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T:

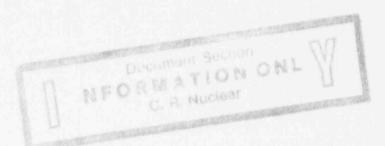
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9406070207 940528 PDR ADDCK 05000302 PDR

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DATE





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ANNUNCIATOR RESPONSE AR-603 FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3

TGF O ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

DATE:

APPROVED BY: Interpretation Contact

(SIGNATURE ON FILE) the 194 5

INTERPRETATION CONTACT:

Supervisor, Nuclear Operations Administrative Shift

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## 1.0 PURPOSE

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- 1.1 Establish a reference document for each Annunciator Window on the TGF-AX3 Lampbox.
- 1.2 Establish operator actions for valid Annunciator alarms on the TGF-AX3 Lampbox.
- 1.3 Establish a reference to other procedures which address operator actions for valid Annunciator alarms on the TGF-AX3 Lampbox.

## 2.0 REFERENCES

#### 2.1 IMPLEMENTING REFERENCES

- 2.1.1 AP-660, Turbine Trip
- 2.1.2 OP-607, Condenser Vacuum System
- 2.1.3 EOP, Emergency Operating Procedure
- 2.1.4 OP-701, Operation of the Main Electrical Generator Systems
- 2.1.5 AR-921, Hydrogen Panel Annunciator Response
- 2.1.6 OP-203, Plant Startup
- 2.1.7 OP-204, Power Operations
- 2.1.8 SP-325, Turbine Generator Checks

#### 2.2 DEVELOPMENTAL REFERENCES

- 2.2.1 INPO 90-021, Good Practice OP-217, Alarm Response Procedures
- 2.2.2 Annunciator Window Engraving Drawing E-224-049
- 2.2.3 Westinghouse Vendor Drawing CN6F9177

#### 3.0 PERSONNEL INDOCTRINATION

3.1 The Annunciator System is powered from VBDP-5 Breaker 28.

# 4.0 INSTRUCTIONS

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- 4.1 Respond to alarms on the TGF-AX3 Lampbox as indicated on Enclosure 1, Annunciator Response.
- 5.0 FOLLOW-UP ACTIONS

None



ENCLOSURE 1 (Page 1 of 108)

	TGF-AX3-01-01	0-01-01
	TURB ( BRG OIL TRIF	PUMP
	EVENT POIN	T 1614
INDICATED CONDITION: • TBP-2 BREAKER OPEN WITH CONTROL HANDLE IN POSITION.	THE NORMAL AFTER STA	RT
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON CONT</li> </ul>		
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBP-3 STARTS.		
○ ENSURE TBP-3 STARTS.		

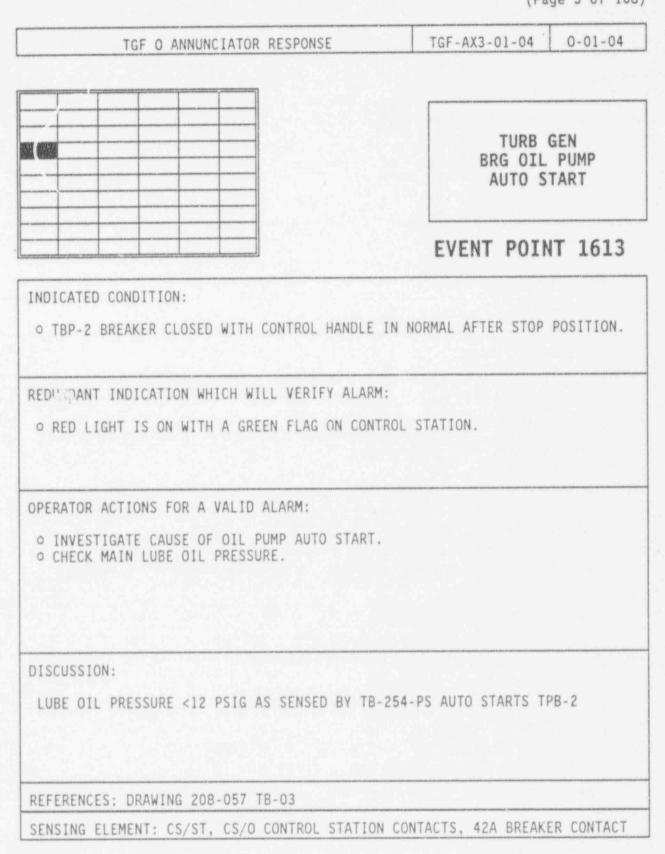
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ENCLOSURE 1 (Page 2 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-01 0-01-01
	TURB GEN
	BRG OIL PUMP TRIP
	EVENT POINT 1618
INDICATED CONDITION:	
• TBP-3 DC STARTER OPEN WITH CONTROL HAND	LE IN NORMAL AFTER START
POSITION.	
REPUBLICANT AND ARTICLE UNITALL LIGHT MERCEN ALA	<b>D</b> 44
REDUNDANT INDICATION WHICH WILL VERIFY ALA	RM:
○ GREEN LIGHT IS ON WITH A RED FLAG ON CO	
○ GREEN LIGHT IS ON WITH A RED FLAG ON CO	
• GREEN LIGHT IS ON WITH A RED FLAG ON CO OPERATOR ACTIONS FOR A VALID ALARM:	
○ GREEN LIGHT IS ON WITH A RED FLAG ON CO	
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON COL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>O ENSURE TBP-2 AUTO STARTS</li> </ul>	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBP-2 AUTO STARTS	
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON COL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>ENSURE TBP-2 AUTO STARTS</li> </ul>	
• GREEN LIGHT IS ON WITH A RED FLAG ON CO OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBP-2 AUTO STARTS • ENSURE TBP-8 AUTO STARTS	
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON CONTRACTIONS FOR A VALID ALARM:</li> <li>ENSURE TBP-2 AUTO STARTS</li> <li>ENSURE TBP-8 AUTO STARTS</li> </ul>	
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON COL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>ENSURE TBP-2 AUTO STARTS</li> </ul>	
<ul> <li>GREEN LIGHT IS ON WITH A RED FLAG ON CONTRACTIONS FOR A VALID ALARM:</li> <li>ENSURE TBP-2 AUTO STARTS</li> <li>ENSURE TBP-8 AUTO STARTS</li> </ul>	
• GREEN LIGHT IS ON WITH A RED FLAG ON CO OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBP-2 AUTO STARTS • ENSURE TBP-8 AUTO STARTS	

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ENCLOSURE 1 (Page 3 of 108)



ENCLOSURE 1 (Page 4 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-04 0-01-0
	TURB.GEN BRG OIL PUMP AUTO START
	EVENT POINT 161
• TBP-3 STARTER CLOSED WITH CONTROL HANDLE	IN NORMAL AFTER STOP POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALAF	
REDUNDANT INDICATION WHICH WILL VERIFY ALAF • RED LIGHT IS ON WITH A GREEN FLAG ON COM OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF OIL PUMP AUTO START • CHECK MAIN LUBE OIL PRESSURE.	ITROL STATION.
<ul> <li>RED LIGHT IS ON WITH A GREEN FLAG ON COM</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF OIL PUMP AUTO START</li> </ul>	ITROL STATION.
<ul> <li>RED LIGHT IS ON WITH A GREEN FLAG ON CONO OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF OIL PUMP AUTO START CHECK MAIN LUBE OIL PRESSURE.</li> </ul>	ITROL STATION.

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ENCLOSURE 1 (Page 5 of 108)

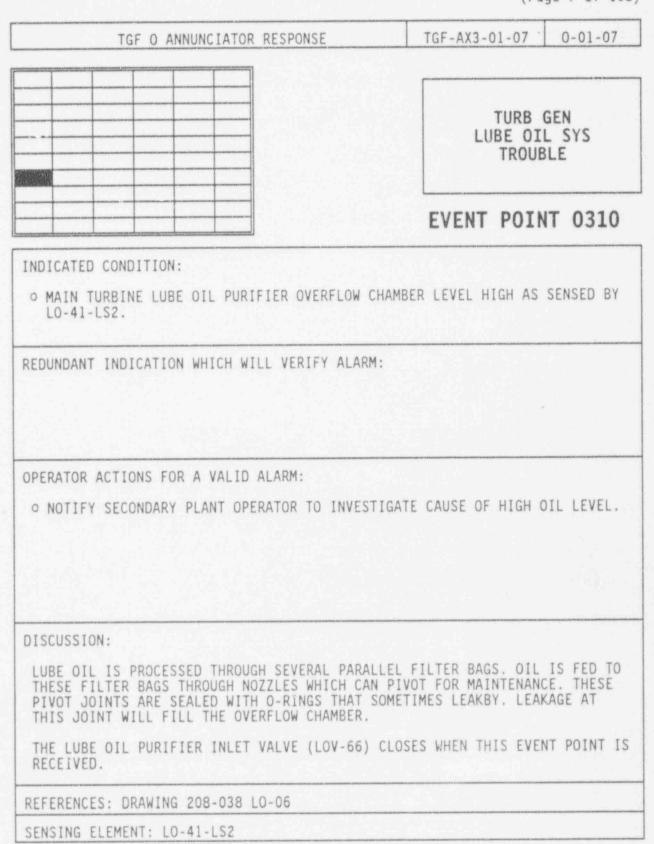
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-05	0-01-05
	HP SEA BACKUP TRI	PUMP
	EVENT POI	NT 1616
INDICATED CONDITION:		
• TBP-8 BREAKER OPEN WITH CONTROL HANDLE I	N NORMAL AFTER START	POSITION.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
○ GREEN LIGHT IS ON WITH A RED FLAG ON CON		
○ GREEN LIGHT IS ON WITH A RED FLAG ON CON		
OPERATOR ACTIONS FOR A VALID ALARM:	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING. • INVESTIGATE CAUSE OF TBP-8 TRIP.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING. • INVESTIGATE CAUSE OF TBP-8 TRIP.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING. • INVESTIGATE CAUSE OF TBP-8 TRIP.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING. • INVESTIGATE CAUSE OF TBP-8 TRIP.	TROL STATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 • ENSURE TBP-5 OR TBP-10 IS RUNNING.	TROL STATION.	

ENCLOSURE 1 (Page 6 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-06 0-01-
	HP SEAL OIL BACKUP PUMP AUTO START
	EVENT POINT 161
REDUNDANT INDICATION WHICH WILL VERIEV ALARM.	
○ RED LIGHT IS ON WITH A GREEN FLAG ON CONTR	
○ RED LIGHT IS ON WITH A GREEN FLAG ON CONTR	
○ RED LIGHT IS ON WITH A GREEN FLAG ON CONTR	ROL STATION.
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF TBP-8 AUTO START. • CHECK OPERATION OF RUNNING TURBINE GENERAT	ROL STATION.
<ul> <li>RED LIGHT IS ON WITH A GREEN FLAG ON CONTROPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF TBP-8 AUTO START.</li> <li>CHECK OPERATION OF RUNNING TURBINE GENERATION OF RUNNING TURBINE GENERATION CHECK MAIN LUBE OIL PRESSURE.</li> </ul>	TOR OIL AND SEAL OIL PUMP(S)
<ul> <li>RED LIGHT IS ON WITH A GREEN FLAG ON CONTROPORATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF TBP-8 AUTO START.</li> <li>CHECK OPERATION OF RUNNING TURBINE GENERATION OF RUNNING TURBINE GENERATION CHECK MAIN LUBE OIL PRESSURE.</li> </ul> DISCUSSION: SEAL OIL PRESSURE <10 PSIG AS SENSED BY TB-2	TOR OIL AND SEAL OIL PUMP(S)

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TURB GEN LUBE OIL SYS TROUBLE			(Page 8 of 1
LUBE OIL SYS TROUBLE         LUBE OIL SYS TROUBLE         EVENT POINT 031:         INDICATED CONDITION:         0 LOP-1 TRIPPED.         REDUNDANT INDICATION WHICH WILL VERIFY ALARM:         OPERATOR ACTIONS FOR A VALID ALARM:         0 NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP.         DISCUSSION:         LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP.         MAIN PURIFIER OIL LEVEL IS SENSED BY L0-25-LS. ON A DECREASING LEVEL THI         SWITCH WILL OPEN DROPPING OUT 3L0-25-LS. RELAY. THIS TIPS LOP-1 AND WITH         THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI		TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07 0-01-07
LUBE OIL SYS TROUBLE         LUBE OIL SYS TROUBLE         EVENT POINT 031:         INDICATED CONDITION:         0 LOP-1 TRIPPED.         REDUNDANT INDICATION WHICH WILL VERIFY ALARM:         OPERATOR ACTIONS FOR A VALID ALARM:         0 NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP.         DISCUSSION:         LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP.         MAIN PURIFIER OIL LEVEL IS SENSED BY L0-25-LS. ON A DECREASING LEVEL THI         SWITCH WILL OPEN DROPPING OUT 3L0-25-LS. RELAY. THIS TIPS LOP-1 AND WITH         THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI			
TROUBLE         INDICATED CONDITION:         0 LOP-1 TRIPPED.         REDUNDANT INDICATION WHICH WILL VERIFY ALARM:         OPERATOR ACTIONS FOR A VALID ALARM:         0 NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP.         DISCUSSION:         LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP.         MAIN PURIFIER OIL LEVEL IS SENSED BY L0-25-LS. ON A DECREASING LEVEL THI         SWITCH WILL OPEN DROPPING OUT 3L0-25-LS. RELAY. THIS TIPS LOP-1 AND WITH         THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI			TURB GEN
INDICATED CONDITION: • LOP-1 TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION: LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP. MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS. ON A DECREASING LEVEL THI THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI			
INDICATED CONDITION: • LOP-1 TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION: LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP. MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS. RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI			
<ul> <li>O LOP-1 TRIPPED.</li> <li>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP.</li> </ul> </li> <li>DISCUSSION:         <ul> <li>LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP.</li> <li>MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI</li> </ul> </li> </ul>			EVENT POINT 0311
<ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF PUMP TRIP.</li> <li>DISCUSSION:</li> <li>LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP.</li> <li>MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI</li> </ul>	RED	UNDANT INDICATION WHICH WILL VERIFY ALAR	ι <b>Μ</b> :
DISCUSSION: LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP. MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI			!M :
LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP. MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI	OPE	RATOR ACTIONS FOR A VALID ALARM:	
LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIER CIRCULATING PUMP. MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25-LS. ON A DECREASING LEVEL THI SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON COMDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI	OPE	RATOR ACTIONS FOR A VALID ALARM:	
SWITCH WILL OPEN DROPPING OUT 3LO-25-LS RELAY. THIS TRIPS LOP-1 AND WITH THE CONTROL HANDLE IN NORMAL AFTER START, WILL ALARM. THIS IS A COMMON CONDITION AFTER LOV-66 HAS CLOSED. LOP-2A AND LOP-2B ARE ALSO TRIPPED WI	OPE	RATOR ACTIONS FOR A VALID ALARM: NOTIFY SECONDARY PLANT OPERATOR TO INVES	
	OPE o DIS	RATOR ACTIONS FOR A VALID ALARM: NOTIFY SECONDARY PLANT OPERATOR TO INVES	STIGATE CAUSE OF PUMP TRIP.
	OPE O DIS LC MA SW TF CC A	RATOR ACTIONS FOR A VALID ALARM: NOTIFY SECONDARY PLANT OPERATOR TO INVES CUSSION: OP-1 IS THE MAIN TURBINE LUBE OIL PURIFIE IN PURIFIER OIL LEVEL IS SENSED BY LO-25 HITCH WILL OPEN DROPPING OUT 3LO-25-LS RE HE CONTROL HANDLE IN NORMAL AFTER START, ONDITION AFTER LOV-66 HAS CLOSED. LOP-2A	TIGATE CAUSE OF PUMP TRIP. R CIRCULATING PUMP. S-LS. ON A DECREASING LEVEL THI ELAY. THIS TRIPS LOP-1 AND WITH WILL ALARM. THIS IS A COMMON

ENCLOSURE 1 (Page 9 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
		ver a second of the second
	TURB LUBE 01	
	TROU	
	EVENT POI	NT 0312
INDICATED CONDITION:		
◦ LOP-2A TRIPPED.		
REDUNDANT INDICATION WHICH WILL VERIFT ALAR	1:	
		TRIP.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION:	TIGATE CAUSE OF PUMP	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION: LOP-2A IS THE "A" FEED PUMP LUBE OIL PURIF	TIGATE CAUSE OF PUMP	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION:	TIGATE CAUSE OF PUMP IER CIRCULATING PUMP Y 3FW-207-LS) INCREAS BY 3L0-25-LS) WILL	SING OIL
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION: LOP-2A IS THE "A" FEED PUMP LUBE OIL PURIF EITHER "A" FW TURBINE CONSOLE (AS SENSED B LEVEL OR LOW PURIFIER OIL LEVEL (AS SENSED B A HIGH CONSOLE OIL LEVEL MAY BE CAUSED BY	TIGATE CAUSE OF PUMP IER CIRCULATING PUMP Y 3FW-207-LS) INCREAS BY 3L0-25-LS) WILL	SING OIL

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ENCLOSURE 1 (Page 10 of 108)

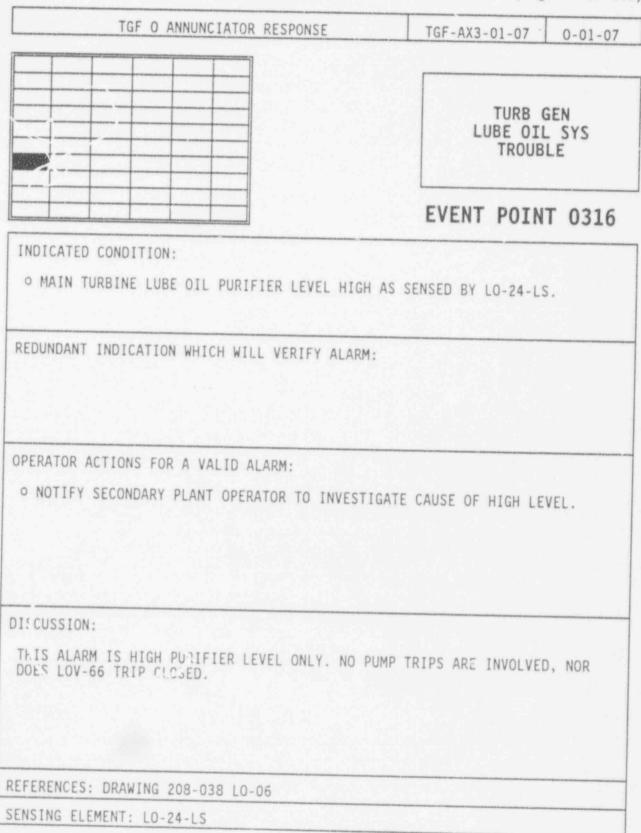
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07 0-01-07
	TURB GEN LUBE OIL SYS TROUBLE
	EVENT POINT 0313
NDICATED CONDITION: ○ LOP-2B TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	TIGATE CAUSE OF PUMP TRIP.
생각 이번 이번 것이 있는 것이 같은 것이 같이 있는 것이 없다.	IER CIRCULATING PUMP. Y 3FW-208-LS) INCREASING OIL BY 3L0-25-LS) WILL TRIP LOP-2B
<ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>DISCUSSION:</li> <li>LOP-2B IS THE "B" FEED PUMP LUBE OIL PURIFI</li> <li>EITHER "B" FW TURBINE CONSOLE (AS SENSED B)</li> <li>LEVEL OR LOW PURIFIER OIL LEVEL (AS SENSED A HIGH CONSOLE OIL LEVEL MAY BE CAUSED BY A</li> </ul>	IER CIRCULATING PUMP. Y 3FW-208-LS) INCREASING OIL BY 3L0-25-LS) WILL TRIP LOP-2B

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ENCLOSURE 1 (Page 11 of 108)

TGF-AX3-01-07 0-01-07 TGF O ANNUNCIATOR RESPONSE TURB GEN LUBE OIL SYS TROUBLE **EVENT POINT 0315** INDICATED CONDITION: ○ LOF-1 TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: OPERATOR ACTIONS FOR A VALID ALARM: O NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF FAN TRIP. DISCUSSION: LOF-1 IS THE MAIN TURBINE LUBE OIL PURIFIER EXHAUSTER FAN. THIS FAN NORMALLY RUNS CONTINUOUSLY AND HAS NO TRIPS OTHER THAN NORMAL BREAKER OVERCURRENT DEVICES. (INSTANTANEOUS AND THERMAL OVERLOAD) REFERENCES: DRAWING 208-038 LO-05 SENSING ELEMENT: 42/B BREAKER CONTACT

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ENCLOSURE 1 (Page 13 of 108)

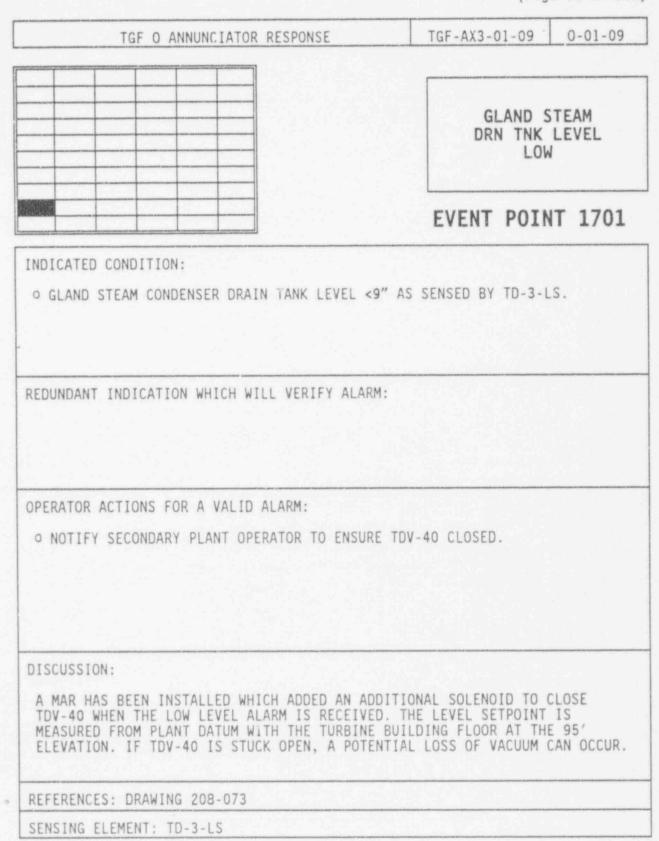
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROUI	L SYS
	EVENT POIL	NT 0317
NDICATED CONDITION:		
<ul> <li>FEEDWATER TURBINE LUBE OIL PURIFIER OV SENSED BY LO-41-LS1.</li> </ul>	RFLOW CHAMBER LEVEL HI	GH AS
REDUNDANT INDICATION WHICH WILL VERIFY AL	ARM:	
DPERATOR ACTIONS FOR A VALID ALARM:		OIL LEVEL.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INV		OIL LEVEL.
OPERATOR ACTIONS FOR A VALID ALARM:	RALLEL FILTER BAGS. OIL CAN PIVOT FOR MAINTENAN T SOMETIMES LEAKBY. LEA	IS FED TO CE. THESE
DPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INV DISCUSSION: LUBE OIL IS PROCESSED THROUGH SEVERAL PA THESE FILTER BAGS THROUGH NOZZLES WHICH PIVOT JOINTS ARE SEALED WITH 0-RINGS THA	RALLEL FILTER BAGS. OIL CAN PIVOT FOR MAINTENAN T SOMETIMES LEAKBY. LEA R.	IS FED TO CE. THESE KAGE AT

ENCLOSURE 1 (Page 14 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROUN	L SYS
	EVENT POIN	NT 0318
INDICATED CONDITION: • FEEDWATER TURBINE LUBE OIL PURIFIER OVER BY LO-25-LS.	FLOW CHAMBER LEVEL LO	W AS SENSED
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES	TIGATE CAUSE OF LOW O	IL LEVEL.
가지 이번 방법에 가지 않는다. 전쟁이 있는 것이 같은 것이 없는 것이 없 않는 것이 없는 것이 않이 않는 것이 없는 것이 않이		IL LEVEL.
• NOTIFY SECONDARY PLANT OPERATOR TO INVES		IL LEVEL.

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ENCLOSURE 1 (Page 16 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10	0-01-10
	GLAND SYST TROU	TEM
	EVENT POI	NT 0252
INDICATED CONDITION: • GLAND STEAM EXHAUST PRESSURE >10" H <sub>2</sub> 0 AS	SENSED BY GS-1-PS.	
	RM :	
REDUNDANT INDICATION WHICH WILL VERIFY ALAF		
	STIGATE CAUSE OF HIGH DN. KHAUST CONDENSER	PRESSURE .
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • ENSURE ONE GLAND EXHAUST FAN IN OPERATIO • ENSURE THE FOLLOWING: CONDENSATE FLOW TO GLAND STEAM EN FAN IS NOT FULL OF WATER GLAND STEAM SUPPLY IS NOT EXCESS	STIGATE CAUSE OF HIGH DN. KHAUST CONDENSER	PRESSURE.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • ENSURE ONE GLAND EXHAUST FAN IN OPERATIO • ENSURE THE FOLLOWING: CONDENSATE FLOW TO GLAND STEAM E) FAN IS NOT FULL OF WATER	STIGATE CAUSE OF HIGH DN. KHAUST CONDENSER	PRESSURE .

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10 0-01-10
	GLAND STEAM SYSTEM TROUBLE
	EVENT POINT 0253
INDICATED CONDITION: • GSF-1A TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • GREEN LIGHT IS ON WITH A RED FLAG ON CONT	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • PLACE ALTERNATE GLAND EXHAUST FAN IN OPEN	TIGATE CAUSE OF FAN TRIP. RATION.
DISCUSSION:	
REFERENCES: DRAWING 208-033 GS-01	

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ENCLOSURE 1 (Page 18 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10 0-01-1
	GLAND STEAM SYSTEM TROUBLE
	EVENT POINT 025
INDICATED CONDITION: • GSF-1B TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	
○ GREEN LIGHT IS ON WITH A RED FLAG ON CONT	
<ul> <li>O GREEN LIGHT IS ON WITH A RED FLAG ON CONT</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>PLACE ALTERNATE GLAND EXHAUST FAN IN OPER</li> </ul>	ROL STATION.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	TIGATE CAUSE OF FAN TRIP.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST • PLACE ALTERNATE GLAND EXHAUST FAN IN OPER	TIGATE CAUSE OF FAN TRIP.

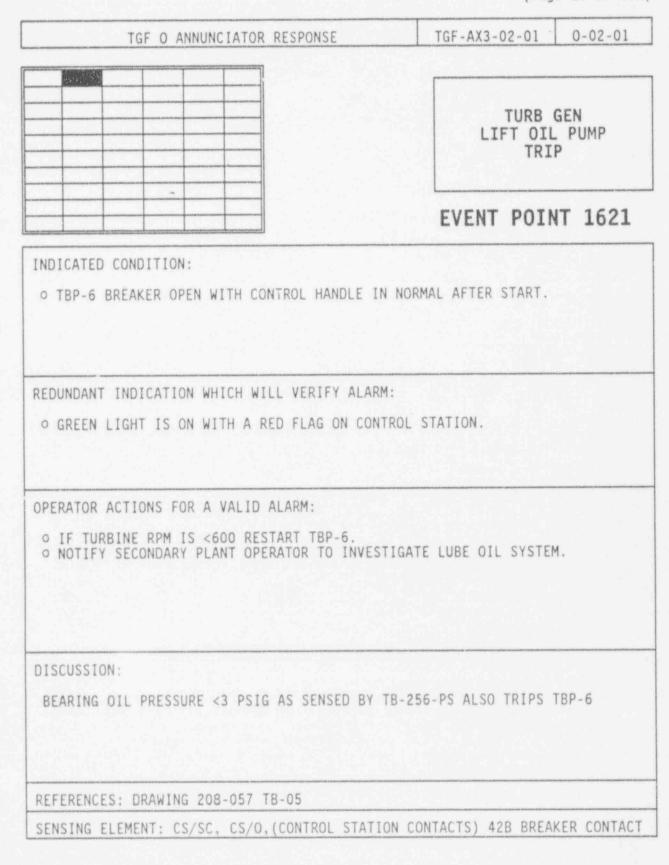
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ENCLOSURE 1 (Page 19 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10	0-01-10
language de la constant de la const		
	GLAND S	TEAM
	SYST	EM
	EVENT POIN	IT 0255
NDICATED CONDITION: • GLAND STEAM PRESSURE IS ONE OF THE FOLLO	WING:	
HP TURBINE SUPPLY >6.1 PSIG AS SENSE		
OR ANY LP TURBINE <.5 PSIG AS SENSED BY		PS
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:	
O COMPUTER POINTS TOO1 THROUGH TOO5 MONITO LOW PRESSURE AND HIGH PRESSURE TURBINE G	R GLAND STEAM PRESSURE	ES FOR THE
LON TRESSORE AND MEAN TRESSORE TORSALE		
		ESSURES.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES		ESSURES.
OPERATOR ACTIONS FOR A VALID ALARM:	TIGATE GLAND STEAM PRE TURBINE 3A. URBINE 3A. TURBINE 3B.	ESSURES.
DPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION: GS-28-PS MONITORS THE GENERATOR END OF LP GS-29-PS MONITORS THE GOVERNOR END OF LP T GS-32-PS MONITORS THE GENERATOR END OF LP T	TIGATE GLAND STEAM PRE TURBINE 3A. URBINE 3A. TURBINE 3B.	ESSURES.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION: GS-28-PS MONITORS THE GENERATOR END OF LP GS-29-PS MONITORS THE GOVERNOR END OF LP T GS-32-PS MONITORS THE GENERATOR END OF LP T	TIGATE GLAND STEAM PRE TURBINE 3A. URBINE 3A. TURBINE 3B.	ESSURES.

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ENCLOSURE 1 (Page 21 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-02	0-02-02
	TURB	GEN
	LIFT OIL LOV	PRESS
	EVENT POIN	NT 1620
INDICATED CONDITION: • TURBINE GENERATOR BEARING LIFT OIL PRESS BY TB-331-PS.	URE <850 PSIG AS SENS	ED
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:	
	M:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
	N IS CLEAR.	М.
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBM-1 IS SHUTDOWN. • DO NOT ROLL TURBINE UNTIL ALARM CONDITIO	N IS CLEAR.	Μ.
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBM-1 IS SHUTDOWN. • DO NOT ROLL TURBINE UNTIL ALARM CONDITIO • NOTIFY SECONDARY PLANT OPERATOR TO INVES	N IS CLEAR. TIGATE LUBE OIL SYSTE	AUSE THE
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBM-1 IS SHUTDOWN. • DO NOT ROLL TURBINE UNTIL ALARM CONDITIO • NOTIFY SECONDARY PLANT OPERATOR TO INVES DISCUSSION: THIS CONDITION SHOULD BE CORRECTED EXPEDIT TURBINE TO BE IDLE FOR AN EXTENDED PERIOD	N IS CLEAR. TIGATE LUBE OIL SYSTE	AUSE THE

ENCLOSURE 1 (Page 22 of 108)

TURB GEN OIL PRESS PRETRIP         EVENT POINT 163         INDICATED CONDITION:         • TURBINE GENERATOR BEARING OIL PRESSURE <6 PSIG AS SENSED BY TB-267-PS.         INDICATED CONDITION WHICH WILL VERIFY ALARM:         • TURBINE TRIP         OPERATOR ACTIONS FOR A VALID ALARM:         • TURBINE TRIP         OPERATOR ACTIONS FOR A VALID ALARM:         • REFER TO AP-660.         • CHECK MAIN LUBE OIL PRESSURE.         • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM.         DISCUSSION:         TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG         REFERENCES: DRAWING 208-057 TB-15		TGF-AX3-02-03 0-02-0
OIL PRESS PRETRIP         INDICATED CONDITION:         • TURBINE GENERATOR BEARING OIL PRESSURE <6 PSIG AS SENSED BY TB-267-PS.		
INDICATED CONDITION: • TURBINE GENERATOR BEARING OIL PRESSURE <6 PSIG AS SENSED BY TB-267-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		OIL PRESS
• TURBINE GENERATOR BEARING OIL PRESSURE <6 PSIG AS SENSED BY TB-267-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		EVENT POINT 163
• TURBINE GENERATOR BEARING OIL PRESSURE <6 PSIG AS SENSED BY TB-267-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	INDICATED CONDITION:	
• TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		PSIG AS SENSED BY TB-267-PS.
• TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		
• TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		
• TURBINE TRIP OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		
OPERATOR ACTIONS FOR A VALID ALARM: O REFER TO AP-660. O CHECK MAIN LUBE OIL PRESSURE. O NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM. DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
<ul> <li>REFER TO AP-660.</li> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM.</li> </ul> DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	O TURBINE TRIP	
<ul> <li>REFER TO AP-660.</li> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM.</li> </ul> DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG		
<ul> <li>REFER TO AP-660.</li> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM.</li> </ul> DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	OPERATOR ACTIONS FOR A VALID ALARM:	
<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE LUBE OIL SYSTEM.</li> </ul> DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	ALENTIAL RELIGIOUS FOR A THELP REMAIN	
DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	A REFER TO AR SEA	
TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	O CHECK MAIN LUBE OIL PRESSURE.	TTATE LUDE ATL SUCTON
TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	O CHECK MAIN LUBE OIL PRESSURE.	TIGATE LUBE OIL SYSTEM.
TURBINE TRIP ON LOW MAIN TURBINE BEARING OIL PRESSURE IS >5 PSIG AND <7 PSIG	O CHECK MAIN LUBE OIL PRESSURE.	FIGATE LUBE OIL SYSTEM.
PSIG	O CHECK MAIN LUBE OIL PRESSURE.	FIGATE LUBE OIL SYSTEM.
PSIG	<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> </ul>	FIGATE LUBE OIL SYSTEM.
REFERENCES: DRAWING 208-057 TB-15	<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>DISCUSSION:</li> </ul>	
REFERENCES: DRAWING 208-057 TB-15	<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>DISCUSSION:</li> <li>TURBINE TRIP ON LOW MAIN TURBINE BEARING O</li> </ul>	
KEFEKENUES: UKAWING 200-007 18-15	<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>DISCUSSION:</li> <li>TURBINE TRIP ON LOW MAIN TURBINE BEARING O</li> </ul>	
SENSING ELEMENT: TB-267-PS	<ul> <li>CHECK MAIN LUBE OIL PRESSURE.</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> <li>DISCUSSION:</li> <li>TURBINE TRIP ON LOW MAIN TURBINE BEARING O PSIG</li> </ul>	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-04	0-02-04
	TURB EMERG B OVERL	RG PP
	EVENT POIN	T 1619
INDICATED CONDITION: • TBP-3 MOTOR OVERLOAD.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	۹:	an an direction and a direct direction of a link of a direction of a direction of a direction of a direction of
○ WHITE INDICATING LIGHT IS OUT (LUBE OIL F	PRESSURE <25 PSIG)	
<ul> <li>WHITE INDICATING LIGHT IS OUT (LUBE OIL FOR A VALID ALARM:</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>O IF TURBINE ROLLING THEN START TBP-2.</li> <li>O CHECK MAIN LUBE OIL PRESSURE.</li> <li>O NOTIFY SECONDARY PLANT OPERATOR TO INVEST BREAKER</li> </ul>		AD ON
OPERATOR ACTIONS FOR A VALID ALARM: • IF TURBINE ROLLING THEN START TBP-2. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVEST BREAKER DISCUSSION: THIS ALARM TELLS YOU THE THERMAL OVERLOAD	TIGATE THERMAL OVERLO HAS TRIPPED. YOU MAY ATION. IF THE PUMP IS ON THE CONTROL STATIO	STILL HAVE NOT IN
OPERATOR ACTIONS FOR A VALID ALARM: • IF TURBINE ROLLING THEN START TBP-2. • CHECK MAIN LUBE OIL PRESSURE. • NOTIFY SECONDARY PLANT OPERATOR TO INVEST BREAKER DISCUSSION: THIS ALARM TELLS YOU THE THERMAL OVERLOAD IN THE RED INDICATING LIGHT ON THE CONTROL ST OPERATION THEN THE WHITE INDICATING LIGHT	TIGATE THERMAL OVERLO HAS TRIPPED. YOU MAY ATION. IF THE PUMP IS ON THE CONTROL STATIO	STILL HAVE NOT IN

ENCLOSURE 1 (Page 24 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-05	0-02-05
	TG LU	BE OIL
		LEVEL I/LOW
	EVENT POI	INT 1636
○ TURBINE LUBE OIL TANK LEVEL >6.9' AS SENS	ED BY TB-248-LS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		Έ.
OPERATOR ACTIONS FOR A VALID ALARM:		Ξ.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		1

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-05	0-02-05
	P	
	TG LUBE	OTL
	RESVR L HIGH/L	EVEL
	niún/ c	.04
	EVENT POIN	T 1637
	LVENT FOIN	1 1007
INDICATED CONDITION:		
• TURBINE LUBE OIL TANK LEVEL <5.9' AS SENS	ED BY TB-248-LS.	
O TORDINE LODE OIL TARK LEVEL CO.S AS SEAS		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
REDUNDARY INDICATION WHICH WILL VERTET ALARM		
REDUNDANT INDICATION WHICH WILL VERTET ALARM		
REDUNDANT INDICATION WHICH WILL VERTET ALARM		
REDUNDANT INDICATION WHICH WILL VERTET ALARM		
REDUNDANT INDICATION WHICH WILL VERTY ALARM		
OPERATOR ACTIONS FOR A VALID ALARM:		
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OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		
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OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		
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OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		

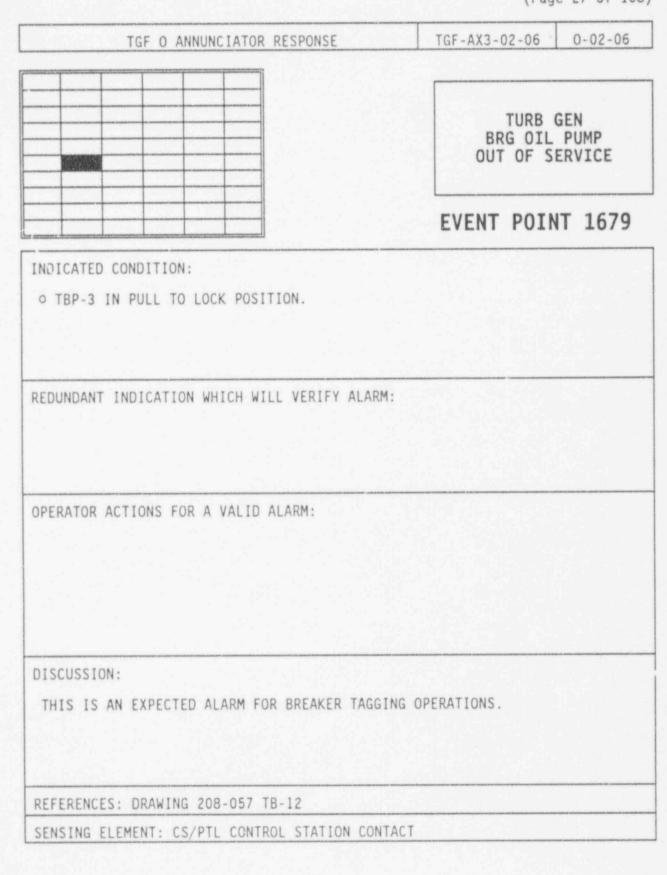
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	TGF-AX3-02-06 0-02-06
	TURB GEN BRG OIL PUMP OUT OF SERVICE
	EVENT POINT 167
NDICATED CONDITION: • TBP-2 IN PULL TO LOCK POSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:
	THE REPORT OF TH
OPERATOR ACTIONS FOR A VALID ALARM:	
	ING OPERATIONS.
OPERATOR ACTIONS FOR A VALID ALARM: DISCUSSION: THIS IS AN EXPECTED ALARM FOR BREAKER TAG3 REFERENCES: DRAWING 208-057 TB-03	ING OPERATIONS.

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-07	0-02-07
	TG LUBE OIL VAPOR EXTRCT TROUBLE EVENT POINT 1622	
INDICATED CONDITION: • TURBINE GENERATOR LUBE OIL RESERVOIR PRE BY TB-285-PS.	SSURE <1.3″ H <sub>2</sub> O VACUUM	I AS SENSED
ALADINE THE TOTAL THIT OF LITE UPDTEN ALAD		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
	TIGATE TURBINE OIL RE	SERVOIR
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER O	TIGATE TURBINE OIL RE	SERVOIR
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES	TIGATE TURBINE OIL RE PERATION.	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER O DISCUSSION: A MISADJUSTED FAN DAMPER AND/OR EXCESSIVE	TIGATE TURBINE OIL RE PERATION. AIR INLEAKAGE COULD C SMALL NEGATIVE PRESSU FAN HAS A DISCHARGE D	AUSE THIS RE ON THE
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER O DISCUSSION: A MISADJUSTED FAN DAMPER AND/OR EXCESSIVE ALARM. THE RESERVOIR VAPOR EXTRACTOR FAN KEEPS A TURBINE GENERATOR LUBE OIL RESERVOIR. THE	TIGATE TURBINE OIL RE PERATION. AIR INLEAKAGE COULD C SMALL NEGATIVE PRESSU FAN HAS A DISCHARGE D	AUSE THIS RE ON THE

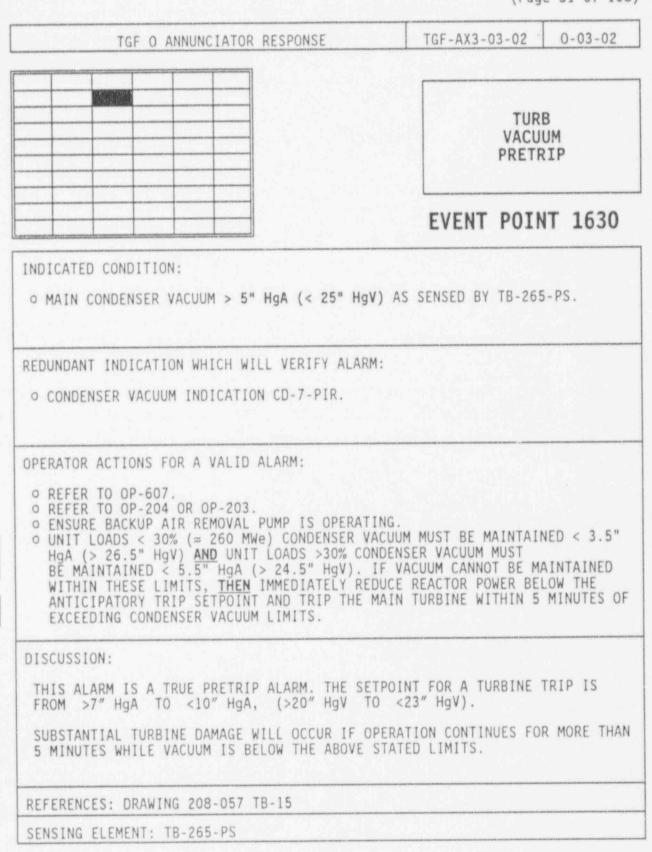
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ENCLOSURE 1 (Page 29 of 108) 0-02-07 TGF-AX3-02-07 · TGF O ANNUNCIATOR RESPONSE TG LUBE OIL VAPOR EXTRCT TROUBLE **EVENT POINT 1643** INDICATED CONDITION: O TURBINE GENERATOR SEAL OIL LOOP SEAL OIL TANK PRESSURE <0.5" H,0 VACUUM AS SENSED BY TB-304-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O COMPUTER POINT GOOI AS SENSED BY TB-304-PS. OPERATOR ACTIONS FOR A VALID ALARM: O NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE GENERATOR BEARING OIL DRAIN TANK VAPOR EXTRACTOR FAN (TBP-9) FOR PROPER OPERATION. DISCUSSION: THE SEAL OIL VAPOR EXTRACTOR FAN KEEPS A SMALL NEGATIVE PRESSURE ON THE TURBINE GENERATOR SEAL OIL LOOP SEAL. THE FAN HAS A DISCHARGE DAMPER USED TO ADJUST FLOW TO MAINTAIN THIS SMALL VACUUM. REFERENCES: DRAWING 208-057 TB-08 SENSING ELEMENT: TB-285-PS

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-01	0-03-01
	MAIN TURB TRIP	
	EVENT POI	NT 1624
INDICATED CONDITION:		
O TURBINE AUTO STOP OIL PRESSURE <45 PSIG A	AS SENSED BY TB-324-F	PS.
영양 김 영양 이 것이 같이 있는 것을 가 없다.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	٩:	
○ TURBINE TRIPPED INDICATION ON EHC CONTROL		
• TURBINE TRIPPED INDICATION ON EHC CONTROL		
• TURBINE TRIPPED INDICATION ON EHC CONTROL		
• TURBINE TRIPPED INDICATION ON EHC CONTROL		
OPERATOR ACTIONS FOR A VALID ALARM:		
<ul> <li>TURBINE TRIPPED INDICATION ON EHC CONTROL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660 OR EOP.</li> <li>DISCUSSION:</li> <li>MAIN TURBINE TRIPS ARE AS FOLLOWS:</li> <li>LOW CONDENSER VACUUM &gt;7" HgA AND &lt;10" Hg/</li> <li>LOW BEARING OIL PRESSURE &lt;7 PSIG AND &gt;5 F</li> <li>TURBINE OVERSPEED &gt;1960 RPM</li> <li>EXCESSIVE AXIAL THRUST</li> </ul>	A (>20" HgV AND <2	3"HgV)
<ul> <li>TURBINE TRIPPED INDICATION ON EHC CONTROL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660 OR EOP.</li> <li>DISCUSSION:</li> <li>MAIN TURBINE TRIPS ARE AS FOLLOWS:</li> <li>LOW CONDENSER VACUUM &gt;7" HgA AND &lt;10" HgA</li> <li>LOW BEARING OIL PRESSURE &lt;7 PSIG AND &gt;5 H</li> <li>TURBINE OVERSPEED &gt;1960 RPM</li> </ul>	A (>20" HgV AND <2	3"HgV)
<ul> <li>TURBINE TRIPPED INDICATION ON EHC CONTROL</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660 OR EOP.</li> <li>DISCUSSION:</li> <li>MAIN TURBINE TRIPS ARE AS FOLLOWS:</li> <li>LOW CONDENSER VACUUM &gt;7" HgA AND &lt;10" HgA</li> <li>LOW BEARING OIL PRESSURE &lt;7 PSIG AND &gt;5 F</li> <li>TURBINE OVERSPEED &gt;1960 RPM</li> <li>EXCESSIVE AXIAL THRUST</li> <li>REACTOR TRIP</li> <li>MANUAL (LOCAL OR REMOTE)</li> </ul>	A (>20" HgV AND <2	3"HgV)

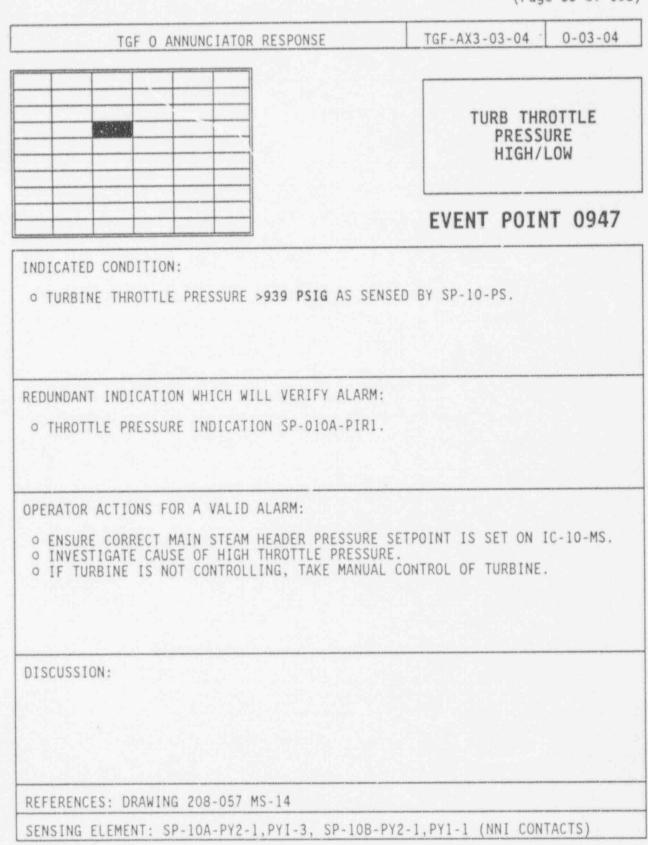
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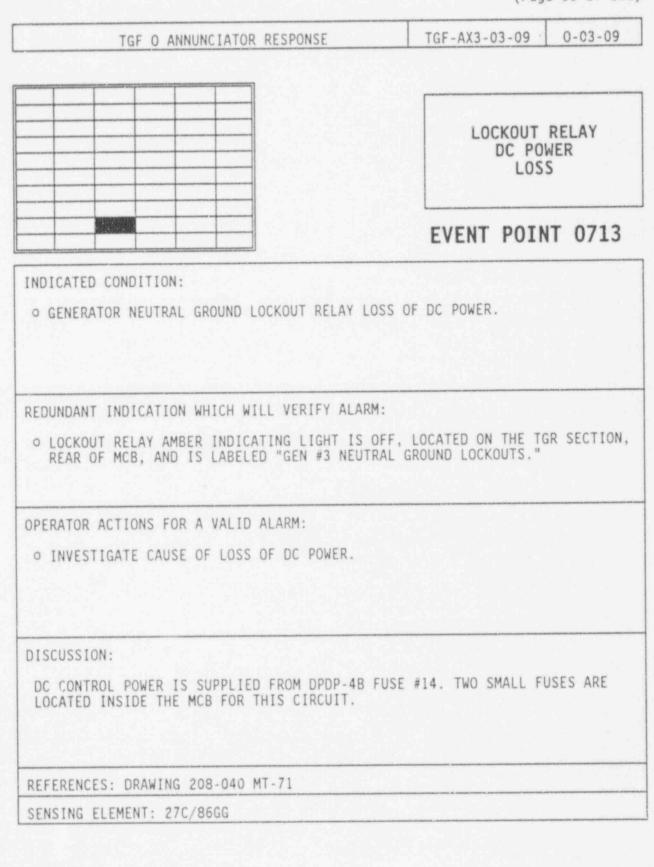
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-03	0-03-03
	THRUS	IRB ST BRG TRIP
	EVENT PO	INT 1629
O THRUST BEARING OIL PRESSURE >35 PSIG AS S	SENSED BY TB-266-PS	ana da cara da
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	u.	
REDUNDANT INDICATION WHICH WILL VERIFT ALART		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE TURBINE LOAD.		
OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE TURBINE LOAD. • REFER TO AP-660.		E TRIP IS
OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE TURBINE LOAD. • REFER TO AP-660. DISCUSSION: THIS ALARM IS A TRUE PRETRIP ALARM. THE SE		E TRIP IS

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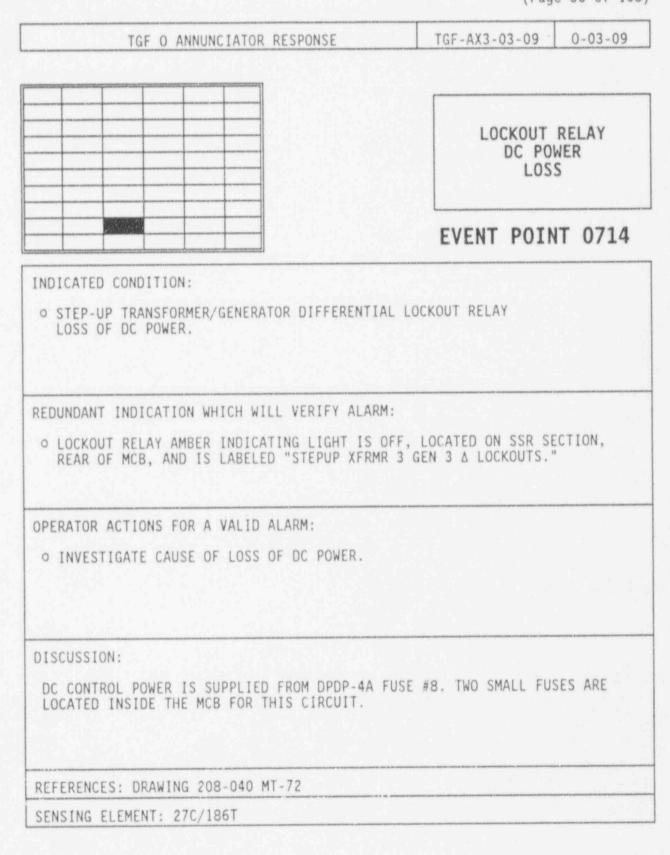


	ENCLOSURE 1 (Page 34 of 108
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-04 0-03-04
	TURB THROTTLE PRESSURE HIGH/LOW
	EVENT POINT 0948
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE CORRECT MAIN STEAM HEADER PRESSUR • INVESTIGATE CAUSE OF LOW THROTTLE PRESSU • IF TURBINE IS NOT CONTROLLING, TAKE MANU	RE.
DISCUSSION:	
DISCUSSION: REFERENCES: DRAWING 208-057 MS-14	

ENCLOSURE 1 (Page 35 of 108)



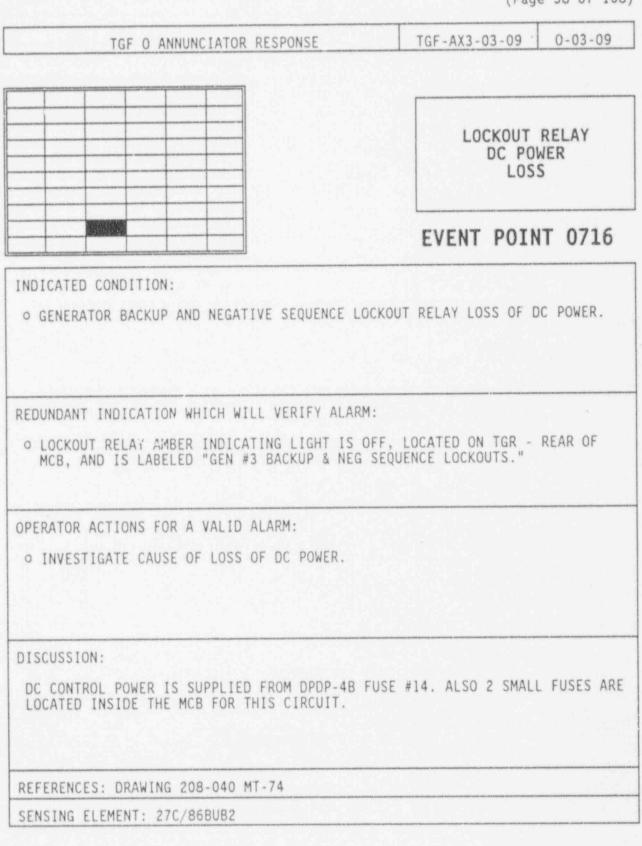
ENCLOSURE 1 (Page 36 of 108)



ENCLOSURE 1 (Page 37 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-	09 (	0-03-09
		OUT RE POWEI LOSS	
	EVENT P	OINT	0715
INDICATED CONDITION:			oursense station of the
• GENERATOR DIFFERENTIAL LOCKOUT RELAYS LO	SS OF DC POWER		
O GENERATOR DIFFERENTIAL COCROOT RELATS CO	55 OF DO FOREN.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:		
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS REAR OF MCB, AND IS LABELED "GEN #3 & LO	OFF, LOCATED ON TO	GR SECT	ION,
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS REAR OF MCB, AND IS LABELED "GEN #3 Δ LO</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> </ul>	OFF, LOCATED ON TO	GR SECT	ION,
REAR OF MCB, AND IS LABELED "GEN #3 ∆ LO	OFF, LOCATED ON TO	GR SECT	ION,
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON TO	GR SECT	ION,
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON TO	GR SECT	ION,
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	OFF, LOCATED ON TO	GR SECT	ION,
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER. DISCUSSION:	OFF, LOCATED ON TO		
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	OFF, LOCATED ON TO		
REAR OF MCB, AND IS LABELED "GEN #3 & LO OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER. DISCUSSION: DC CONTROL POWER IS SUPPLIED FROM DPDP-4A	OFF, LOCATED ON TO		

ENCLOSURE 1 (Page 38 of 108)



ENCLOSURE 1 (Page 39 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
an manaka ma		
	LOCKOUT DC PC LOS	OWER
	EVENT POI	NT 0717
INDICATED CONDITION:		
O GENERATOR FIELD FAILURE LOCKOUT RELAY LC	ASS OF DO DOWED	
O GENERATOR FIELD FAILURE LOCKOUT RELATER	JSS OF DC FOREN.	
CONCAST THOTOLETTON SUITCH STULL SEDIEV ALA	DM -	an har with the same to be an an an and the state
REDUNDANT INDICATION WHICH WILL VERIFY ALAN		
REDUNDANT INDICATION WHICH WILL VERIFY ALAN O LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	TGR KOUTS."
O LOCKOUT RELAY AMBER INDICATING LIGHT IS	OFF. LOCATED ON THE T	TGR KOUTS."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	rgr Kouts."
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	GR KOUTS."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	rgr Kouts."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	rgr Kouts."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN	OFF. LOCATED ON THE T	rgr Kouts."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> </ul>	OFF, LOCATED ON THE T	(OUTS."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	OFF, LOCATED ON THE T	(OUTS."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS SECTION - REAR MCB, AND IS LABELED "GEN</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM OPDP-4A</li> </ul>	OFF, LOCATED ON THE T	(OUTS."

ENCLOSURE 1 (Page 40 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09 0-03-09
	LOCKOUT RELAY DC POWER LOSS
	EVENT POINT 0718
NDICATED CONDITION:	
REDUNDANT INDICATION WHICH WILL VERIFY AL O LOCKOUT RELAY AMBER INDICATING LIGHT IN OF THE REAR MCB, AND IS LABELED "480V	S OFF, LOCATED ON THE SSR SECTION
REDUNDANT INDICATION WHICH WILL VERIFY AL O LOCKOUT RELAY AMBER INDICATING LIGHT IN OF THE REAR MCB, AND IS LABELED "480V OPERATOR ACTIONS FOR A VALID ALARM:	S OFF, LOCATED ON THE SSR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IN OF THE REAR MCB, AND IS LABELED "480V</li> </ul>	S OFF, LOCATED ON THE SSR SECTION
• LOCKOUT RELAY AMBER INDICATING LIGHT I OF THE REAR MCB, AND IS LABELED "480V OPERATOR ACTIONS FOR A VALID ALARM:	S OFF, LOCATED ON THE SSR SECTION
• LOCKOUT RELAY AMBER INDICATING LIGHT I OF THE REAR MCB, AND IS LABELED "480V OPERATOR ACTIONS FOR A VALID ALARM:	S OFF, LOCATED ON THE SSR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	S OFF, LOCATED ON THE SSR SECTION ES BUS A UV LK/OT 8627/ESA." A FUSE #6. TWO SMALL FUSES ARE
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V</li> <li>DPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-5</li> </ul>	S OFF, LOCATED ON THE SSR SECTION ES BUS A UV LK/OT 8627/ESA." A FUSE #6. TWO SMALL FUSES ARE

ENCLOSURE 1 (Page 41 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	[	
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 0721
NDICATED CONDITION:		
edundant indication which will verify alar o lockout relay amber indicating light is of the rear McB, and is labeled "gen #3	OFF, LOCATED ON THE TO	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "GEN #3</li> </ul>	OFF, LOCATED ON THE TO	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "GEN #3</li> </ul>	OFF, LOCATED ON THE TO	GR SECTION
• LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "GEN #3 OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
OF THE REAR MCB, AND IS LABELED "GEN #3	OFF, LOCATED ON THE TO	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "GEN #3</li> <li>DPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	OFF, LOCATED ON THE TO VOLTS/HERTZ LOCKOUTS.'	"
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "GEN #3</li> <li>DPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-4A</li> </ul>	OFF, LOCATED ON THE TO VOLTS/HERTZ LOCKOUTS.'	"

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ENCLOSURE 1 (Page 42 of 108)

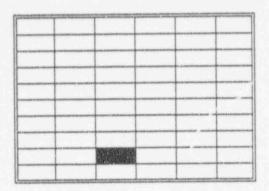
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 0723
NDICATED CONDITION:		
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V ES</li> </ul>	OFF, LOCATED ON THE S	SR SECTION ESB."
OF THE REAR MCB, AND IS LABELED "480V ES	OFF, LOCATED ON THE S	SR SECTION ESB."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V ES</li> </ul>	OFF, LOCATED ON THE S	SR SECTION ESB."
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V ES OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE S	SR SECTION ESB."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V ES</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	OFF, LOCATED ON THE S BUS B UV LK/OT 8627/1	ESB."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "480V ES</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-5B</li> </ul>	OFF, LOCATED ON THE S BUS B UV LK/OT 8627/1	ESB."

ENCLOSURE 1 (Page 43 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO	WER
	EVENT POI	
INDICATED CONDITION:		2
• STEP-UP TRANSFORMER SUDDEN PRESSURE LOCKOU	JT RELAY LOSS OF DC	POWER.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF	F. LOCATED ON THE S	SR SECTION OCKOUTS."
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF	F. LOCATED ON THE S	SR SECTION OCKOUTS."
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	F. LOCATED ON THE S	SR SECTION OCKOUTS."
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF OPERATOR ACTIONS FOR A VALID ALARM:	F. LOCATED ON THE S	SR SECTION OCKOUTS."
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF OPERATOR ACTIONS FOR A VALID ALARM:	F. LOCATED ON THE S	SR SECTION OCKOUTS."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	F, LOCATED ON THE S MR 3 SUDDEN PRESS L	OCKOUTS."
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB, AND IS LABELED "STEPUP XF</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-4B FU</li> </ul>	F, LOCATED ON THE S MR 3 SUDDEN PRESS L	OCKOUTS."

ENCLOSURE 1

	(Pag	e 44 of 108)
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09



LOCK	OUT	REL	AY	
	PO			
00				
	LOS	3		

## **EVENT POINT 0725**

INDICATED CONDITION:

O UNIT AUX TRANSFORMER LOCKOUT RELAY LOSS OF DC POWER.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O FOR THE UNIT AUX TRANSFORMER ONE OR MORE OF THE FOLLOWING: PHASE DIFFERENTIAL NEUTRAL GROUND SUDDEN PRESSURE LOCKOUT RELAY AMBER INDICATING LIGHTS ARE OFF, LOCATED ON THE SSR SECTION OF THE REAR MCB, AND ARE LABELED "UNIT AUX XFMR 3."

OPERATOR ACTIONS FOR A VALID ALARM:

O INVESTIGATE CAUSE OF LOSS OF DC POWER.

DISCUSSION:

DC CONTROL POWER IS SUPPLIED FROM THE FOLLOWING: NEUTRAL GND DPDP-4A FUSE #11 / PHASE DIFFERENTIAL DPDP-4B FUSE #15 / SUDDEN PRESSURE DPDP-4A FUSE #11.

TWO SMALL FUSES ARE LOCATED INSIDE THE MCB FOR EACH CIRCUIT.

REFERENCES: DRAWING 208-040, MT-81, 82, 83

SENSING ELEMENT: 27C/86TNUA/86TUA/86SPSUA

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PC LOS	WER
	EVENT POINT 07	
INDICATED CONDITION:		
12 Sector and the sector state of states in		
• BACKUP TRANSFORMER LOCKOUT RELAY LOSS 0	F DC POWER.	
SCHUNDANT INDICATION LUTPU LITU VEDIEV ALA	CM.	
REDUNDANT INDICATION WHICH WILL VERIFY ALA		
REDUNDANT INDICATION WHICH WILL VERIFY ALA O FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
<ul> <li>FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A</li> </ul>	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
O FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM:	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
<ul> <li>FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED</li> </ul>	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
O FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM:	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
O FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM:	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
O FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM:	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE	
<ul> <li>FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul> </li> <li>DISCUSSION:</li> </ul>	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE BACKUP ES XFMR LK/OT	RLY."
<ul> <li>FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE BACKUP ES XFMR LK/OT RESETTING ANY LOCKOUTS SUDDEN PRESSURE AND NEU ENTIAL IS DPDP-4B FUSE	RLY." WHICH JTRAL GROUND
<ul> <li>FOR THE BACKUP ES TRANSFORMER ONE OR MO PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS A SECTION OF THE REAR MCB AND ARE LABELED</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul> </li> <li>DISCUSSION:         <ul> <li>DISPATCHER APPROVAL IS REQUIRED PRIOR TO HAVE YELLOW CONTROL HANDLES. DC CONTROL POWER IS SUPPLIED FROM: FOR S THEY ARE DPDP-4A FUSE #11 / PHASE DIFFERE</li> </ul> </li> </ul>	RE OF THE FOLLOWING: SUDDEN PRESSURE RE OFF, LOCATED ON THE BACKUP ES XFMR LK/OT RESETTING ANY LOCKOUTS SUDDEN PRESSURE AND NEU ENTIAL IS DPDP-4B FUSE CB FOR THIS CIRCUIT.	RLY." WHICH JTRAL GROUND

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ENCLOSURE 1 (Page 46 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 0729
NDICATED CONDITION:		
상태님은 말을 수 가지 않는 사람들이 많을 수 있다.	DC DOLED	
O BACKUP TRANSFORMER LOCKOUT RELAY LOSS OF	DU POVER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	4:	
O FOR THE BACKUP ES TRANSFORMER ONE OR MORE PHASE DIFFERENTIAL NEUTRAL GROUND LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED ' OPERATOR ACTIONS FOR A VALID ALARM:	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED ' OPERATOR ACTIONS FOR A VALID ALARM:	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED '	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED ' OPERATOR ACTIONS FOR A VALID ALARM:	SUDDEN PRESSURE E OFF, LOCATED ON THE	SSR UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	SUDDEN PRESSURE E OFF, LOCATED ON THE "STARTUP XFMR 3 LOCKO	UTS."
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	SUDDEN PRESSURE E OFF, LOCATED ON THE "STARTUP XFMR 3 LOCKOU ESETTING ANY LOCKOUTS DDEN PRESSURE AND NEU TIAL IS DPDP-4B FUSE	WHICH TRAL GROUND
PHASE DIFFERENTIAL NEUTRAL GROUND S LOCKOUT RELAY AMBER INDICATING LIGHTS ARE SECTION OF THE REAR MCB AND ARE LABELED OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER. DISCUSSION: DISPATCHER APPROVAL IS REQUIRED PRIOR TO RE HAVE YELLOW CONTROL HANDLES. DC CONTROL POWER IS SUPPLIED FROM: FOR SUP THEY ARE DPDP-4A FUSE #11 / PHASE DIFFERENT	SUDDEN PRESSURE E OFF, LOCATED ON THE "STARTUP XFMR 3 LOCKOU ESETTING ANY LOCKOUTS DDEN PRESSURE AND NEU TIAL IS DPDP-4B FUSE FOR THIS CIRCUIT.	WHICH TRAL GROUND

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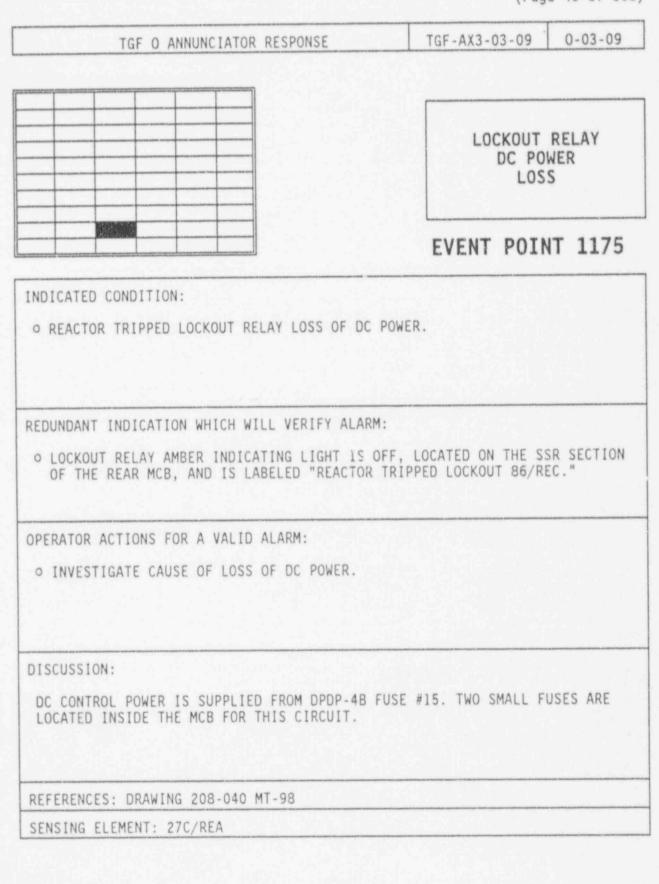
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 0730
INDICATED CONDITION:		
O BACKUP ES TRANSFORMER MASTER TRIP LOCKOUT	RELAY LOSS OF DC POV	VER.
영상 전 이 것 같아. 이 집에 집에 가지 않는 것이 같아.		
	an and the second se	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
O FOR THE BACKUP ES TRANSFORMER LOCKOUT REL	AY AMBER INDICATING R AND IS LARFLED "RAI	CKUP ES
OFF, LOCATED ON THE SSR SECTION OF THE MC XFMR MASTER LK/OT RLY 'A' AND 'B'."	D AND IS LADELED DA	UNUT LU
OPERATOR ACTIONS FOR A VALID ALARM:		
• INVESTIGATE CAUSE OF LOSS OF DC POWER.		
	na an ann an an an an an an Arraige ann an ann ann an ann an ann an ann an	
DISCUSSION:		
	a na shu a n	
REFERENCES: DRAWING 208-040 MT-141, 142		
SENSING ELEMENT: 27C/86BESTMTA, 86BESTMTB		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09 0-03-09
	LOCKOUT RELAY DC POWER LOSS
	EVENT POINT 0850
INDICATED CONDITION: • CUTOUT SWITCHES ARE OPEN, (LOSS OF DC POWE FOLLOWING: UNIT TRIP PRIMARY OR ALTERNATE LOCE 86UTAX,AY)	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • LOCKOUT RELAY INDICATING LIGHT IS OFF, LOU FEED AUX ASMBLY SECTION OF THE REAR MCB.	
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	
DISCUSSION: DC CONTROL POWER IS SUPPLIED FROM DPDP-7A F AND ALTERNATE TRIP RELAYS. TWO SMALL FUSES THIS CIRCUIT. OPENING THESE CUTOUT SWITCHES DISABLES THE PLANT BREAKERS AUTOMATICALLY.	ARE LOCATED INSIDE THE MCB FO
REFERENCES: DRAWING 208-079 SB-03, SB-04, SB	-16, SB-17
SENSING ELEMENT: LOAG, LOA5, LOA2, LOA3 REL	AYS

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POI	NT 1180
INDICATED CONDITION:		
O GENERATOR UNDERFREQUENCY LOCKOUT RELAY LOS	SS OF DC POWER.	
A REAL PROPERTY AND A REAL		
REDUNDANT INDICATION WHICH WILL VERIEY ALARM	•	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		OF CECTION
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE	FF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O	FF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON THE T	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFREE</li> </ul>	FF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON THE T	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFREE</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> </ul>	FF, LOCATED ON THE T QUENCY LOCKOUTS."	
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFREN OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	FF, LOCATED ON THE T QUENCY LOCKOUTS."	
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFREN OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-48 F</li> </ul>	FF, LOCATED ON THE T QUENCY LOCKOUTS."	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO	WER
	LOS	
	EVENT POIN	11 1039
NEICATED CONDITION:		
• EH LOW FLUID LEVEL LOCKOUT RELAY LOSS OF	DC POWER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M :	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	OFF, LOCATED ON THE TO LUID LOCKOUT 86/LFT."	
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH F</li> <li>DPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-3A</li> </ul>	OFF, LOCATED ON THE TO LUID LOCKOUT 86/LFT."	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 1674
INDICATED CONDITION:		
O TURBINE TRIP LOCKOUT RELAY LOSS OF DC POW	VER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • LOCKOUT RELAY AMBER INDICATING LIGHT IS ( OF THE REAR MCB, AND IS LABELED, "TURB 3	OFF, LOCATED ON THE T	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS	OFF, LOCATED ON THE T	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED, "TURB 3</li> </ul>	OFF, LOCATED ON THE T	GR SECTION
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED, "TURB 3 OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE T	GR SECTION
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED, "TURB 3 OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE T	GR SECTION
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED, "TURB 3</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> </ul>	DFF, LOCATED ON THE TO STOP VLVS LOCKOUTS."	
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED, "TURB 3</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>INVESTIGATE CAUSE OF LOSS OF DC POWER.</li> <li>DISCUSSION:</li> <li>DC CONTROL POWER IS SUPPLIED FROM DPDP-42</li> </ul>	DFF, LOCATED ON THE TO STOP VLVS LOCKOUTS."	

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ENCLOSURE 1 (Page 53 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01	0-04-01
	TURB EX	
	HIG	GH
	EVENT POI	NT 1632
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM: • START HOOD SPRAYS.		
전 가격 방법에 가격을 위한 것이 같아. 것이 같아. 이는 것 같아.		
OPERATOR ACTIONS FOR A VALID ALARM: • START HOOD SPRAYS. DISCUSSION:		
○ START HOOD SPRAYS.	BINE EXHAUST TEMPERAT	TURE IS
<ul> <li>START HOOD SPRAYS.</li> <li>DISCUSSION:</li> <li>MAXIMUM ΔT BETWEEN CONDENSERS USING LP TURI</li> </ul>	BINE EXHAUST TEMPERAT	TURE IS

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01 0-04-01
	TURB EXH STM TEMP HIGH
	EVENT POINT 1633
INDICATED CONDITION: • LP TURBINE #2 EXHAUST TEMPERATURE >175°F A	AS SENSED BY TB-280-TS.
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: • START HOOD SPRAYS.	
• START HOOD SPRAYS. DISCUSSION:	
• START HOOD SPRAYS.	
DISCUSSION: MAXIMUM AT BETWEEN CONDENSERS USING LP TURB	

ENCLOSURE 1 (Page 55 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01 0-04-01
	TURB EXH STM
	TEMP HIGH
	EVENT POINT 1634
INDICATED CONDITION:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
REDUNDANT INDICATION WHICH WILL VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM:	1:
	07
OPERATOR ACTIONS FOR A VALID ALARM: O INCREASE CONDENSER VACUUM, REFER TO OP-60 O INCREASE TURBINE LOAD. O IF TURBINE LOAD CANNOT BE INCREASED THEN	07
<ul> <li>INCREASE CONDENSER VACUUM, REFER TO OP-60</li> <li>INCREASE TURBINE LOAD.</li> <li>IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE.</li> </ul>	O7 CONSIDERATION SHOULD BE GIVEN MAL CONDENSER VACUUM ARE CAUSED THE STEAM BY THE LOW PRESSURE
OPERATOR ACTIONS FOR A VALID ALARM: • INCREASE CONDENSER VACUUM, REFER TO OP-60 • INCREASE TURBINE LOAD. • IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE. DISCUSSION: HIGH TURBINE EXHAUST TEMPERATURES WITH NORM BY INSUFFICIENT ENERGY BEING REMOVED FROM T	O7 CONSIDERATION SHOULD BE GIVEN MAL CONDENSER VACUUM ARE CAUSED THE STEAM BY THE LOW PRESSURE TEMPERATURES WILL DECREASE.
OPERATOR ACTIONS FOR A VALID ALARM: • INCREASE CONDENSER VACUUM, REFER TO OP-60 • INCREASE TURBINE LOAD. • IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE. DISCUSSION: HIGH TURBINE EXHAUST TEMPERATURES WITH NORM BY INSUFFICIENT ENERGY BEING REMOVED FROM T TURBINES. BY INCREASING TURBINE LOAD THESE MAXIMUM ΔT BETWEEN CONDENSERS USING LP TURE	O7 CONSIDERATION SHOULD BE GIVEN MAL CONDENSER VACUUM ARE CAUSED THE STEAM BY THE LOW PRESSURE TEMPERATURES WILL DECREASE.

TGF O ANNUNCIATOR RESPONSE	Tas	of the second second in the party of the local division in the second seco	e 56 of
	I IGF-AX3	3-04-01	0-04-0
		Name and a second second build and a second s	VIII C.
	T	URB EXH TEMP HIGH	STM
INDICATED CONDITION:	EVENT	POINT	1635
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:			
OPERATOR ACTIONS FOR A VALID ALARM.			
OPERATOR ACTIONS FOR A VALID ALARM:	SIDERATION SHO		
OPERATOR ACTIONS FOR A VALID ALARM: O INCREASE CONDENSER VACUUM, REFER TO OP-607 O INCREASE TURBINE LOAD. O IF TURBINE LOAD CANNOT BE INCREASED THEN CONS TO TAKE THE TURBINE OFF LINE.	SIDERATION SHO	ULD BE GI	VEN
OPERATOR ACTIONS FOR A VALID ALARM:	ONDENSER VACUU	M ARE CAU	
OPERATOR ACTIONS FOR A VALID ALARM: • INCREASE CONDENSER VACUUM, REFER TO OP-607 • INCREASE TURBINE LOAD. • IF TURBINE LOAD CANNOT BE INCREASED THEN CONS • IF TURBINE LOAD CANNOT BE INCREASED THEN CONS • TO TAKE THE TURBINE OFF LINE. ISCUSSION: HIGH TURBINE EXHAUST TEMPERATURES WITH NORMAL CONS BY INSUFFICIENT ENERGY BEING REMOVED FROM THE ST URBINES. BY INCREASING TURBINE LOAD FROM THE ST	ONDENSER VACUU	M ARE CAU	

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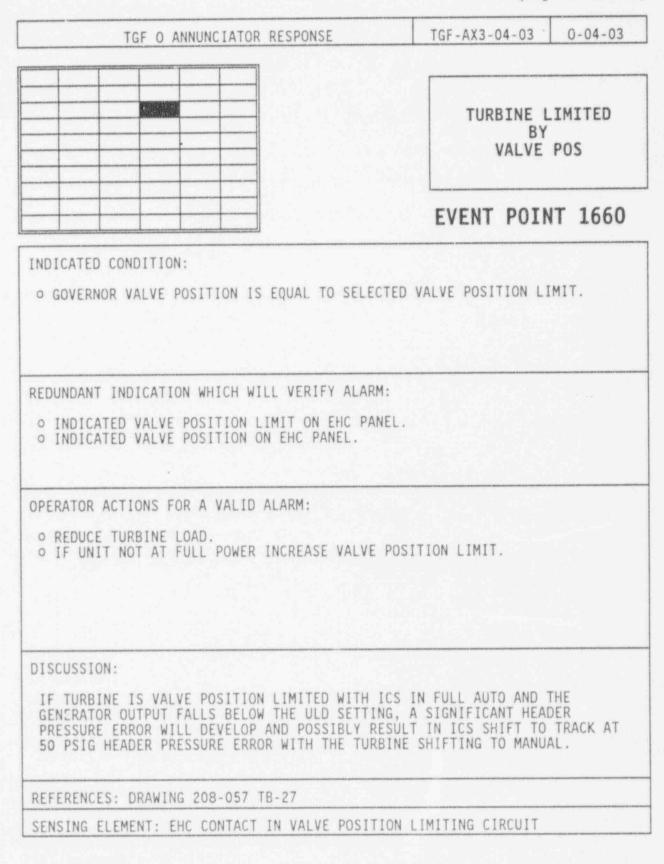
ENCLOSURE 1 (Page 56 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01	0-04-01
	TURB E TEI HI	MP
	EVENT POI	NT 1635
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
	7	D BE GIVEN
OPERATOR ACTIONS FOR A VALID ALARM: • INCREASE CONDENSER VACUUM, REFER TO OP-60 • INCREASE TURBINE LOAD. • IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE.	7 CONSIDERATION SHOULD AL CONDENSER VACUUM HE STEAM BY THE LOW TEMPERATURES WILL D	ARE CAUSED PRESSURE ECREASE.
<ul> <li>O INCREASE TURBINE LOAD.</li> <li>O IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE.</li> <li>DISCUSSION:</li> <li>HIGH TURBINE EXHAUST TEMPERATURES WITH NORM BY INSUFFICIENT ENERGY BEING REMOVED FROM T TURBINES. BY INCREASING TURBINE LOAD THESE</li> <li>MAXIMUM ΔT BETWEEN CONDENSERS USING LP TURB</li> </ul>	7 CONSIDERATION SHOULD AL CONDENSER VACUUM HE STEAM BY THE LOW TEMPERATURES WILL D	ARE CAUSED PRESSURE ECREASE.

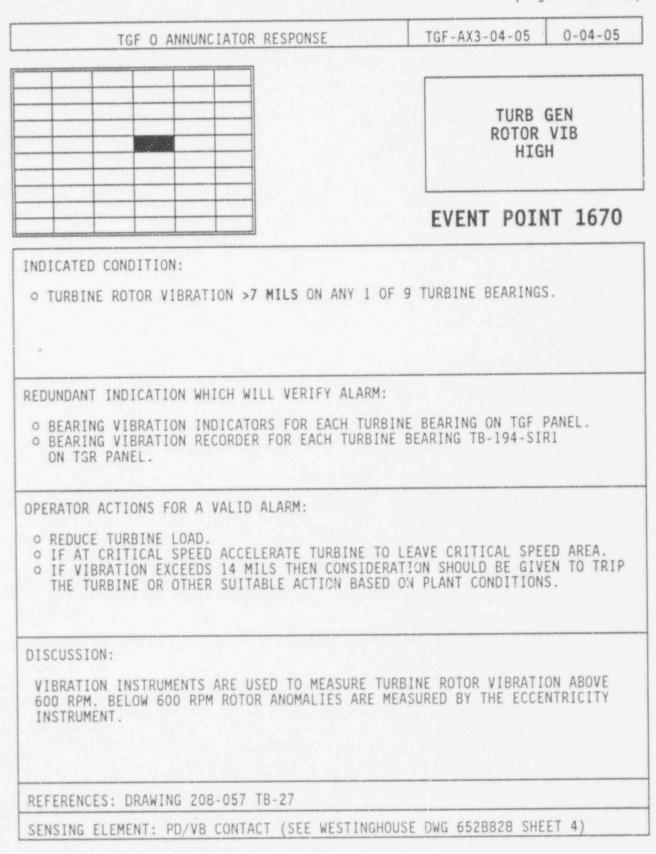
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-02 0-04-02
	TURBINE STEAM FLOW LOW
	EVENT POINT 1638
<ul> <li>NDICATED CONDITION:</li> <li>ΔP BETWEEN HIGH PRESSURE TURBINE INLET AN MS-87-PS, WITH EITHER 1661 AND/OR 1662 OU</li> </ul>	D OUTLET <b>&lt;21 PSID</b> AS SENSED BY TPUT BREAKERS CLOSED.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • GENERATOR MEGAWATT INDICATION LOW WITH AT CLOSED	
OPERATOR ACTIONS FOR A VALID ALARM: • INCREASE TURBINE LOAD. • IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE BY OPENING A	
DISCUSSION:	
THIS EVENT POINT SIGNALS THE START OF A 60 CONDITION DOES NOT CLEAR IN THAT TIME THE T	
WHEN THE FIRST OUTPUT BREAKER IS CLOSED A T	
SECTID TIME DELAY. IF TURBINE LOAD IS NOT I A TRIP SIGNAL IS SENT TO THE TURBINE.	
SECAND TIME DELAY. IF TURBINE LOAD IS NOT I	

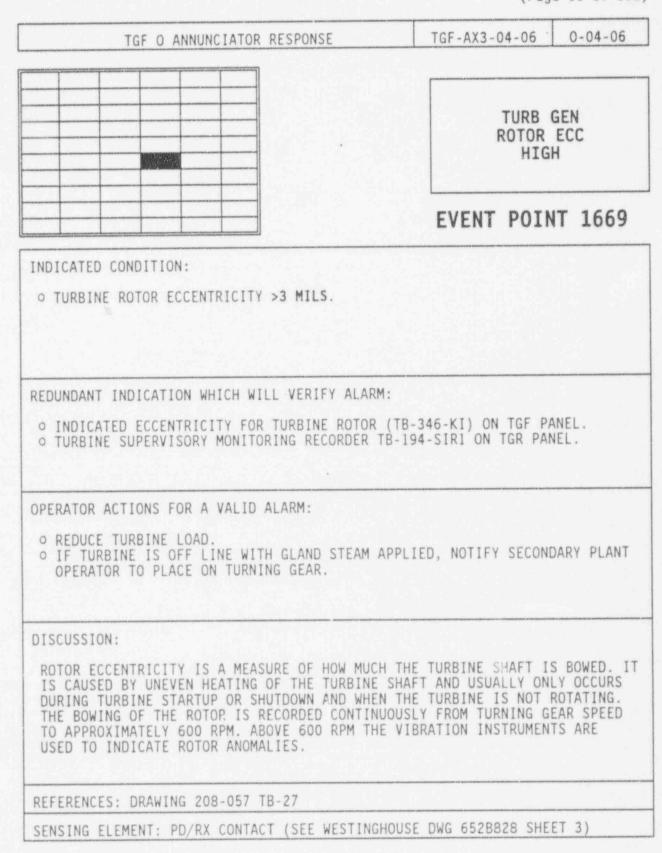
ENCLOSURE 1 (Page 58 of 108)



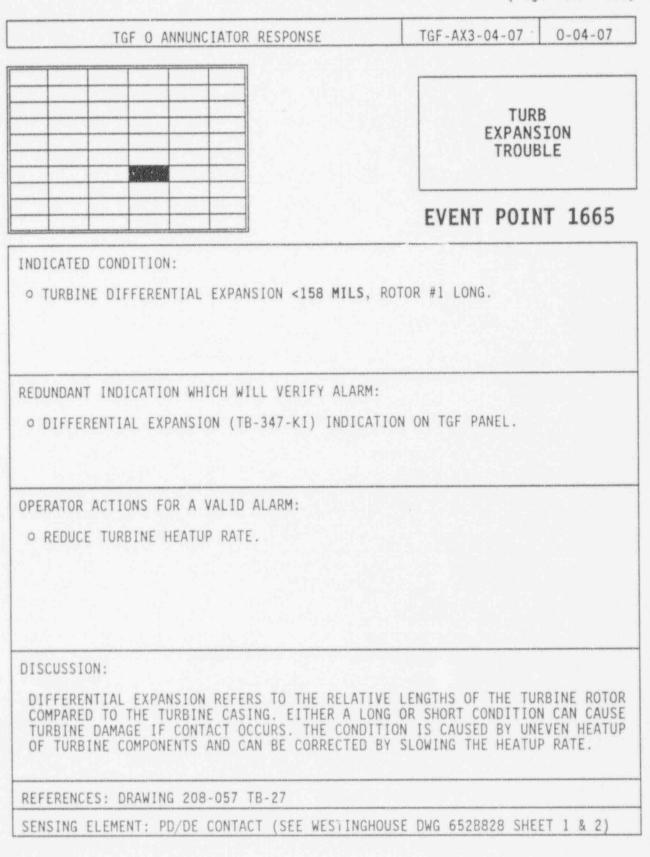
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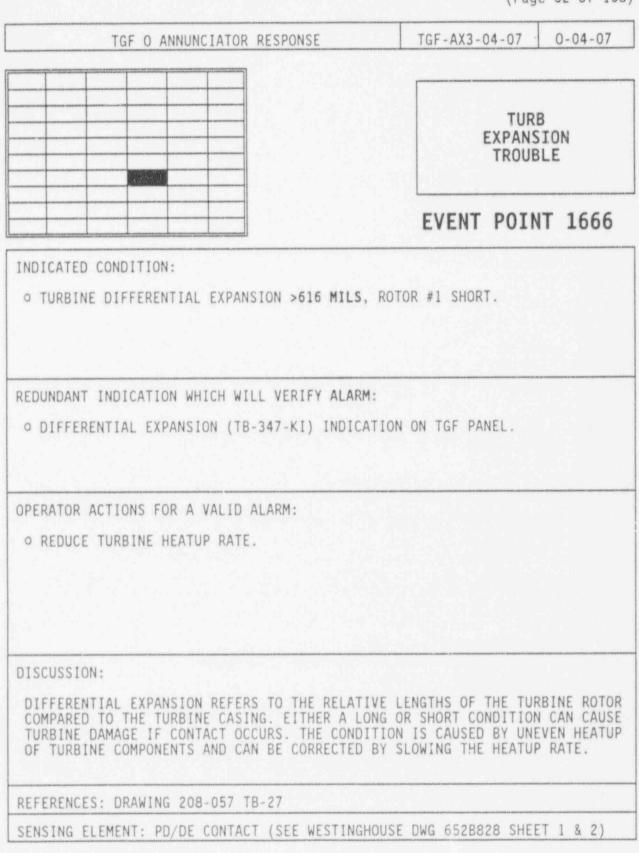
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ENCLOSURE 1 (Page 61 of 108)



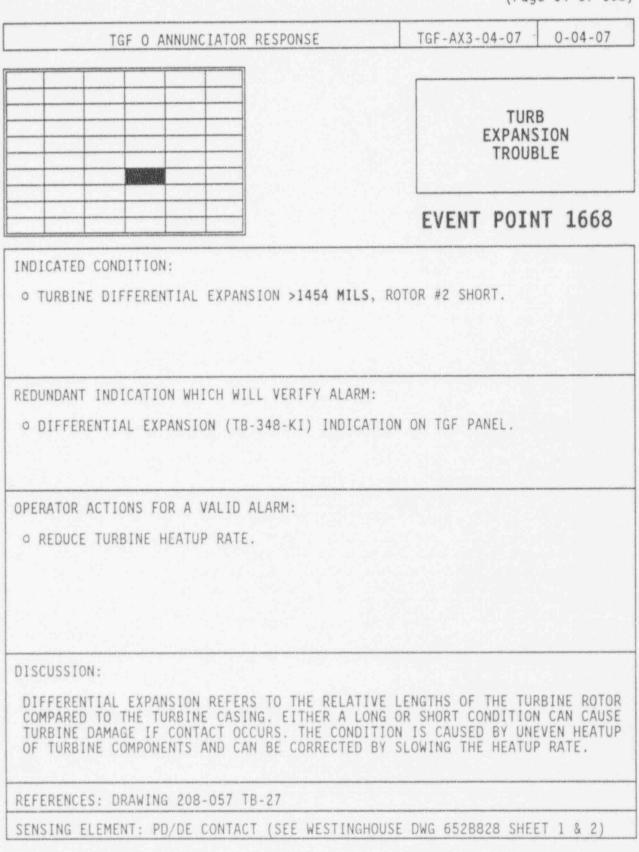
ENCLOSURE 1 (Page 62 of 108)



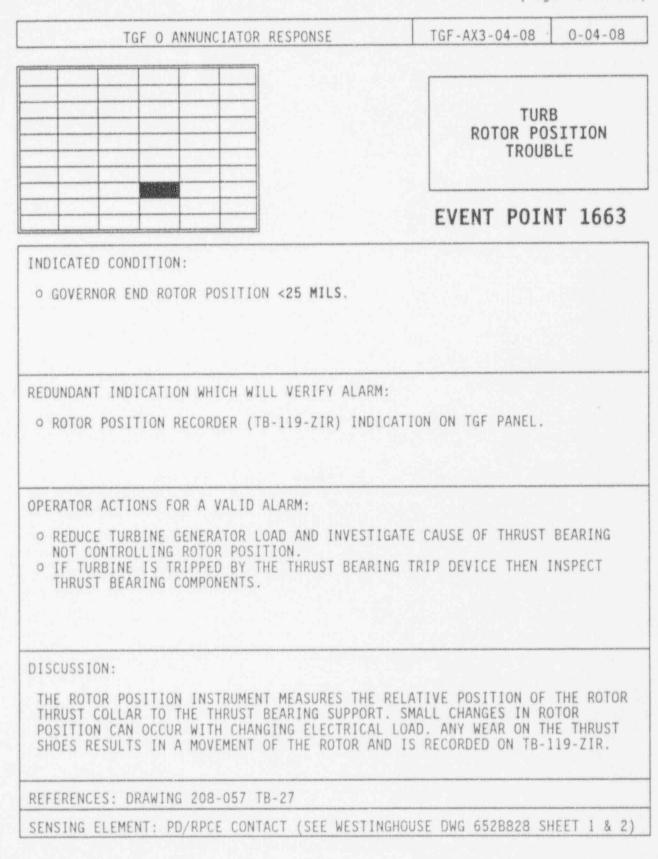
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0-04-07 TGF-AX3-04-07 TGF O ANNUNCIATOR RESPONSE TURB EXPANSION TROUBLE **EVENT POINT 1667** INDICATED CONDITION: O TURBINE DIFFERENTIAL EXPANSION <345 MILS, ROTOR #2 LONG. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DIFFERENTIAL EXPANSION (TB-348-KI) INDICATION ON TGF PANEL. OPERATOR ACTIONS FOR A VALID ALARM: ○ REDUCE TURBINE HEATUP RATE. DISCUSSION: DIFFERENTIAL EXPANSION REFERS TO THE RELATIVE LENGTHS OF THE TURBINE ROTOR COMPARED TO THE TURBINE CASING. EITHER A LONG OR SHORT CONDITION CAN CAUSE TURBINE DAMAGE IF CONTACT OCCURS. THE CONDITION IS CAUSED BY UNEVEN HEATUP OF TURBINE COMPONENTS AND CAN BE CORRECTED BY SLOWING THE HEATUP RATE. REFERENCES: DRAWING 208-057 TB-27 SENSING ELEMENT: PD/DE CONTACT (SEE WESTINGHOUSE DWG 652B828 SHEET 1 & 2)

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TGF @ ANNUNCIATOR RESPONSE	TGF-AX3-04-08	0-04-08
	ROTOR P	RB OSITION UBLE
	EVENT POI	INT 1664
INDICATED CONDITION: • GOVERNOR END ROTOR POSITION >95 MILS.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	ar ann an an tarl ann ann an tarl an t	
• ROTOR POSITION RECORDER (TB-119-ZIR) IND		
• ROTOR POSITION RECORDER (TB-119-ZIR) IND	ICATION ON TGF PANEL	
○ ROTOR POSITION RECORDER (TB-119-ZIR) IND	ICATION ON TGF PANEL	T BEARING
<ul> <li>ROTOR POSITION RECORDER (TB-119-ZIR) IND</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REDUCE TURBINE GENERATOR LOAD AND INVEST NOT CONTROLLING ROTOR POSITION.</li> <li>IF TURBINE IS TRIPPED BY THE THRUST BEAR</li> </ul>	ICATION ON TGF PANEL	T BEARING
<ul> <li>ROTOR POSITION RECORDER (TB-119-ZIR) IND</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REDUCE TURBINE GENERATOR LOAD AND INVEST NOT CONTROLLING ROTOR POSITION.</li> <li>IF TURBINE IS TRIPPED BY THE THRUST BEAR THRUST BEARING COMPONENTS.</li> </ul>	ICATION ON TGF PANEL IGATE CAUSE OF THRUS ING TRIP DEVICE THEN RELATIVE POSITION C T. SMALL CHANGES IN L LOAD. ANY WEAR ON	T BEARING I INSPECT OF THE ROTOR ROTOR THE THRUST
<ul> <li>ROTOR POSITION RECORDER (TB-119-ZIR) IND</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REDUCE TURBINE GENERATOR LOAD AND INVEST NOT CONTROLLING ROTOR POSITION.</li> <li>IF TURBINE IS TRIPPED BY THE THRUST BEAR THRUST BEARING COMPONENTS.</li> <li>DISCUSSION:</li> <li>THE ROTOR POSITION INSTRUMENT MEASURES THE THRUST COLLAR TO THE THRUST BEARING SUPPOR POSITION CAN OCCUR WITH CHANGING ELECTRICA</li> </ul>	ICATION ON TGF PANEL IGATE CAUSE OF THRUS ING TRIP DEVICE THEN RELATIVE POSITION C T. SMALL CHANGES IN L LOAD. ANY WEAR ON	T BEARING I INSPECT OF THE ROTOR ROTOR THE THRUST

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-09	0-04-09
	TURB	CEN
	SPEED CH TROUE	ANNEL
	INCOL	
	EVENT POIN	NT 1661
INDICATED CONDITION:		
• SPEED CHANNEL FAILURE.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	· · · ·
• SPEED CHANNEL MONITOR IS BACKLIGHTED ON T	THE EHC CONTROL PANEL	•
OPERATOR ACTIONS FOR A VALID ALARM:		
STABILIZE THE PLANT IF THE TURBINE HAS SH MANUAL	IFTED OUT OF ICS CON	TROL INTO
TABOAL .		
DISCUSSION:		
THE EHC CONTROLLER WILL REVERT TO THE MANU OF ANY ONE OF THE FOLLOWING CHANNELS: MAIN REFERENCE, LOAD REFERENCE.	JAL MODE IF THERE IS A SPEED, AUX SPEED, S	A FAILURE PEED
HEADER PRESSURE CONTROL WITH THE TURBINE USING GV OR TV OPEN OR CLOSE P/B'S IN ADD HEADER PRESSURE IF HEADER PRESSURE ERROR ALSO IN MANUAL, OR ICS DEMAND DECREASES TO	ITION THE TBV'S WILL IS 50 PSIG, REACTOR B	CONTROL
REFERENCES: DRAWING 208-057 TB-27		
SENSING ELEMENT: EHC CONTACT		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-09 0-04-09
	TURB GEN SPEED CHANNEL TROUBLE
	EVENT POINT 1662
<pre>INDICATED CONDITION:</pre>	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	
OPERATOR ACTIONS FOR A VALID ALARM: • STABILIZE THE PLANT IF THE TURBINE HAS SI MANUAL	HIFTED OUT OF ICS CONTROL INTO
DISCUSSION: THE EHC CONTROLLER WILL REVERT TO THE MAN	UAL MODE IF THERE IS A FAILURE
OF ANY ONE OF THE FOLLOWING CHANNELS: MAI REFERENCE, LOAD REFERENCE.	N SPEED, AUX SPEED, SPEED
HEADER PRESSURE CONTROL WITH THE TURBINE USING GV OR TV OPEN OR CLOSE P/B'S IN ADD HEADER PRESSURE IF HEADER PRESSURE ERROR ALSO IN MANUAL, OR ICS DEMAND DECREASES T	ITION THE TBV'S WILL CONTROL IS 50 PSIG, REACTOR BAILEY IS
REFERENCES: DRAWING 208-057 TB-27	
	and a second

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-09 0-04-09
	TURB GEN
	SPEED CHANNEL TROUBLE
	EVENT POINT 1673
NDICATED CONDITION:	
O OPC TRANSDUCER OR SPEED PROTECTION CONTRO	DL CIRCUIT FAILURE.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	И.
• OPC FAILURE INDICATION ON EHC CONTROL PA	
O DEC TAILORE INDICATION ON END CONTROL TH	1 No Io 7
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: DISCUSSION:	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-10 0-04-10
	TURB AT ZERO SPEED
	EVENT POINT 1623
INDICATED CONDITION: ○ TURBINE GENERATOR SHAF <sup>+</sup> HAS STOPPED ROLLI	NG.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID.	
OPERATOR ACTIONS FOR A VALID ALARM:	
<ul> <li>ENSURE TURNING GEAR IS ENGAGED AND SHAFT</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO PLACE MANUALLY IF AUTO FUNCTION DOES NOT OPERAT</li> </ul>	TURBINE ON TURNING GEAR
DISCUSSION:	
REFERENCES: DRAWING 208-057 TB-06	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-01	0-05-01
	TURB A CHAN TRI	NEL
	EVENT POI	NT 2041
INDICATED CONDITION: • REACTOR POWER >45% RTP AND FEEDWATER FLO ON AMSAC CHANNEL "A".	W ON BOTH LOOPS <17%	RATED FLOW
<ul> <li>POWER RANGE NUCLEAR INSTRUMENTS ON MAIN</li> <li>FEEDWATER FLOW (MAIN AND START-UP) INDIC</li> </ul>	CONTROL BOARD.	BOARD.
	CONTROL BOARD.	BOARD.
<ul> <li>POWER RANGE NUCLEAR INSTRUMENTS ON MAIN</li> <li>FEEDWATER FLOW (MAIN AND START-UP) INDIC</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660.</li> </ul>	CONTROL BOARD. ATION ON MAIN CONTROL	
<ul> <li>POWER RANGE NUCLEAR INSTRUMENTS ON MAIN</li> <li>FEEDWATER FLOW (MAIN AND START-UP) INDIC</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660.</li> <li>REFER TO EOP.</li> <li>DISCUSSION:</li> <li>AMSAC SENSES REACTOR POWER USING POST ACCI</li> </ul>	CONTROL BOARD. ATION ON MAIN CONTROL	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-01 0-05-01
	TURB AMSAC CHANNEL TRIP
	EVENT POINT 2042
INDICATED CONDITION: • REACTOR POWER >45% RTP AND FEEDWATER F ON AMSAC CHANNEL "B".	LOW ON BOTH LOOPS <17% RATED FLOW
REDUNDANT INDICATION WHICH WILL VERIFY AL	APM -
<ul> <li>POWER RANGE NUCLEAR INSTRUMENTS ON MAI</li> <li>FEEDWATER FLOW (MAIN AND START-UP) INC</li> </ul>	N CONTROL BOARD.
• FEEDWATER FLOW (MAIN AND START-UP) INC	N CONTROL BOARD.
<ul> <li>FEEDWATER FLOW (MAIN AND START-UP) IND</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660.</li> </ul>	N CONTROL BOARD. DICATION ON MAIN CONTROL BOARD.
<ul> <li>FEEDWATER FLOW (MAIN AND START-UP) INCOMPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO AP-660.</li> <li>REFER TO EOP.</li> </ul> DISCUSSION: AMSAC SENSES REACTOR POWER USING POST ACTIONS POWER USING POWER POWER USING POWER POWER USING POWER USING POWER POWER POWER USING POWER PO	N CONTROL BOARD. DICATION ON MAIN CONTROL BOARD.

	TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-02 0-05-02
		TURB AMSAC LOW FLUX BYPASS
		EVENT POINT 1504
	<ul> <li>REACTOR POWER &lt;45% RTP.</li> <li>REDUNDANT INDICATION WHICH WILL VERIFY ALARI</li> <li>POWER RANGE NUCLEAR INSTRUMENTS ON MAIN (</li> </ul>	
	OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF REACTOR P	OWER IS >45% RTP.
	DISCUSSION:	
1	WITH REACTOR POWER <45% RTP BY POST ACCIDE ARE BLOCKED FROM TRIPPING.	NT NI'S, THEN THE AMSAC CHANNE

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TGF O ANNUNCIATOR RESPONSE			and the same and the same in the same
	TGF-AX3	3-05-03	0-05-0
		TURB AM CHANNE IN TES	L
INDICATED CONDITION: • AMSAC CHANNEL "A" IN TEST.	EVENT	POINT	1239
REDUNDANT INDICATE			
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:			
OPERATOR ACTIONS FOR A VALID ALARM:			
	OT IN PROGRESS		
OPERATOR ACTIONS FOR A VALID ALARM:	OT IN PROGRESS		
OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF TESTING IS NO			
OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF TESTING IS NO ISCUSSION:		*	

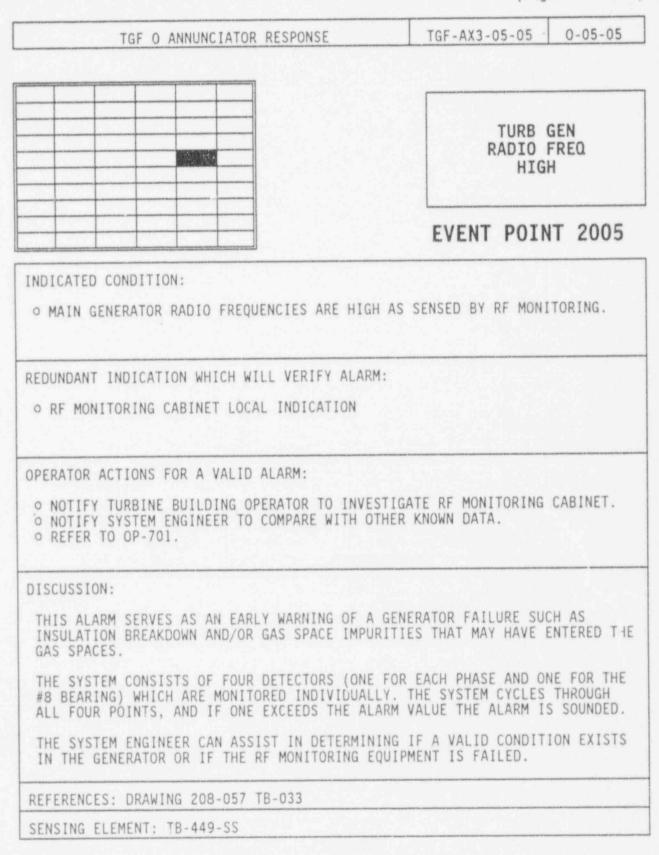
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-03 0-05-03
	TURB AMSAC CHANNEL IN TEST
	EVENT POINT 1243
INDICATED CONDITION: • AMSAC CHANNEL "B" IN TEST.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	4.
KEDUNDANT INDICATION WHICH WILL VERILL VERILL ALAN	
OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF TESTING IS	5 NOT IN PROGRESS.
OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF TESTING IS DISCUSSION:	5 NOT IN PROGRESS.

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-06 0-05-	06
	TURB GEN CONDITION MON HIGH	
	EVENT POINT 19	56
<ul> <li>NDICATED CONDITION:</li> <li>HYDROGEN COOLING GAS CONTAMINATED WITH HI INSIDE MAIN ELECTRICAL GENERATOR.</li> </ul>	GH CONCENTRATION OF PARTICL	ES
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • HIGH ALARM ON TB-448-AIR TGR SECTION, REA		
• VERIFY CONDITION ON TB-448-AIR, TGR SECT		
• VERIFY CONDITION ON TB-448-AIR, TGR SECT • REFER TO OP-701. • TAKE A BACKUP SAMPLE PER SECTION 4.14 OF	SP-325.	
• REFER TO OP-701. • TAKE A BACKUP SAMPLE PER SECTION 4.14 OF DISCUSSION: THIS ALARM SERVES AS A WARNING OF GENERATOR BREAKDOWN AND/OR GAS SPACE IMPURITIES THAT	SP-325.	

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-08	0-05-
	GEN AIR DC SEA OUT OF S	L PP
	EVENT POIN	VT 16
INDICATED CONDITION:		
• TBP-10 LOSS OF DC POWER.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	۹:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • HYDROGEN PANEL ALARM.	۹:	
	۹:	
○ HYDROGEN PANEL ALARM.	۹:	
• HYDROGEN PANEL ALARM. OPERATOR ACTIONS FOR A VALID ALARM:		OF POWE
○ HYDROGEN PANEL ALARM.	TIGATE CAUSE OF LOSS (	OF POWEI
<ul> <li>HYDROGEN PANEL ALARM.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST</li> </ul>	TIGATE CAUSE OF LOSS (	OF POWE
<ul> <li>HYDROGEN PANEL ALARM.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVES</li> <li>NOTIFY CHEMISTRY TO MONITOR GENERATOR ARI</li> </ul>	TIGATE CAUSE OF LOSS (	OF POWE NTRATIO
<ul> <li>HYDROGEN PANEL ALARM.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVES</li> <li>NOTIFY CHEMISTRY TO MONITOR GENERATOR AR</li> </ul> </li> <li>DISCUSSION:</li> </ul>	TIGATE CAUSE OF LOSS ( EA FOR HYDROGEN CONCEN	NTRATIO
<ul> <li>HYDROGEN PANEL ALARM.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVES</li> <li>NOTIFY CHEMISTRY TO MONITOR GENERATOR ARI</li> </ul> </li> </ul>	TIGATE CAUSE OF LOSS O EA FOR HYDROGEN CONCEN IF THIS CIRCUIT IS DI IRCUIT FOR TBP-10 IS 1	EENERGI POWERED
<ul> <li>HYDROGEN PANEL ALARM.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:         <ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVES</li> <li>NOTIFY CHEMISTRY TO MONITOR GENERATOR ARI</li> </ul> </li> <li>DISCUSSION:         <ul> <li>TBP-10 IS POWERED FROM DPDP-38 SWITCH #13. THEN THIS ALARM IS RECEIVED. THE CONTROL C FROM DPDP-38 SWITCH #17. NO ALARM IS ASSOC</li> </ul> </li> </ul>	TIGATE CAUSE OF LOSS O EA FOR HYDROGEN CONCEN IF THIS CIRCUIT IS DI IRCUIT FOR TBP-10 IS 1	NTRATIO

ENCLOSURE 1 (Page 79 of 108)

	TGF-AX3-05-09 0-05-09
	HYDROGEN
	PANEL TROUBLE
	EVENT POINT 1644
INDICATED CONDITION:	
• AT LEAST 1 OF 13 DROP TARGETS HAS FALLEN	ON THE HYDROGEN ALARM PANEL.
AT LEAST 1 OF 15 DROF TARGETS TAS TALLED	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	1:
OPERATOR ACTIONS FOR A VALID ALARM:	
	TTATE UVOCOCEN ALADH CANEL
<ul> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVES</li> <li>REFER TO AR-921.</li> </ul>	IIGATE HYDROGEN ALARM PANEL.
DISCUSSION:	
DISCUSSION: THE FOLLOWING CONDITIONS ARE ALARMED AT TH	E HYDROGEN ALARM PANEL:
	E HYDROGEN ALARM PANEL: H <sub>2</sub> TEMPERATURE H <sub>2</sub> SIDE HIGH LEVEL LOW
THE FOLLOWING CONDITIONS ARE ALARMED AT TH H, PURITY H, PRESSURE H, SUPPLY HIGH/LOW HIGH/LOW PRESS LOW SEAL OIL WATER DETECTED SEAL O	H <sub>2</sub> TEMPERATURE H <sub>2</sub> SIDE HIGH LEVEL LOW
THE FOLLOWING CONDITIONS ARE ALARMED AT TH H, PURITY H, PRESSURE H, SUPPLY HIGH/LOW HIGH/LOW PRESS LOW SEAL OIL WATER DETECTED SEAL O	H <sub>2</sub> TEMPERATURE H <sub>2</sub> SIDE HIGH LEVEL LOW IL TURBINE DEFOAMING TANK RESS LOW LEVEL HIGH IDE SEAL OIL ALARM PANEL
THE FOLLOWING CONDITIONS ARE ALARMED AT TH H, PURITY H, PRESSURE H, SUPPLY HIGH/LOW HIGH/LOW PRESS LOW SEAL OIL WATER DETECTED SEAL O PRESS LOW HIGH ALARM B/U P AIR SIDE SEAL H, SIDE SEAL AIR S	H <sub>2</sub> TEMPERATURE H <sub>2</sub> SIDE HIGH LEVEL LOW IL TURBINE DEFOAMING TANK RESS LOW LEVEL HIGH IDE SEAL OIL ALARM PANEL
THE FOLLOWING CONDITIONS ARE ALARMED AT TH H, PURITY H, PRESSURE H, SUPPLY HIGH/LOW HIGH/LOW PRESS LOW SEAL OIL WATER DETECTED SEAL O PRESS LOW HIGH ALARM B/U P AIR SIDE SEAL H, SIDE SEAL AIR S	H <sub>2</sub> TEMPERATURE H <sub>2</sub> SIDE HIGH LEVEL LOW IL TURBINE DEFOAMING TANK RESS LOW LEVEL HIGH IDE SEAL OIL ALARM PANEL

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-10 0-05-1
	HYDROGEN SUPPLY PRESS LOW
	EVENT POINT 152
INDICATED CONDITION: • HYDROGEN MANIFOLD SUPPLY PRESSURE <80 PS1	IG AS SENSED BY HY-81-PS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
REDUNDANT INDICATION WHICH WILL VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM: O NOTIFY SECONDARY PLANT OPERATOR TO INVEST	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: O NOTIFY SECONDARY PLANT OPERATOR TO INVES	

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ENCLOSURE 1 (Page 81 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENER/ TRI	
	EVENT POIN	VT 0683
INDICATED CONDITION: • GENERATOR NEUTRAL GROUND LOCKOUT RELAY TR	IPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • TURBINE TRIPPED INDICATION ON EHC PANEL. • LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.		GR SECTION
<pre>oPERATOR ACTIONS FOR A VALID ALARM:</pre>		
○ REFER TO AP-660.		
• REFER TO AP-660. DISCUSSION:		

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ENCLOSURE 1 (Page 82 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENERA	
	INI	
	EVENT POIN	NT 0684
NDICATED CONDITION:		
• STEP-UP TRANSFORMER/GENERATOR DIFFERENTIA	AL LOCKOUT RELAY TRIP	PED.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	1:	
• TURBINE TRIPPED INDICATION ON EHC PANEL.		
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS ( OF THE REAR MCB.</li> </ul>	OFF, LOCATED ON THE S	SR SECTION
OPERATOR ACTIONS FOR A VALID ALARM:		
<ul> <li>○ REFER TO EOP.</li> <li>○ REFER TO AP-660.</li> </ul>		
S REFER TO AT SUS.		
DISCUSSION:		
DISCUSSION: REFERENCES: DRAWING 208-040 MT-72		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01 0-06-01
	GENERATOR TRIP
	EVENT POINT 0685
INDICATED CONDITION:	
O GENERATOR DIFFERENTIAL LOCKOUT RELAY TRIP	PED.
A MENERAL DELIVERENTIAL CONCOL REEM THIT	
and the second	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01 0-06-01
	GENERATOR TRIP
	EVENT POINT 0686
INDICATED CONDITION: • GENERATOR BACKUP AND NEGATIVE SEQUENCE LO	OCKOUT RELAY TRIPPED.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • TURBINE TRIPPED INDICATION ON EHC PANEL. • LOCKOUT RELAY AMBER INDICATING LIGHT IS C OF THE REAR MCB.	
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660.	
DISCUSSION:	
REFERENCES: DRAWING 208-040 MT-74	

ENCLOSURE 1 (Page 85 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01 0-06-01
	GENERATOR TRIP
	EVENT POINT 0687
INDICATED CONDITION: • GENERATOR FIELD FAILURE LOCKOUT RELAY TRI	PPED.
<ul> <li>REDUNDANT INDICATION WHICH WILL VERIFY ALARM</li> <li>O TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>O LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> </ul>	
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660.	
DISCUSSION:	
REFERENCES: DRAWING 208-040 MT-75	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	r	
	GENERA	
	EVENT POIN	IT 0690
INDICATED CONDITION:		
• STEP-UP TRANSFORMER SUDDEN PRESSURE LOCKO	OUT RELAY TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1.	
	L.	
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB.</li> </ul>	OFF, LOCATED ON THE SS	SR SECTION
OPERATOR ACTIONS FOR A VALID ALARM:		
• REFER TO EOP.		
○ REFER TO AP-660.		
D T COLLO A T ON		
DISCUSSION:		
REFERENCES: DRAWING 208-040 MT-80		
SENSING ELEMENT: 86SPSU-2X		

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		<u>NCLOSORE 1</u> e 87 of 108
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENERA TRI	
	EVENT POIN	T 0720
INDICATED CONDITION:		
RELAY TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM • TURBINE TRIPPED INDICATION ON EHC PANEL. • LOCKOUT RELAY AMBER INDICATING LIGHT IS C OF THE REAR MCB.		GR SECTION
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660.		
DISCUSSION:		
REFERENCES: DRAWING 208-040 MT-78		

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ENCLOSURE 1 (Page 88 of 108)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENER	
	EVENT POI	NT 0825
INDICATED CONDITION: • 500 KV SUBSTATION PRIMARY TRIP LOCKOUT RE	LAY TRIPPED.	
<ul> <li>REDUNDANT INDICATION WHICH WILL VERIFY ALARM</li> <li>O TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>O LOCKOUT RELAY AMBER INDICATING LIGHT IS O FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> </ul>	FF, LOCATED ON THE G	ENERATOR
OPERATOR ACTIONS FOR A VALID ALARM: ○ REFER TO EOP. ○ REFER TO AP-660.		
DISCUSSION:		
REFERENCES: DRAWING 208-079 SB-03		
		the second state of the se

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENER	
	EVENT POI	NT 0826
INDICATED CONDITION:		a na an
○ 500 KV SUBSTATION ALTERNATE TRIP LOCKOUT	RELAY TRIPPED.	
	A series and an experiment of the second	And the state of the
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	l:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O TURBINE TRIPPED INDICATION ON EHC PANEL. O LOCKOUT RELAY AMBER INDICATING LIGHT IS O FEED AUX ASMBLY SECTION OF THE REAR MCB.		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS C FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>		ENERATOR
<ul> <li>TURBINE TRIPPED INDICATION ON EHC PANEL.</li> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> <li>REFER TO AP-660.</li> </ul>		ENERATOR
<ul> <li>LOCKOUT RELAY AMBER INDICATING LIGHT IS OF FEED AUX ASMBLY SECTION OF THE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>REFER TO EOP.</li> </ul>		ENERATOR

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0-06-01 TGF-AX3-06-01 . TGF O ANNUNCIATOR RESPONSE GENERATOR TRIP **EVENT POINT 1176** INDICATED CONDITION: O REACTOR TRIPPED LOCKOUT RELAY TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O TURBINE TRIPPED INDICATION ON EHC PANEL. O LOCKOUT RELAY AMBER INDICATING LIGHT IS OFF, LOCATED ON THE SSR SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: O REFER TO EOP. O REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98 SENSING ELEMENT: 86REC

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-0	06-02	0-06-02
		EXCITE BREAKE TRIP	
	EVENT	POINT	1648
INDICATED CONDITION: • EXCITATION REGULATOR SUPPLY BREAKER TRIPP	ED.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • GREEN LIGHT IS ON WITH A RED FLAG ON CONTI • EXCITER CURRENT INDICATION ON MAIN CONTROL	ROL STATION.		
CRETTER CORRERT INDICATION ON HAIN SOUTHS	L DUARD.		
OPERATOR ACTIONS FOR A VALID ALARM:			
	*		
	*		
OPERATOR ACTIONS FOR A VALID ALARM:	*		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-03 0-06-03
	GEN
	VOLT/HERTZ PRETRIP
	r KEIKIF
	EVENT POINT 1651
INDICATED CONDITION:	
• EXCESSIVE VOLTAGE TO HERTZ RATIO.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	М:
O TURBINE SPEED INDICATION.	
<ul> <li>UNIT VOLTAGE INDICATION.</li> <li>EXCITER CURRENT INDICATION.</li> </ul>	
OPERATOR ACTIONS FOR A VALID ALARM:	
A DECTARE CREED TO CANCURANOUS CREED	IFLD BREAKER.
• RESTORE SPEED TO SYNCHRONOUS SPEED.	ali kas has had bad t S has 7 S t A has 3 S #
• IF SPEED CANNOT BE INCREASED, TRIP THE F	
• IF SPEED CANNOT BE INCREASED, TRIP THE F	
• IF SPEED CANNOT BE INCREASED, TRIP THE F	
O RESTORE SPEED TO STACHRONOUS SPEED. O IF SPEED CANNOT BE INCREASED, TRIP THE F	
○ IF SPEED CANNOT BE INCREASED, TRIP THE F DISCUSSION: THE POTENTIAL FOR DAMAGE OCCURS WHEN MAGNE EXCESSIVE EXCITATION IN AN ATTEMPT TO MAIN	TIC DEVICES ARE SATURATED BY TAIN OUTPUT VOLTAGE WHEN SPEED
○ IF SPEED CANNOT BE INCREASED, TRIP THE F DISCUSSION: THE POTENTIAL FOR DAMAGE OCCURS WHEN MAGNE	TIC DEVICES ARE SATURATED BY TAIN OUTPUT VOLTAGE WHEN SPEED P CONDITION TO THE VOLTS/HERTZ
<ul> <li>IF SPEED CANNOT BE INCREASED, TRIP THE F</li> <li>DISCUSSION:</li> <li>THE POTENTIAL FOR DAMAGE OCCURS WHEN MAGNE EXCESSIVE EXCITATION IN AN ATTEMPT TO MAIN IS DECREASING. THIS ALARM IS A TRUE PRETRI</li> </ul>	TIC DEVICES ARE SATURATED BY TAIN OUTPUT VOLTAGE WHEN SPEED P CONDITION TO THE VOLTS/HERTZ

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-04	0-06-04
	GENERA	TOR
	UNDER FRE	QUENCY
	EVENT POIN	T 1199
	and the state and you of the district of a product of a product of a state of the state	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
GENERATOR FREQUENCY INDICATION ON MAIN CO	NTROL BOARD.	
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB.</li> </ul>	D ON THE TGR SECTION	OF THE
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE</li> </ul>	D ON THE TGR SECTION	OF THE
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB.</li> </ul>	D ON THE TGR SECTION	OF THE
• UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	D ON THE TGR SECTION	OF THE
• UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	D ON THE TGR SECTION	OF THE
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> </ul>	D ON THE TGR SECTION	OF THE
• UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	D ON THE TGR SECTION	OF THE
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>NOTIFY SYSTEM DISPATCHER.</li> </ul>	D ON THE TGR SECTION DISABLED. ANY SYSTEM DISPATCHER FOR CORRECT	FREQUENC
<ul> <li>UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB.</li> <li>OPERATOR ACTIONS FOR A VALID ALARM:</li> <li>NOTIFY SYSTEM DISPATCHER.</li> <li>DISCUSSION:</li> <li>UNIT #3'S FREQUENCY CORRECTION CIRCUITS ARE PROBLEMS SHOULD BE DIRECTED TO THE SYSTEM D</li> </ul>	D ON THE TGR SECTION DISABLED. ANY SYSTEM DISPATCHER FOR CORRECT	FREQUENC

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-04 0-06-04
	GENERATOR UNDER FREQUENCY
	EVENT POINT 1200
INDICATED CONDITION: • GENERATOR FREQUENCY <b>&lt;59.5 HERTZ</b> AS SENSED	BY UNDERFREQUENCY CIRCUIT #F1.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • GENERATOR FREQUENCY INDICATION ON MAIN CO • UNDERFREQUENCY TIMER F1 OPERATING, LOCATE REAR MCB.	ONTROL BOARD.
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SYSTEM DISPATCHER.	
DISCUSSION: UNIT #3'S FREQUENCY CORRECTION CIRCUITS ARE PROBLEMS SHOULD BE DIRECTED TO THE SYSTEM D GENERATOR LOCKOUT TRIP ON UNDERFREQUENCY IS	DISPATCHER FOR CORRECTION. THE
REFERENCES: DRAWING 208-040 MT-102	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-04 0-06-04
	GENERATOR UNDER FREQUENCY
	EVENT POINT 1999
<pre>INDICATED CONDITION:     GENERATOR FREQUENCY &lt;58 HERTZ FOR &gt;12 SECUNDERFREQUENCY CIRCUIT #T3.</pre>	ONDS AS SENSED BY
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660. • NOTIFY SYSTEM DISPATCHER.	
DISCUSSION: THE DESIGN BEHIND THIS CIRCUIT WAS TO ALLOW REMAIN POWERED FROM THE AUXILIARY TRANSFORM DISTURBANCE BY OPENING THE UNITS OUTPUT BRE RUNBACK TO THE ICS MINIMUM LOAD SETTING. HO CONTACT NOW ENERGIZES 86/UTPX WHEN THE 12 S TURBINE TRIP RESULTS. (SEE DRAWINGS 208-079	AFTER A SYSTEM FREQUENCY AKERS AND ALLOWING THE UNIT TO WEVER, A 500 KV SUBSTATION ECOND TIMER ELAPSES, AND A
REFERENCES: DRAWING 208-040 MT-102	
SENSING ELEMENT: CN/58HZ/T3	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-05	0-06-05
and the second		
	EVOTT	CD.
	EXCIT FIRING POWER L	CKT
	EVENT POIN	T 1653
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
	1:	
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF POWER. • CHECK FIRING CIRCUIT DRAWER #1 POWER SUPF	LY FUSE ND IN PARALLEL. THEY S MPLIFIER. EITHER FIRIN	IG CIRCUIT
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF POWER. • CHECK FIRING CIRCUIT DRAWER #1 POWER SUPF DISCUSSION: THE FIRING CIRCUIT DRAWERS ARE REDUNDANT AN FIRING PULSES TO THE INVERTER TYPE POWER AN DRAWER WILL PROVIDE SERVICE, BUT THE LOSS O	LY FUSE ND IN PARALLEL. THEY S MPLIFIER. EITHER FIRIN	IG CIRCUIT

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	TGF-AX3-06-05 0-06-05
	EXCITER FIRING CKT POWER LOSS
	EVENT POINT 1654
INDICATED CONDITION: • LOSS OF POWER SUPPLY TO EXCITER FIRING CI	IRCUIT DRAWER #2.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF POWER. • CHECK FIRING CIRCUIT DRAWER #2 POWER SUPP	PLY FUSE
• INVESTIGATE CAUSE OF LOSS OF POWER.	PLY FUSE
○ INVESTIGATE CAUSE OF LOSS OF POWER. ○ CHECK FIRING CIRCUIT DRAWER #2 POWER SUPP ○ CHECK FIRING CIRCUIT DRAWER #2 POWER SUPP	ND IN PARALLEL. THEY SUPPLY MPLIFIER. EITHER FIRING CIRCUIT
<ul> <li>O INVESTIGATE CAUSE OF LOSS OF POWER.</li> <li>O CHECK FIRING CIRCUIT DRAWER #2 POWER SUPPORT OF AN ANTICAL ANTICAL ANTICAL ANTICAL ANTICAL ANTICAL ANTICLES TO THE INVERTER TYPE POWER AND DRAWER WILL PROVIDE SERVICE, BUT THE LOSS OF ANTICLES ANTIC</li></ul>	ND IN PARALLEL. THEY SUPPLY MPLIFIER. EITHER FIRING CIRCUIT

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-06	0-06-06
	EXCI GROU	
	EVENT POI	NT 1656
INDICATED CONDITION: • EXCITER CIRCUIT GROUND DETECTED		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	l:	
OPERATOR ACTIONS FOR A VALID ALARM:		
<ul> <li>INVESTIGATE CAUSE OF EXCITER GROUND.</li> <li>NOTIFY SYSTEM ENGINEERING.</li> </ul>		
DISCUSSION:		
THE INSTALLED GROUND DETECTOR PERFORMS AN A 24 HOURS, USUALLY ON THE MIDNIGHT SHIFT. IT OF INSULATION RESISTANCE BELOW 13K OHMS, AN OHMS DEPENDING ON GROUND LOCATION. ANY VALU SATISFACTORY.	T WILL ANNUNCIATE FOR ND BETWEEN 13K OHMS A	ALL VALUE ND 100K
REFERENCES: DRAWING 208-057 TB-18		
SENSING ELEMENT: EXCITER SWITCHGEAR 64 CONTA	ACT	

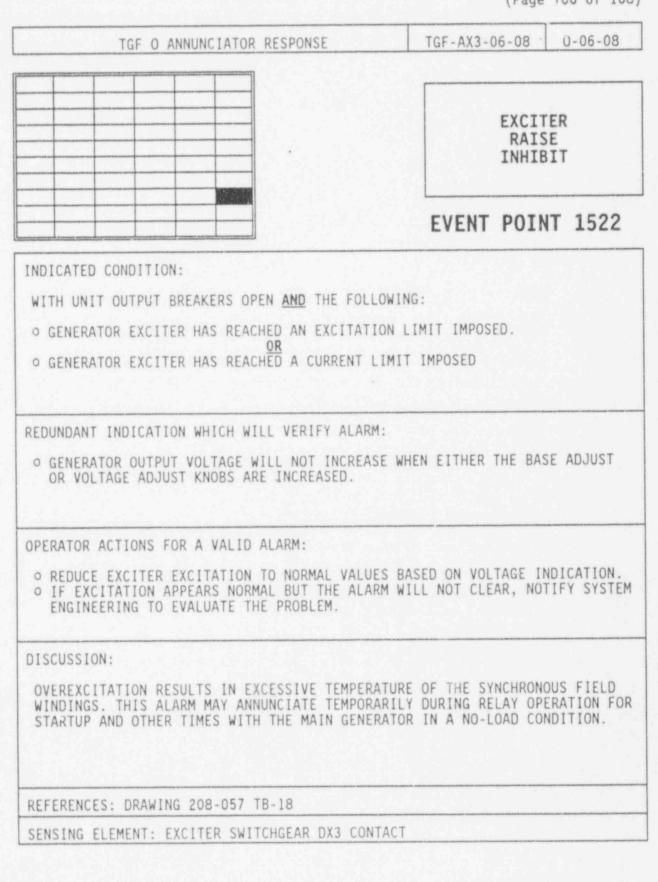
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-07 0-06-07
	EXCITER LIMITED PRETRIP
	EVENT POINT 1650
INDICATED CONDITION: • EXCITER EXCITATION IS HIGHER THAN A PRESE	T VALUE.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	
OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE EXCITER EXCITATION TO NORMAL VALUE	ES BASED ON VOLTAGE INDICATION.
DISCUSSION: OVEREXCITATION RESULTS IN EXCESSIVE TEMPERA WINDINGS. THIS ALARM, CALLED AN "EXCITATION EXCITATION PRESET VALUES HAVE BEEN EXCEEDED	N FORCING ALARM" WARNS THAT
REFERENCES: DRAWING 208-057 TB-18	

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0-06-09 TGF-AX3-06-09 TGF O ANNUNCIATOR RESPONSE GEN RELAY POT XFMR FAILURE EVENT POINT 0688 INDICATED CONDITION: O GENERATOR POTENTIAL TRANSFORMER FAILED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: OPERATOR ACTIONS FOR A VALID ALARM: ○ INVESTIGATE LOSS OF GENERATOR POTENTIAL TRANSFORMER. DISCUSSION: LOSS OF THE GENERATOR POTENTIAL TRANSFORMER WILL HAVE UNPREDICTABLE EFFECTS ON THE OPERATION OF THE GENERATOR BACKUP RELAY (ie. MAY CAUSE IT TO ACTUATE INADVERTENTLY OR FAIL TO OPERATE FOR A VALID CONDITION). THE GENERATOR BACKUP RELAY PROVIDES TRIP FUNCTION FOR THE MAIN GENERATOR OUTPUT BREAKERS FOR GENERATOR OR BUS ELECTRICAL FAULTS. REFERENCES: DRAWING 208-040 MT-76 SENSING ELEMENT: K60/A RELAY CONTACT

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-09 0-06-09
	GEN RELAY POT XFMR FAILURE
	EVENT POINT 0689
INDICATED CONDITION: • EXCITER POTENTIAL TRANSFORMER FAILED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE LOSS OF EXCITER POTENTIAL TRA	NSFORMER.
DISCUSSION:	
LOSS OF THE EXCITER POTENTIAL TRANSFORMER W EFFECTS ON THE OPERATION OF THE GENERATOR F CAUSE IT TO ACTUATE INADVERTENTLY OR FAIL T CONDITION).	FIELD FAILURE RELAY (ie. MAY
THE GENERATOR BACKUP RELAY PROVIDES TRIP FU OUTPUT BREAKERS FOR GENERATOR OR BUS ELECTR	UNCTION FOR THE MAIN GENERATOR RICAL FAULTS.
REFERENCES: DRAWING 208-040 MT-76	
SENSING ELEMENT: K60/B RELAY CONTACT	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10 0-06-10
	ISOLATED PHASE BUS DUCT TROUBLE
	EVENT POINT 1645
INDICATED CONDITION:	
GENERATOR FIELD BREAKER CLOSED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM • ISOLATED PHASE BUS DUCT FLOW LOW EVENT PO BUS DUCT TEMPERATURE HIGH EVENT POINT 164	)INT 1647 OR, ISOLATED PHASE
OPERATOR ACTIONS FOR A VALID ALARM: O IMMEDIATELY REDUCE LOAD TO < THE SELF COOL AS INDICATED ON THE GENERATOR AMPS DIAL IN MAINTAIN THE DUCT TEMPERATURE < 151° BY RE OUTPUT AND TRANSFERRING LOADS FROM THE AUX O NOTIFY SECONDARY PLANT OPERATOR TO MONITOF ON TB-338-TS, AND INVESTIGATE PROBLEMS.	ED RATING OF 10,000 AMPS DICATOR ON THE TGF PANEL. EDUCTION IN GENERATOR (ILIARY TRANSFORMER.
DISCUSSION:	
• THE RATE OF LOAD REDUCTION SHOULD BE BASE TEMPERATURE.	ED ON THE RATE OF RISE OF DUCT
	ED ON THE RATE OF RISE OF DUCT

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10 0-06-10
	ISOLATED PHASE BUS DUCT TROUBLE
	EVENT POINT 1646
INDICATED CONDITION:	
O PHASE BUS DUCT RETURN AIR TEMPERATURE >15	51 °F AS SENSED BY TB-338-TS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
OPERATOR ACTIONS FOR A VALID ALARM:	enderlanden mit der sone einen einen einen eine eine einen einen eine einen der einen einen einen einen einen e
<ul> <li>IF FORCED COOLING HAS BEEN LOST, THEN IMM SELF COOLED RATING OF 10,000 AMPS AS INDI INDICATOR ON THE TGF PANEL.</li> <li>MAINTAIN THE DUCT TEMPERATURE &lt; 151° F BY AND TRANSFERRING LOADS FROM THE AUXILIARY</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO MONITO ON TB-338-TS, AND INVESTIGATE PROBLEMS.</li> </ul>	ICATED ON THE GENERATOR AMPS Y REDUCTION IN GENERATOR OUTPUT Y TRANSFORMER.
DISCUSSION:	
<ul> <li>THE RATE OF LOAD REDUCTION SHOULD BE BASI DUCT TEMPERATURE.</li> </ul>	ED ON THE RATE OF RISE OF
REFERENCES: DRAWING 208-057 TB-23	
SENSING ELEMENT: TB-338-TS	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10 0-06-10
	ISOLATED PHASE BUS DUCT TROUBLE
	EVENT POINT 1647
INDICATED CONDITION:	
○ PHASE BUS DUCT AIR FLOW AS SENSED BY TB-3	38-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
<ul> <li>PHASE BUS DUCT BLOWER FAN NOT RUNNING WIT GENERATOR FIELD BREAKER CLOSED EVENT POIN</li> </ul>	H SWITCH IN AUTO AND THE IT 1645 OR 1655.
OPERATOR ACTIONS FOR A VALID ALARM:	
<ul> <li>IF FORCED COOLING HAS BEEN LOST, THEN IMM SELF COOLED RATING OF 10,000 AMPS AS INDIDIAL INDICATOR ON THE TGF PANEL.</li> <li>MAINTAIN THE DUCT TEMPERATURE &lt; 151° F BY AND TRANSFERRING LOADS FROM THE AUXILIARY</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.</li> </ul>	CATED ON THE GENERATOR AMPS REDUCTION IN GENERATOR OUTPUT TRANSFORMER.
DISCUSSION:	
<ul> <li>THE RATE OF LOAD REDUCTION SHOULD BE BASE DUCT TEMPERATURE.</li> </ul>	ED ON THE RATE OF RISE OF
REFERENCES: DRAWING 208-057 TB-23	
SENSING ELEMENT: TB-339-FS	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10 0-06-10
	P
	ISOLATED PHASE
	BUS DUCT TROUBLE
	INUDEL
	EVENT POINT 1652
INDICATED CONDITION:	
• PHASE BUS DUCT AIR HUMIDITY >50% AS SENSE	D BY TR-341-HS
A MASE BUS DUCT AIK HUMIDILL >00% AS SENSE	.0 01 10-341-03.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:
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OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	
OPERATOR ACTIONS FOR A VALID ALARM:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.	
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OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM. DISCUSSION:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10	0-06-10
	ISOLATED PHASE BUS DUCT TROUBLE	
	EVENT POIN	NT 1655
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O ISOLATED PHASE BUS DUCT AIR FLOW LOW EVEN ISOLATED PHASE BUS DUCT TEMPERATURE HIGH	T POINT 1647 OR,	
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • IMMEDIATELY REDUCE LOAD TO < THE SELF COU AS INDICATED ON THE GENERATOR AMPS DIAL I • MAINTAIN THE DUCT TEMPERATURE <151° F BY OUTPUT AND TRANSFERRING LOADS FROM THE AU • NOTIFY SECONDARY PLANT OPERATOR TO MONITO LOCALLY ON TB-338-TS, AND INVESTIGATE PRO	INDICATOR ON THE TGF REDUCTION IN GENERAT JXILIARY TRANSFORMER. DR THE DUCT TEMPERATU	PANEL. OR
<ul> <li>IMMEDIATELY REDUCE LOAD TO &lt; THE SELF COO AS INDICATED ON THE GENERATOR AMPS DIAL D MAINTAIN THE DUCT TEMPERATURE &lt;151° F BY OUTPUT AND TRANSFERRING LOADS FROM THE AU</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO MONITOR</li> </ul>	INDICATOR ON THE TGF REDUCTION IN GENERAT JXILIARY TRANSFORMER. OR THE DUCT TEMPERATU OBLEMS.	PANEL - OR RE
<ul> <li>IMMEDIATELY REDUCE LOAD TO &lt; THE SELF COO AS INDICATED ON THE GENERATOR AMPS DIAL 1</li> <li>MAINTAIN THE DUCT TEMPERATURE &lt;151° F BY OUTPUT AND TRANSFERRING LOADS FROM THE AL</li> <li>NOTIFY SECONDARY PLANT OPERATOR TO MONITO LOCALLY ON TB-338-TS, AND INVESTIGATE PRO</li> <li>DISCUSSION:</li> <li>THE RATE OF LOAD REDUCTION SHOULD BE BASE</li> </ul>	INDICATOR ON THE TGF REDUCTION IN GENERAT JXILIARY TRANSFORMER. OR THE DUCT TEMPERATU OBLEMS.	PANEL - OR RE

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10	0-06-10
	r	
	ISOLATED	PHASE
	BUS DUCT TROUBLE	
	EVENT POIL	NT 1675
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1.	
OPERATOR ACTIONS FOR A VALID ALARM:		-
	IGATE ISOLATED PHASE	BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM:	IGATE ISOLATED PHASE	BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM AIR FILTER, AND REPLACE AS	IGATE ISOLATED PHASE	BUS DUCT

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