0012 RWCU ISOLATION VALVE FCV-69-12		3	ALIGNED BY 3-01-69
17D	3-BKR-268-003B/17D UNIT PREFERRED TRANSFORMER TUP3	ои	3	/
17E	2-BKR-074-0099 RHR PUMP 2D SUCTION CROSSTIE VALVE FCV-74-99 (M010-181)		2	ALIGNED BY 2-OI-74

UNIT 0 0-01-57B

#### NOV 17 1995

ATTACHMENT 3F (Page 20 of 26)

		Date			
Breaker Number		Required Position	Unit	Initials 1st/IV	
	480V Reactor MOV Boar Control Bay - El 599', (3-45E751 - 3 & 4	R-20P			
18A	DRYWELL EQUIPMENT DRAIN SUMP PUMP 3B		3	ALIGNED BY	
18B	REACTOR BUILDING EQUIPMENT DRAIN SUMP PUMP 3B		3	ALIGNED BY 0-OI-77A	
18D	3-BKR-074-0074 RHR CONTAINMENT SPRAY VALVE FCV-74-74 (M010-26B)		3	ALIGNED BY 3-01-74	
1BE	3-BKR-047-003B/18E TURB BRG LIFT PUMPS 7&10, 8&9		3	ALIGNED BY 3-01-47B	
19A	3-BKR-074-0100 RHR HTX A-C DISCH XTIE (TO U-2) VLV FCV-74-100 (M010-17	71)	3	ALIGNED BY 3-01-74	
19C	3-BKR-074-0097 RHR PUMP C SUCTION XTIE (TO U-2) VALVE FCV-74-97 (M010-183)		3	ALIGNED BY 3-01-74	
19E	2-BKR-074-0101 RHR HEAT EXCHANGER B & D DISCHARGE CROSSTIE VALVE FCV-74-101 (MO 10-170)		2	ALIGNED BY 2-OI-74	
R9A	3-BKR-031-0651 SDBR CHILLER 3A-2		0	ALIGNED BY 0-01-31	
R9B1	3-BKR-031-0667 SDBR CHILLER 3B-2		0	ALIGNED BY	
R9B2	DIVISION II DUCT HEATER SHUTDOWN BOARD ROOM U-3		0 .	ALIGNED BY	
R9C	CHILLED WATER CIRCULATION PUMP 3A-2 SHUTDOWN BOARD ROOM U-3		0	ALIGNED BY	



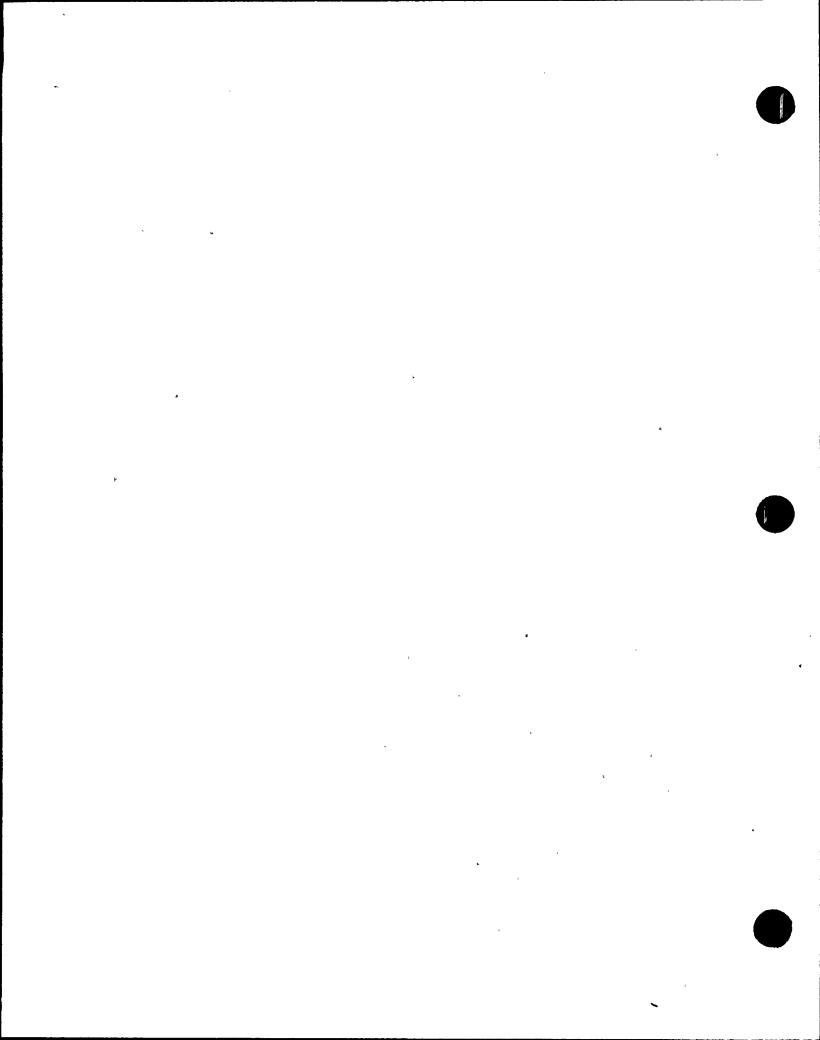
UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 21 of 26)

		Date			
Breaker Number	Component Description	Required Position	Unit	Initials lst/IV	
	480V Reactor MC Control Bay - El (3-45E751 -	599', R-20P			
R9D	CHILLED WATER CIRCULATION PUMP 3B-2 SHUTDOWN BOARD ROOM U-3		0	ALIGNED BY 0-01-31	
R9E	AIR HANDLING UNIT 3A-2 SHUTDOWN BOARD ROOM U-3		0	ALIGNED BY 0-01-31	
R9F	AIR HANDLING UNIT 3B-2 SHUTDOWN BOARD ROOM U-3		0	ALIGNED BY 0-01-31	
R10F	3-BKR-076-0104D PRI CNTMT ATM MON SYS ANLZR SMPL RET PMP 3B	*	3	ALIGNED BY 3-01-76	
	480V Reactor M Reactor Building - (3-45E751	El 565', R-20S			
1A	3-BKR-070-0085 DRYWELL BLOWER 3A-5	•	3	ALIGNED BY 3-01-70	
10	CRD TEST HOIST EQUIPMENT HANDLING PLATFORM OUTLETS	OFF(2)	3	/	
1D	3-BKR-096-0021 RECIRCULATION MG SET OIL PUMP 3A-3			ALIGNED BY 3-01-68	
2D	EMERGENCY SUPPLY BREAKER	OFF	3	/	
3C	CRD RETURN LINE ISOLATION MOV FCV-85-50 (MO-3-109)	•	3	ALIGNED BY 3-01-85	

<sup>(2)</sup> This breaker shall not be closed unless Unit 3 is in cold shutdown . (DCN T37517A).



UNIT 0 0-01-57B

#### NOV 17 1995

ATTACHMENT 3F (Page 22 of 26)

	Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Bo Reactor Building - El 5 (3-45E751 - 5 &	65', R-20S		
3E	CRD WATER PRESSURE CONTROL VALVE PCV-85-23 (MO-3-20)		3	ALIGNED BY 3-01-85
4A	3-BKR-070-0091 RBCCW PUMP SEAL LEAKAGE TRANSFER PUMP		3	ALIGNED BY 3-01-70
4B	REACTOR BUILDING EQUIPMENT DRAIN SUMP PUMP 3A		3	ALIGNED BY 0-01-77A
<b>4E</b>	3-BKR-085-0027 CRD COOLING WATER PRESSURE CONTROL VALVE PCV-85-27 (MO-3-22)		3	ALIGNED BY 3-01-85
5B .	3-BKR-024-0025 BUS HTX ALTERNATOR COOLER AND HYDROGEN CW SHUTOFF MOV FCV-24-25		3	ALIGNED BY 3-01-24
5C .	CLOSED COOLING WATER SPARE PUMP SUCTION VALVE FCV-70-69	•	0	ALIGNED BY 2-01-70
5 <b>E</b>	CRD PUMP SUCTION SHUTOFF VALVE FCV-85-56		3	ALIGNED BY 3-01-85
6B	STATOR LIQUID COOLING WATER SHUTOFF MOV FCV-24-41		3	ALIGNED BY 3-01-24
6C	CLOSED COOLING WATER SPARE PUMP DISCHARGE VALVE A FCV-70-70		0	ALIGNED BY 2-01-70
6E,	3-BKR-001-0058  MAIN STEAM LINE DRAIN  VALVE FCV-1-58 (MO-2-79)	ts	3	ALIGNED BY 3-01-1

NOV 17 1995

UNIT 0 0-OI-57B ATTACHMENT 3F (Page 23 of 26)

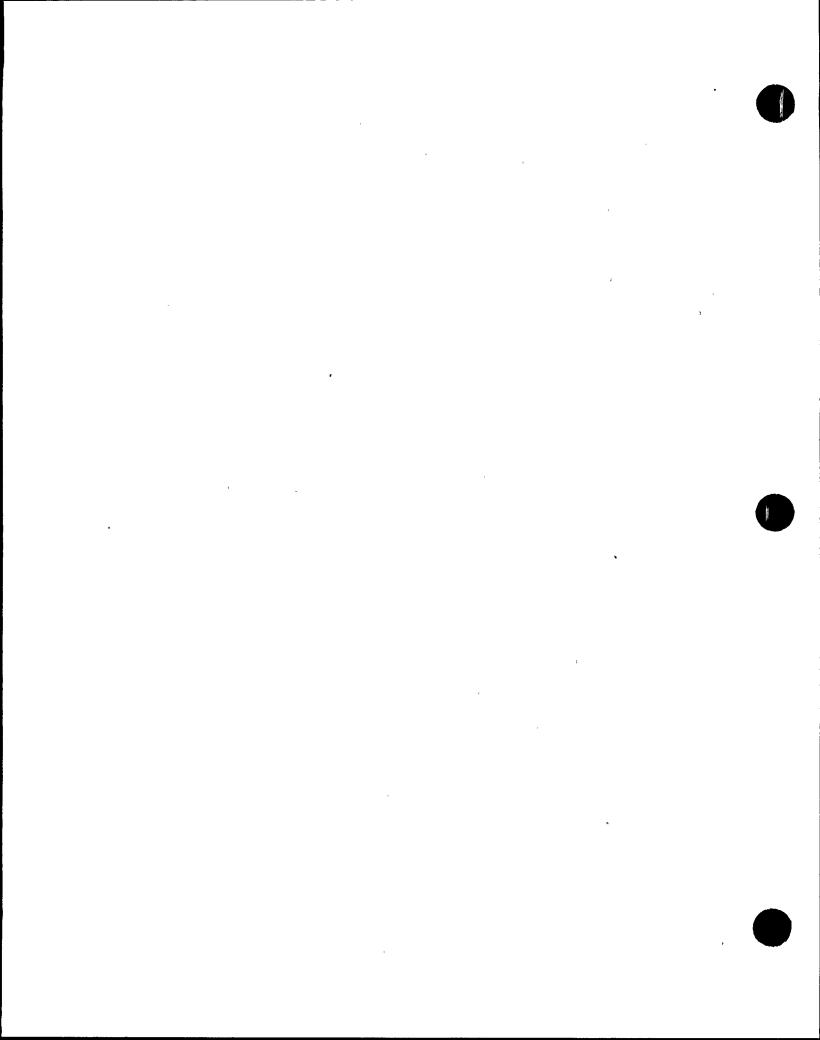
	` Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV E Reactor Building - El (3-45E751 - 5	565', R-20S	*	
7A	REACTOR BLDG FLOOR DRAIN SUMP PUMP 3A	<u> </u>	0	ALIGNED BY 0-01-77B
7B ,	3-BKR-024-0057 PRECOOLER LIQ COOL WTR SHUTOFF MOV FCV-24-57		3	ALIGNED BY 3-01-24
7C	3-BKR-069-0016 RWCU BLOWDOWN VLV FCV-69-16		3	ALIGNED BY 3-01-69
7E	3-BKR-069-0008 RWCU DEMIN SYS BYPASS VLV FCV-69-8		3	ALIGNED BY 3-01-69
8B	TURBINE OIL & EHC FLUID COOLING WATER SHUTOFF MOV FCV-24-65		3	ALIGNED BY 3-01-24
8C	3-BKR-069-0017 RWCU DRAIN TO RADWASTE FCV-69-17		<b>3</b>	ALIGNED BY 3-01-69
SE	3-BKR-069-0014 RWCU RESTRICTING ORIFICE BYPASS VLV PCV-69-14		3	ALIGNED BY 3-01-69
9В	.3-BKR-001-0057 MAIN STEAM LINE DRAIN VALVE FCV-1-57 (MO2-78)	,	3	ALIGNED BY 3-OI-1

UNIT 0 0-01-57B

NOV 17 1995

ATTACHMENT 3F (Page 24 of 26)

		Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV	
	480V Reactor MOV Reactor Building - El (3-45E751 - 5	565', R-20S			
9E ,	3-BKR-001-0059  MAIN STEAM LINE DRAIN VALVE  CONDENSER INLET FCV-1-59		3	ALIGNED BY 3-01-1	
10D	NORMAL SUPPLY BREAKER	CLOSED	3	/	
11A	3-BKR-070-0090 DRYWELL BLOWER 3B-5		3	ALIGNED BY 3-01-70	
R6E	3-BKR-068-0077 RECIRCULATION PUMP 3B SUCTION VALVE (FCV-68-77)		3	ALIGNED BY 3-OI-68	
R7B	TEMPORARY EMERGENCY MAINTENANCE FEED TO 480V REACTOR MOV BD 3D	OFF	3	/	
R8B	3-BKR-068-0001 RECIRCULATION PUMP 3A SUCTION VALVE (FCV-68-1)		3	ALIGNED BY 3-01-68	
R9B	TEMPORARY EMERGENCY MAINTENANCE FEED TO 480V REACTOR MOV BD 3E	OFF	3	/	
R11A	3-BKR-075-0075 PSC WATER HEAD TANK PUMP 3A MOTOR BREAKER		<b>3</b>	ALIGNED BY 3-01-75	
R11B	3-BKR-030-0245 SD BD ROOMS EXH FAN		0	ALIGNED BY 0-01-31	



UNIT 0 0-0I-57B

NOV 17 1995

ATTACHMENT 3F (Page 25 of 26)

	· Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	480V Reactor MOV Reactor Building - E (3-45E751 -	1 593', R-U18	,	
1D	NORMAL SUPPLY CIRCUIT	-		•
	MAIN CIRCUIT BREAKER	CLOSED	3	/
2C	3-BKR-074-0053			
	RHR SYSTEM I INBD INJECTION VLV FCV-74-53 (M010-25A)		3	ALIGNED BY 3-01-74
3C	TEMPORARY EMER MAINT	OFF		
	FEEDER BREAKER		3	/
3E	3-BKR-068-0079 RECIRCULATION PUMP 3B		3	ALIGNED BY 3-01-68
	DISCHARGE VALVE (FCV-68-79)		3	3-01-68
4E	3-BKR-074-0007 RHR SYSTEM I MINIMUM FLOW VLV			ALIGNED BY
	FCV-74-7 (M010-16A)		3	3-01-74
5D	EMERGENCY SUPPLY CIRCUIT	CONNECTED	•	
	MAIN CIRCUIT BREAKER	AND OPEN	3	/

NOV 17 1995

UNIT 0 0-OI-57B ATTACHMENT 3F (Page 26 of 26)

	Date			
Breaker Number	Component Description	Required Position	Unit	Initials 1st/IV
	A80V Reactor MOV Reactor Building - El (3-45E751 -	621', R-S19		
1D	NORMAL SUPPLY CIRCUIT MAIN CIRCUIT BREAKER FROM 480V SHTDN BD 3B COMPT 2A	CLOSED	3	/
2C	3-BKR-074-0067 RHR SYSTEM II INBD INJECTION VLV FCV-74-67 (M010-258)		3	ALIGNED BY 3-01-74
3C	TEMPORARY EMER MAINT FEEDER BREAKER	OFF	3 -	/
3E	3-BKR-068-0003 RECIRCULATION PUMP 3A DISCH VALVE (FCV-68-3)	•	3	ALIGNED BY 3-01-68
4E	3-BKR-074-0030 RHR SYSTEM II MINIMUM FLOW VLV FCV-74-30 (M010-16B)		3	ALIGNED BY 3-01-74
5D .	EMERGENCY SUPPLY CIRCUIT. MAIN CIRCUIT BREAKER FROM 480V SHTDN BD 3A COMPT 7A	CONNECTED AND OPEN	3	/

4 .