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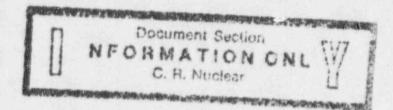
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Rev. 13 Effective Date 11-30-95



ANNUNCIATOR RESPONSE

AR-603

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

TGF O ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact

(SIGNATURE ON FILE) G. P. HEBB

DATE: 11/29/95

INTERPRETATION CONTACT: Manager, Nuclear Operations Support

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1 Annunciator	Response																								3
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1.0 PURPOSE

- 1.1 Establish a reference document for each Annunciator Window on the TGF-AX3 Lampbox.
- 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 PT-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

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 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-01	0-01-01
	TURB BRG OII TR	L PUMP
	EVENT POI	NT 1614
INDICATED CONDITION: • TBP-2 BREAKER OPEN WITH CONTROL HANDLE I POSITION.	N THE NORMAL AFTER ST	ART
○ 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:		

ENCLOSURE 1 (Page 2 of 105)

of the " Unity would a short to report the set form which it rest in work of an			NAME AND POST OFFICE ADDRESS OF TAXABLE PARTY.	 supplier in the second s	
TGE	0	ANNUNCIATOR	RESPONSE	 TGF-AX3-01-01	0-01-01
Tur	V	AMMUNCIATOR	RESPONSE	 101-442-01-01	0-01-01

TI	JRB	GEN
BRG	OIL	PUMP
	TRI	P

EVENT POINT 1618

INDICATED CONDITION:

 TBP-3 DC STARTER OPEN WITH CONTROL HANDLE IN NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

• GREEN LIGHT IS ON WITH A RED FLAG ON CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

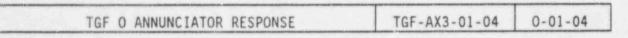
ENSURE TBP-2 AUTO STARTS
 ENSURE TBP-8 AUTO STARTS

DISCUSSION:

REFERENCES: DRAWING 208-057 TB-12

SENSING ELEMENT: CS/SC, CS/O CONTROL STATION CONTACTS, 42X STARTER CONTACT

ENCLOSURE 1 (Page 3 of 105)



TURB GEN BRG OIL PUMP AUTO START

EVENT POINT 1613

INDICATED CONDITION:

O TBP-2 BREAKER CLOSED WITH CONTROL HANDLE IN NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

RED LIGHT IS ON WITH A GREEN FLAG ON CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

INVESTIGATE CAUSE OF OIL PUMP AUTO START.
 CHECK MAIN LUBE OIL PRESSURE.

DISCUSSION:

LUBE OIL PRESSURE <12 PSIG AS SENSED BY TB-254-PS AUTO STARTS TPB-2

REFERENCES: DRAWING 208-057 TB-03

SENSING ELEMENT: CS/ST, CS/O CONTROL STATION CONTACTS, 42A BREAKER CONTACT

ENCLOSURE 1 (Page 4 of 105)

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	TGF O	ANNUNCIATOR	RESPONSE	TGF-AX3-01-04	0-01-04

TURB GEN BRG OIL PUMP AUTO START

EVENT POINT 1617

INDICATED CONDITION:

O TBP-3 STARTER CLOSED WITH CONTROL HANDLE IN NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

• RED LIGHT IS ON WITH A GREEN FLAG ON CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

INVESTIGATE CAUSE OF OIL PUMP AUTO START.
 CHECK MAIN LUBE OIL PRESSURE.

DISCUSSION:

LUBE OIL PRESSURE <10 PSIG AS SENSED BY TB-253-PS AUTO STARTS TPB-3

REFERENCES: DRAWING 208-057 TB-12

SENSING ELEMENT: CS/ST, CS/O CONTROL STATION CONTACTS, 42X STARTER CONTACT

ENCLOSURE 1 (Page 5 of 105)

TGE O	ANNUNCIATOR RESPONSE	TGF-AX3-01-05	0-01-05
101 0	ANNOIGTAION REDIVINGE	141 110 01 00	0 04 00

HP SEAL OIL BACKUP PUMP TRIP

EVENT POINT 1616

INDICATED CONDITION:

• TBP-8 BREAKER OPEN WITH CONTROL HANDLE IN NORMAL AFTER START POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

• GREEN LIGHT IS ON WITH A RED FLAG ON CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

• ENSURE EITHER TBP-2 OR TBP-3, AND TBP-4 ARE RUNNING.

ENSURE TBP-5 OR TBP-10 IS RUNNING.

• INVESTIGATE CAUSE OF TBP-8 TRIP.

DISCUSSION:

REFERENCES: DRAWING 208-057 TB-04

SENSING ELEMENT: CS/ST, CS/O CONTROL STATION CONTACTS, 42B BREAKER CONTACT

ENCLOSURE 1

(Page 6 of 105)

TGF O	ANNUNCIATOR RESPONSE	TGF-AX3-01-06	0-01-06

HP SEAL OIL BACKUP PUMP AUTO START

EVENT POINT 1615

INDICATED CONDITION:

• TBP-8 BREAKER CLOSED WITH CONTROL HANDLE IN NORMAL AFTER STOP POSITION.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

• RED LIGHT IS ON WITH A GREEN FLAG ON CONTROL STATION.

OPERATOR ACTIONS FOR A VALID ALARM:

• INVESTIGATE CAUSE OF TBP-8 AUTO START.

CHECK OPERATION OF RUNNING TURBINE GENERATOR OIL AND SEAL OIL PUMP(S).
 CHECK MAIN LUBE OIL PRESSURE.

DISCUSSION:

DECREASING LUBE OIL PRESSURE <10 PSIG AS SENSED BY TB-254-PS AUTO STARTS HIGH PRESSURE SEAL OIL BACK-UP PUMP, TBP-8

REFERENCES: DRAWING 208-057 TB-04

SENSING ELEMENT: CS/ST, CS/O CONTROL STATION CONTACTS, 42A BREAKER CONTACT

ENCLOSURE 1 (Page 7 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB	and the second
	LUBE 01 TROU	
	EVENT POI	NT 0310
<pre>INDICATED CONDITION: MAIN TURBINE LUBE OIL PURIFIER OVERFLOW CH LO-41-LS2.</pre>	HAMBER LEVEL HIGH AS	SENSED BY
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE CAUSE OF HIGH	OIL LEVEL.
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	LEL FILTER BAGS. OIL PIVOT FOR MAINTENAN	IS FED TO CE. THESE
DISCUSSION: LUBE OIL IS PROCESSED THROUGH SEVERAL PARALI THESE FILTER BAGS THROUGH NOZZLES WHICH CAN PIVOT JOINTS ARE SEALED WITH O-RINGS THAT SO	LEL FILTER BAGS. OIL PIVOT FOR MAINTENAN DMETIMES LEAKBY. LEA	IS FED TO CE. THESE KAGE AT
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST DISCUSSION: LUBE OIL IS PROCESSED THROUGH SEVERAL PARALL THESE FILTER BAGS THROUGH NOZZLES WHICH CAN PIVOT JOINTS ARE SEALED WITH O-RINGS THAT SO THIS JOINT WILL FILL THE OVERFLOW CHAMBER. THE LUBE OIL PURIFIER INLET VALVE (LOV-66)	LEL FILTER BAGS. OIL PIVOT FOR MAINTENAN DMETIMES LEAKBY. LEA	IS FED TO CE. THESE KAGE AT

ENCLOSURE 1 (Page 8 of 105)

	TGF-AX3-01-07	0-01-07	
management and a second se			
	TURB	GEN	
	LUBE OI TROUE	_ SYS	
	EVENT POIN	T 0311	
INDICATED CONDITION:			
○ LOP-1 TRIPPED.			
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	۹:		
OPERATOR ACTIONS FOR A VALID ALARM:			
• NOTIFY SECONDARY PLANT OPERATOR TO INVES	TIGATE CAUSE OF PUMP T	RIP.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVES	TIGATE CAUSE OF PUMP T	RIP.	
		RIP.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVES	R CIRCULATING PUMP. -LS. ON A DECREASING L LAY. THIS TRIPS LOP-1 WILL ALARM. THIS IS A	EVEL THIS AND WITH COMMON	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST DISCUSSION: LOP-1 IS THE MAIN TURBINE LUBE OIL PURIFIED MAIN PURIFIER OIL LEVEL IS SENSED BY LO-25 SWITCH WILL OPEN DROPPING OUT 3LO-25-LS REI THE CONTROL HANDLE IN NORMAL AFTER START, I CONDITION AFTER LOV-66 HAS CLOSED. LOP-24	R CIRCULATING PUMP. -LS. ON A DECREASING L LAY. THIS TRIPS LOP-1 WILL ALARM. THIS IS A	EVEL THIS AND WITH COMMON	

ENCLOSURE 1 (Page 9 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROUE	L SYS
	EVENT POIN	IT 0312
NDICATED CONDITION: • LOP-2A TRIPPED.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES		
O NUTIFY SECONDART PLANT OPERATOR TO INVES	TIGATE CAUSE OF POMP I	KIF.
DISCUSSION: LOP-2A IS THE "A" FEED PUMP LUBE OIL PURIF	IER CIRCULATING PUMP.	-
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 A HIGH CONSOLE OIL LEVEL MAY BE CAUSED BY DISCHARGE FLOW AND THE RETURN DRAIN FLOW.	Y 3FW-207-LS) INCREASI BY 3LO-25-LS) WILL TR	RIP LOP-2A
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 A HIGH CONSOLE OIL LEVEL MAY BE CAUSED BY	Y 3FW-207-LS) INCREASI BY 3LO-25-LS) WILL TR	IP LOP-2A

ENCLOSURE 1 (Page 10 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI	L SYS
	TROUE	BLE
	EVENT POIN	NT 0313
INDICATED CONDITION:		
◦ LOP-2B TRIPPED.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	l:	
OPERATOR ACTIONS FOR A VALID ALARM:		na aldarada na referenda a fari
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE CAUSE OF PUMP	TRIP.
DISCUSSION:		
LOP-2B IS THE "B" FEED PUMP LUBE OIL PURIFI	ER CIRCULATING PUMP.	
EITHER "B" FW TURBINE CONSOLE (AS SENSED BY LEVEL OR LOW PURIFIER OIL LEVEL (AS SENSED A HIGH CONSOLE OIL LEVEL MAY BE CAUSED BY A DISCHARGE FLOW AND THE RETURN DRAIN FLOW.	BY 3LO-25-LS) WILL TH	RIP LOP-2B
REFERENCES: DRAWING 208-038 LO-03		
SENSING ELEMENT: CS/SC,CS/O (CONTROL STATION	CONTACTS) 42/B BREAK	KER CONTAC

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROUE	L SYS
	EVENT POIN	IT 0315
INDICATED CONDITION: • LOF-1 TRIPPED.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE CAUSE OF FAN TR	NIP.
DISCUSSION: LOF-1 IS THE MAIN TURBINE LUBE OIL PURIFIER	EXHAUSTER FAN.	
THIS FAN NORMALLY RUNS CONTINUOUSLY AND HAS BREAKER OVERCURRENT DEVICES. (INSTANTANEOUS	NO TRIPS OTHER THAN	
REFERENCES: DRAWING 208-038 LO-05		
SENSING ELEMENT: 42/B BREAKER CONTACT		

ENCLOSURE 1 (Page 12 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB GEN LUBE OIL SYS TROUBLE	
	EVENT POIN	IT 0316
O MAIN TURBINE LUBE OIL PURIFIER LEVEL HIGH	AS SENSED BY LO-24-1	.s.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE CAUSE OF HIGH I	EVEL.
DISCUSSION:		
THIS ALARM IS HIGH PURIFIER LEVEL ONLY. NO DOES LOV-66 TRIP CLOSED.	PUMP TRIPS ARE INVOLV	/ED, NOR
REFERENCES: DRAWING 208-038 LO-06		

ENCLOSURE 1 (Page 13 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROUE	L SYS
	EVENT POIN	IT 0317
INDICATED CONDITION:		
 FEEDWATER TURBINE LUBE OIL PURIFIER OVER SENSED BY LO-41-LS1. 	FLOW CHAMBER LEVEL HIG	SH AS
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	М:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES	TIGATE CAUSE OF HIGH C	DIL LEVEL.
DISCUSSION:		
DISCUSSION: LUBE OIL IS PROCESSED THROUGH SEVERAL PARA THESE FILTER BAGS THROUGH NOZZLES WHICH CA PIVOT JOINTS ARE SEALED WITH O-RINGS THAT THIS JOINT WILL FILL THE OVERFLOW CHAMBER.	N PIVOT FOR MAINTENANC	E. THESE
LUBE OIL IS PROCESSED THROUGH SEVERAL PARAL THESE FILTER BAGS THROUGH NOZZLES WHICH CAL PIVOT JOINTS ARE SEALED WITH O-RINGS THAT S	N PIVOT FOR MAINTENANC SOMETIMES LEAKBY. LEAK	AGE AT
LUBE OIL IS PROCESSED THROUGH SEVERAL PARAL THESE FILTER BAGS THROUGH NOZZLES WHICH CAN PIVOT JOINTS ARE SEALED WITH O-RINGS THAT S THIS JOINT WILL FILL THE OVERFLOW CHAMBER. THE LUBE OIL PURIFIER INLET VALVE (LOV-66)	N PIVOT FOR MAINTENANC SOMETIMES LEAKBY. LEAK	AGE AT

ENCLOSURE 1 (Page 14 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-07	0-01-07
	TURB LUBE OI TROU	IL SYS
	EVENT POI	NT 0318
INDICATED CONDITION: • FEEDWATER TURBINE LUBE OIL PURIFIER OVERI BY LO-25-LS.	FLOW CHAMBER LEVEL LO	W AS SENSED
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	۹:	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST	TIGATE CAUSE OF LOW O	UIL LEVEL.
		DIL LEVEL.
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST		OIL LEVEL.

ENCLOSURE 1 (Page 15 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-09	0-01-09
	GLAND DRN TNK	LEVEL
	EVENT POI	
NDICATED CONDITION:	" AS SENSED BY TD-3-	LS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
DEDATOR ACTIONS FOR A VALID ALARM.		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO ENSURE	TDV-40 CLOSED.	
• NOTIFY SECONDARY PLANT OPERATOR TO ENSURE	ITIONAL SOLENOID TO . THE LEVEL SETPOINT BUILDING FLOOR AT TH	IS E 95'
O NOTIFY SECONDARY PLANT OPERATOR TO ENSURE DISCUSSION: A MAR HAS BEEN INSTALLED WHICH ADDED AN ADD TDV-40 WHEN THE LOW LEVEL ALARM IS RECEIVED MEASURED FROM PLANT DATUM WITH THE TURBINE	ITIONAL SOLENOID TO . THE LEVEL SETPOINT BUILDING FLOOR AT TH	IS E 95'

ENCLOSURE 1 (Page 16 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10	0-01-10
	GLAND S	EM
	TROUE	ILE
	EVENT POIN	IT 0252
INDICATED CONDITION:		
• GLAND STEAM EXHAUST PRESSURE >10" H,0 AS	SENSED BY GS-1-PS.	
2		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM:		
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	TIGATE CAUSE OF HIGH P	RESSURE
O ENSURE ONE GLAND EXHAUST FAN IN OPERATION	I.	NEOSONE.
 ENSURE THE FOLLOWING: CONDENSATE FLOW TO GLAND STEAM EXH 	AUST CONDENSER	
FAN IS NOT FULL OF WATER GLAND STEAM SUPPLY IS NOT EXCESSIV	/F	
DICOUCCION		
DISCUSSION:		
REFERENCES: DRAWING 208-033 GS-01		
REFERENCES: DRAWING 208-033 GS-01 SENSING ELEMENT: GS-1-PS		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10	0-01-10
	GLAND S SYST TROUE	EM
	EVENT POIN	IT 0253
INDICATED CONDITION: • GSF-1A TRIPPED.		
© GREEN LIGHT IS ON WITH A RED FLAG ON CONT		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST • PLACE ALTERNATE GLAND EXHAUST FAN IN OPER		RIP.
DISCUSSION.		
REFERENCES: DRAWING 208-033 GS-01		
SENSING ELEMENT: CS/SC, CS/O CONTROL STATION	CONTACTS, 42/B BREAK	ER CONTACT

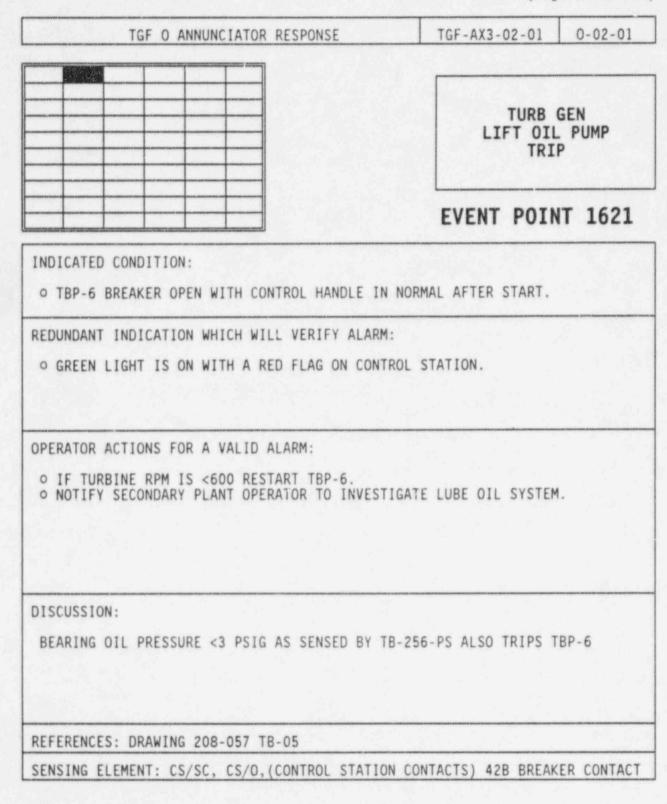
ENCLOSURE 1 (Page 18 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-01-10	0-01-10
	GLAND SYST TROUT	EM
	EVENT POIL	NT 0254
INDICATED CONDITION: • GSF-1B 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 INVEST • PLACE ALTERNATE GLAND EXHAUST FAN IN OPER.	IGATE CAUSE OF FAN TI ATION.	RIP.
DISCUSSION:		
REFERENCES: DRAWING 208-033 GS-02		
SENSING ELEMENT: CS/SC, CS/O CONTROL STATION	CONTACTS, 42/B BREA	KER CONTACT

ENCLOSURE 1 (Page 19 of 105)

	0-01-10
GLAND S SYST TROUB	EM
EVENT POIN	IT 0255
	2S
A LOW TO A L	the second se
AND STEAM PRESSURE	
AND STEAM PRESSURE	
·S .	
TE GLAND STEAM PRE TINE 3A. NE 3A. TINE 3B.	
	EVENT POIN GS-6-PS.

ENCLOSURE 1 (Page 20 of 105)



ENCLOSURE 1 (Page 21 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-02	0-02-02
	TURB LIFT OIL LOV	PRESS
	EVENT POIN	NT 1620
INDICATED CONDITION: • TURBINE GENERATOR BEARING LIFT OIL PRESSU BY TB-331-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM		ED
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TBM-1 IS SHUTDOWN. • DO NOT ROLL TURBINE UNTIL ALARM CONDITION • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		
		1.
DISCUSSION: THIS CONDITION SHOULD BE CORRECTED EXPEDITI TURBINE TO BE IDLE FOR AN EXTENDED PERIOD W SHAFT WHERE A SHAFT BOW COULD DEVELOP.		AUSE THE
THIS CONDITION SHOULD BE CORRECTED EXPEDITI TURBINE TO BE IDLE FOR AN EXTENDED PERIOD W		AUSE THE

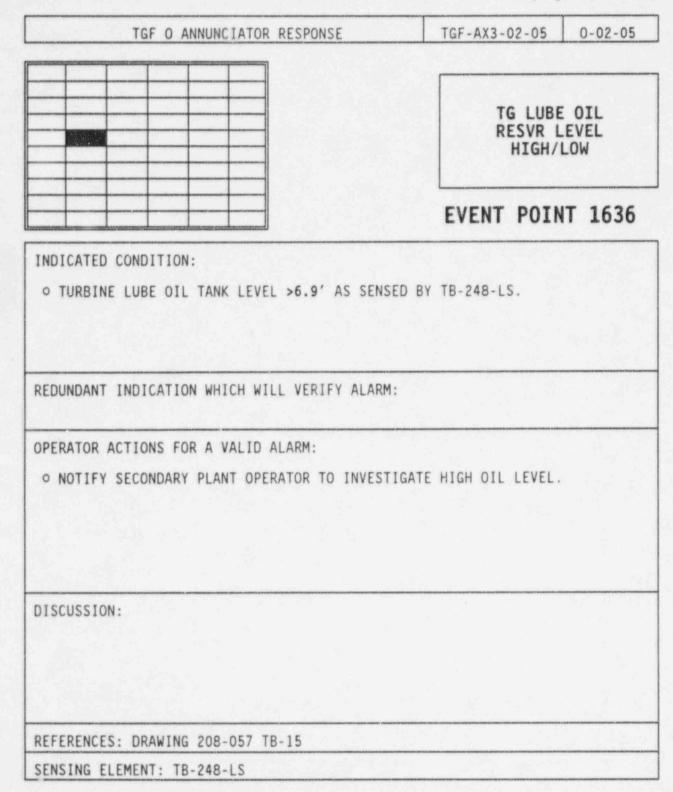
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-03	0-02-03
	TURB GEN OIL PRESS PRETRIP	
	EVENT POIN	IT 1631
INDICATED CONDITION:		a an
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM:		
 REFER TO AP-660. CHECK MAIN LUBE OIL PRESSURE. NOTIFY SECONDARY PLANT OPERATOR TO INVEST 	IGATE LUBE OIL SYSTEM	1.
O CHECK MAIN LUBE OIL PRESSURE.	IGATE LUBE OIL SYSTEM	1.
 CHECK MAIN LUBE OIL PRESSURE. NOTIFY SECONDARY PLANT OPERATOR TO INVEST 		
 CHECK MAIN LUBE OIL PRESSURE. NOTIFY SECONDARY PLANT OPERATOR TO INVEST DISCUSSION: TURBINE TRIP ON LOW MAIN TURBINE BEARING OF 		

ENCLOSURE 1 (Page 23 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-04	0-02-04
	TUDE	CEN
	TURB GEN EMERG BRG P OVERLOAD	
	EVENT POIN	IT 1619
INDICATED CONDITION:		
• TBP-3 MOTOR OVERLOAD.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
• WHITE INDICATING LIGHT IS OUT (LUBE OIL F		
WHITE INDICATING LIGHT IS OUT (LODE OIL)	RESSORE (ES FSIG)	
OPERATOR ACTIONS FOR A VALID ALARM:		
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	TIGATE THERMAL OVERLOA	D ON
 IF TURBINE ROLLING THEN START TBP-2. CHECK MAIN LUBE OIL PRESSURE. NOTIFY SECONDARY PLANT OPERATOR TO INVEST 	TIGATE THERMAL OVERLOA	D ON
 IF TURBINE ROLLING THEN START TBP-2. CHECK MAIN LUBE OIL PRESSURE. NOTIFY SECONDARY PLANT OPERATOR TO INVEST BREAKER 	HAS TRIPPED. YOU MAY S ATION. IF THE PUMP IS ON THE CONTROL STATION	NILL HAVE
 O IF TURBINE ROLLING THEN START TBP-2. O CHECK MAIN LUBE OIL PRESSURE. O NOTIFY SECONDARY PLANT OPERATOR TO INVEST BREAKER DISCUSSION: THIS ALARM TELLS YOU THE THERMAL OVERLOAD H THE RED INDICATING LIGHT ON THE CONTROL ST/ OPERATION THEN THE WHITE INDICATING LIGHT OF 	HAS TRIPPED. YOU MAY S ATION. IF THE PUMP IS ON THE CONTROL STATION	NOT IN

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ENCLOSURE 1 (Page 25 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-05	0-02-05
	TG LUBE OIL RESVR LEVEL HIGH/LOW	
	EVENT POIN	IT 1637
INDICATED CONDITION:		
⊃ TURBINE LUBE OIL TANK LEVEL <5.9' AS SENS	ED BY TB-248-LS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM.		
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	
	IGATE LOW OIL LEVEL.	
	IGATE LOW OIL LEVEL.	
	IGATE LOW OIL LEVEL.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	
	IGATE LOW OIL LEVEL.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	IGATE LOW OIL LEVEL.	

ENCLOSURE 1

(Page 26 of 105) TGF O ANNUNCIATOR RESPONSE TGF-AX3-02-06 0-02-06 TURB GEN BRG OIL PUMP OUT OF SERVICE **EVENT POINT 1678** INDICATED CONDITION: O TBP-2 IN PULL TO LOCK POSITION. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: OPERATOR ACTIONS FOR A VALID ALARM: DISCUSSION: THIS IS AN EXPECTED ALARM FOR BREAKER TAGGING OPERATIONS. REFERENCES: DRAWING 208-057 TB-03 SENSING ELEMENT: CS/PTL CONTROL STATION CONTACT

ENCLOSURE 1 (Page 27 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-06	0-02-06
	TURB BRG OIL OUT OF SI	PUMP
	EVENT POIN	T 1679
INDICATED CONDITION: • TBP-3 IN PULL TO LOCK POSITION.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM:		
DISCUSSION: THIS IS AN EXPECTED ALARM FOR BREAKER TAGGING	OPERATIONS.	
REFERENCES: DRAWING 208-057 TB-12		
SENSING ELEMENT: CS/PTL CONTROL STATION CONTAC	Τ	

ENCLOSURE 1 (Page 28 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-07	0-02-07
	TG LUBE VAPOR E TROUE	XTRCT
	EVENT POINT 16	
 TURBINE GENERATOR LUBE OIL RESERVOIR PRES BY TB-285-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM COMPUTER POINT TO21 		AS SENSED
OPERATOR ACTIONS FOR A VALID ALARM:		
ONOTIFY SECONDARY PLANT OPERATOR TO INVEST VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER OF		SERVOIR
		SERVOIR
VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER OF	PERATION.	
VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER OF DISCUSSION: A MISADJUSTED FAN DAMPER AND/OR EXCESSIVE #	PERATION. AIR INLEAKAGE COULD CA SMALL NEGATIVE PRESSUR FAN HAS A DISCHARGE DA	AUSE THIS RE ON THE
VAPOR EXTRACTOR FAN (LOF-4) FOR PROPER OF DISCUSSION: A MISADJUSTED FAN DAMPER AND/OR EXCESSIVE A ALARM. THE RESEPVOIR VAPOR EXTRACTOR FAN KEEPS A S TURBINE GENERATOR LUBE OIL RESERVOIR. THE F	PERATION. AIR INLEAKAGE COULD CA SMALL NEGATIVE PRESSUR FAN HAS A DISCHARGE DA	AUSE THIS RE ON THE

ENCLOSURE 1 (Page 29 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-02-07	0-02-07
		
	TG LUBE	110
	VAPOR E	XTRCT
	TROUBLE	
	EVENT POIN	IT 1643
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES DRAIN TANK VAPOR EXTRACTOR FAN (TBP-9) FO	TIGATE GENERATOR BEARI OR PROPER OPERATION.	NG OIL
• NOTIFY SECONDARY PLANT OPERATOR TO INVEST	TIGATE GENERATOR BEARI OR PROPER OPERATION.	NG OIL
• NOTIFY SECONDARY PLANT OPERATOR TO INVES DRAIN TANK VAPOR EXTRACTOR FAN (TBP-9) FO	MALL NEGATIVE PRESSURE	ON THE
 NOTIFY SECONDARY PLANT OPERATOR TO INVEST DRAIN TANK VAPOR EXTRACTOR FAN (TBP-9) FO DISCUSSION: THE SEAL OIL VAPOR EXTRACTOR FAN KEEPS A SI TURBINE GENERATOR SEAL OIL LOOP SEAL. THE 	MALL NEGATIVE PRESSURE	ON THE

ENCLOSURE 1 (Page 30 of 105)

	TGF-AX3-03-01	0-03-01
	MAIN TURB TRIP	
	EVENT POIN	NT 1624
NDICATED CONDITION:		
• TURBINE AUTO STOP OIL PRESSURE <45 PSIG A	S SENSED BY TB-324-PS	5.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
○ TURBINE TRIPPED INDICATION ON EHC CONTROL	PANEL.	
	PANEL.	
OPERATOR ACTIONS FOR A VALID ALARM:	PANEL.	
	PANEL.	
OPERATOR ACTIONS FOR A VALID ALARM:	(>20" HgV AND <23'	'HgV)
OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660 OR EOP. DISCUSSION: MAIN TURBINE TRIPS ARE AS FOLLOWS: -LOW CONDENSER VACUUM >7" HgA AND <10" HgA -LOW BEARING OIL PRESSURE <7 PSIG AND >5 P -TURBINE OVERSPEED >1960 RPM -EXCESSIVE AXIAL THRUST -REACTOR TRIP -MANUAL (LOCAL OR REMOTE)	(>20" HgV AND <23'	'HgV)

ENCLOSURE 1 (Page 31 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-02	0-03-02
	TUR	
	VACUUM PRETRIP	
	EVENT POIN	T 1630
INDICATED CONDITION:		an mana dari pi seran na na na na dari seran s
<pre>o MAIN CONDENSER VACUUM > 5" HgA (< 25" HgV</pre>) AS SENSED BY TB-265	5-PS.
-		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
• CONDENSER VACUUM INDICATION CD-7-PIR.		
OPERATOR ACTIONS FOR A VALID ALARM:		1. A.
 REFER TO OP-607. REFER TO OP-204 OR OP-203. ENSURE BACKUP AIR REMOVAL PUMP IS OPERATI UNIT LOADS < 30% (≈ 260 MWe) CONDENSER VA HgA (> 26.5" HgV) AND UNIT LOADS >30% CON BE MAINTAINED < 5.5" HgA (> 24.5" HgV). I WITHIN THESE LIMITS, THEN IMMEDIA ELY RED ANTICIPATORY TRIP SETPOINT AND TRIN THE M EXCEEDING CONDENSER VACUUM LIMITS. 	CUUM MUST BE MAINTAIN IDENSER VACUUM MUST F VACUUM CANNOT BE MA DUCE REACTOR POWER BEL	AINTAINED OW THE
DISCUSSION:		
THIS ALARM IS A TRUE PRETRIP ALARM. THE SET FROM >7" HgA TO <10" HgA, (>20" HgV TO		TRIP IS
Thom 27 figh to sto figh, (200 figh to		
SUBSTANTIAL TURBINE DAMAGE WILL OCCUR IF OP 5 MINUTES WHILE VACUUM IS BELOW THE ABOVE S		NORE THAN
SUBSTANTIAL TURBINE DAMAGE WILL OCCUR IF OP		MORE THAN

ENCLOSURE 1 (Page 32 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-03	0-03-03
	TUF THRUST PRET	r BRG
	EVENT POI	NT 1629
INDICATED CONDITION:		
OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE TURBINE LOAD. • REFER TO AP-660.	1:	
DISCUSSION:		
THIS ALARM IS A TRUE PRETRIP ALARM. THE SET >65 PSIG TO <80 PSIG.	FPOINT FOR A TURBINF	TRIP IS
REFERENCES: DRAWING 208-057 TB-15		

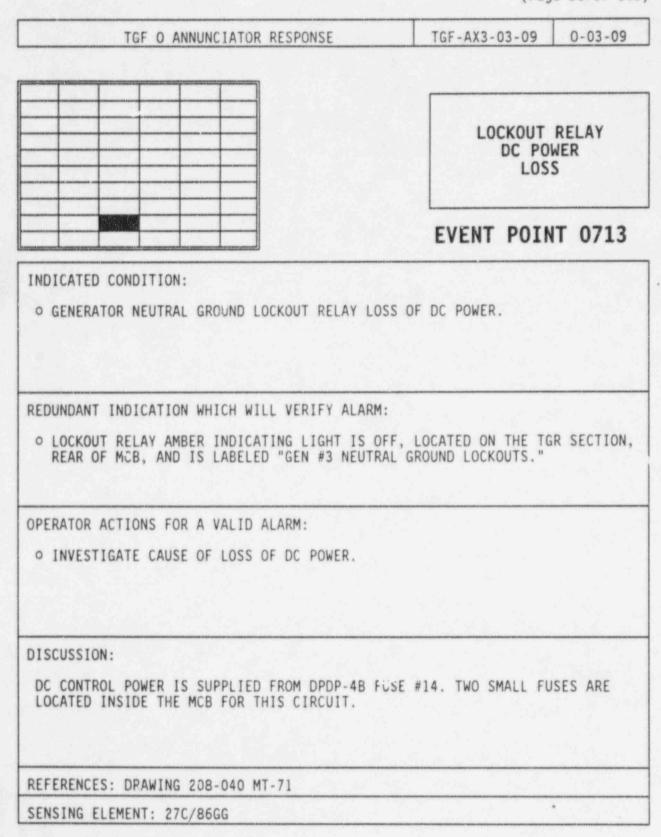
ENCLOSURE 1 (Page 33 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-04 0-0	03-04
	TURB THROTTL PRESSURE	LE
	EVENT POINT O	947
	EVENT POINT O	1947
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
 ENSURE CORRECT MAIN STEAM HEADER PRESSURE INVESTIGATE CAUSE OF HIGH THROTTLE PRESSURE 	SETPOINT IS SET ON IC-10	-MS.
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE CORRECT MAIN STEAM HEADER PRESSURE	SETPOINT IS SET ON IC-10	-MS.
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE CORRECT MAIN STEAM HEADER PRESSURE • INVESTIGATE CAUSE OF HIGH THROTTLE PRESSU	SETPOINT IS SET ON IC-10	-MS.
OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE CORRECT MAIN STEAM HEADER PRESSURE • INVESTIGATE CAUSE OF HIGH THROTTLE PRESSU • IF TURBINE IS NOT CONTROLLING, TAKE MANUA	SETPOINT IS SET ON IC-10	-MS.

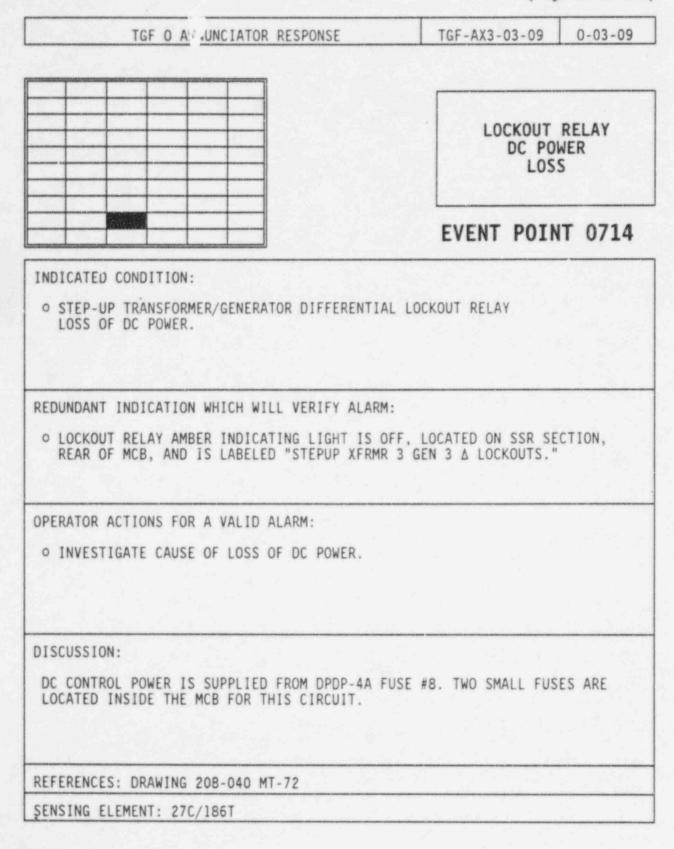
ENCLOSURE 1 (Page 34 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-04	0-03-04
	TURB THR PRESS HIGH/	URE
	EVENT POIN	IT 0948
INDICATED CONDITION:		
• TURBINE THROTTLE PRESSURE <835 PSIG AS SE	NSED BY SP-10-PS.	
REDUNDANT INDICATION SHICH WILL VERIFY ALARM		
• THROTTLE PRESSURE INDICATION SP-010A-PIR1	• <u></u>	
OPERATOR ACTIONS FOR A VALID ALARM:		
 ENSURE CORRECT MAIN STEAM HEADER PRESSURE INVESTIGATE CAUSE OF LOW THROTTLE PRESSUR 	Ε.	C-10-MS
• IF TURBINE IS NOT CONTROLLING, TAKE MANUA	L CONTROL OF TURBINE.	
	L CONTROL OF TORBINE.	
• IF TURBINE IS NOT CONTROLLING, TAKE MANUA	L CONTROL OF TORBINE.	
	L CONTROL OF TORBINE.	
• IF TURBINE IS NOT CONTROLLING, TAKE MANUA	L CONTROL OF TORBINE.	
• IF TURBINE IS NOT CONTROLLING, TAKE MANUA	L CONTROL OF TORBINE.	

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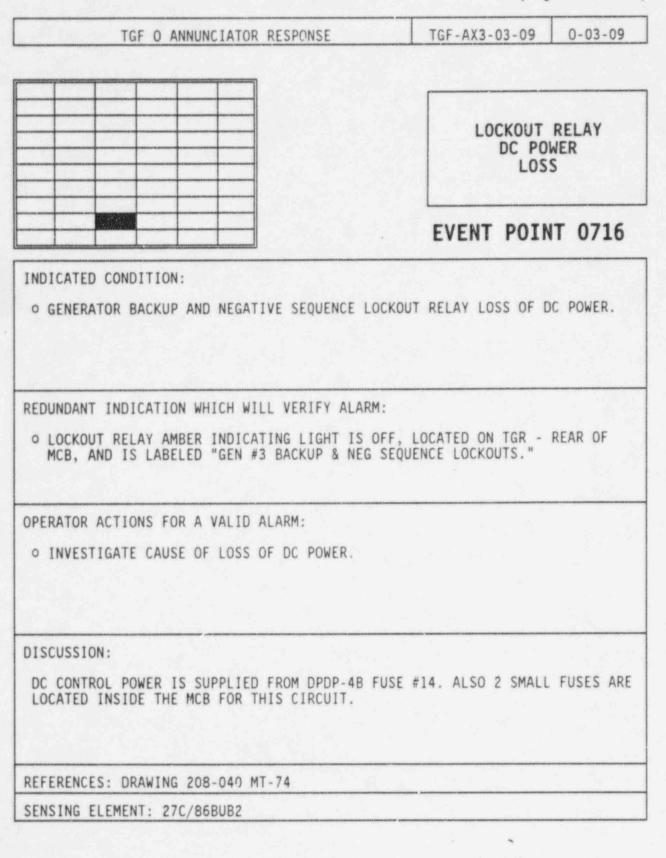
ENCLOSURE 1 (Page 36 of 105)



ENCLOSURE 1 (Page 37 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	T 0715
INDICATED CONDITION:		
• GENERATOR DIFFERENTIAL LOCKOUT RELAYS LO	SS OF DC POWER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	м.	
REDUNDANT INDICATION WHICH WILL VENTLY ALAN	· * •	
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O REAR OF MCB, AND IS LABELED "GEN #3 Δ LOO 	OFF, LOCATED ON TGR SE	ECTION,
• LOCKOUT RELAY AMBER INDICATING LIGHT IS	OFF, LOCATED ON TGR SE	ECTION,
○ LOCKOUT RELAY AMBER INDICATING LIGHT IS O REAR OF MCB, AND IS LABELED "GEN #3 ∆ LOO	OFF, LOCATED ON TGR SE	ECTION,
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O REAR OF MCB, AND IS LABELED "GEN #3 Δ LOO OPERATOR ACTIONS FOR A VALID ALARM: 	OFF, LOCATED ON TGR SE	ECTION,
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O REAR OF MCB, AND IS LABELED "GEN #3 Δ LOO OPERATOR ACTIONS FOR A VALID ALARM: 	OFF, LOCATED ON TGR SE	ECTION,
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O REAR OF MCB, AND IS LABELED "GEN #3 Δ LOO OPERATOR ACTIONS FOR A VALID ALARM: 	OFF, LOCATED ON TGR SE	ECTION,
 LOCKOUT RELAY AMBER 'NDICATING LIGHT IS OR REAR OF MCB, AND IS LABELED "GEN #3 Δ LOOP OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. 	OFF, LOCATED ON TGR SE CKOUTS."	
 LOCKOUT RELAY AMBER 'NDICATING LIGHT IS OR REAR OF MCB, AND IS LABELED "GEN #3 & LOG 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 TGR SE CKOUTS."	

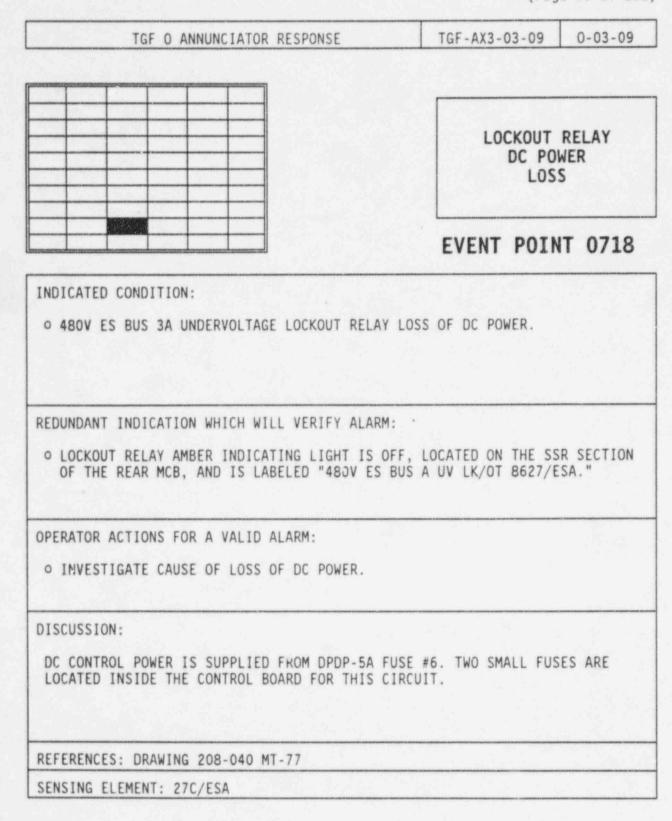
ENCLOSURE 1 (Page 38 of 105)



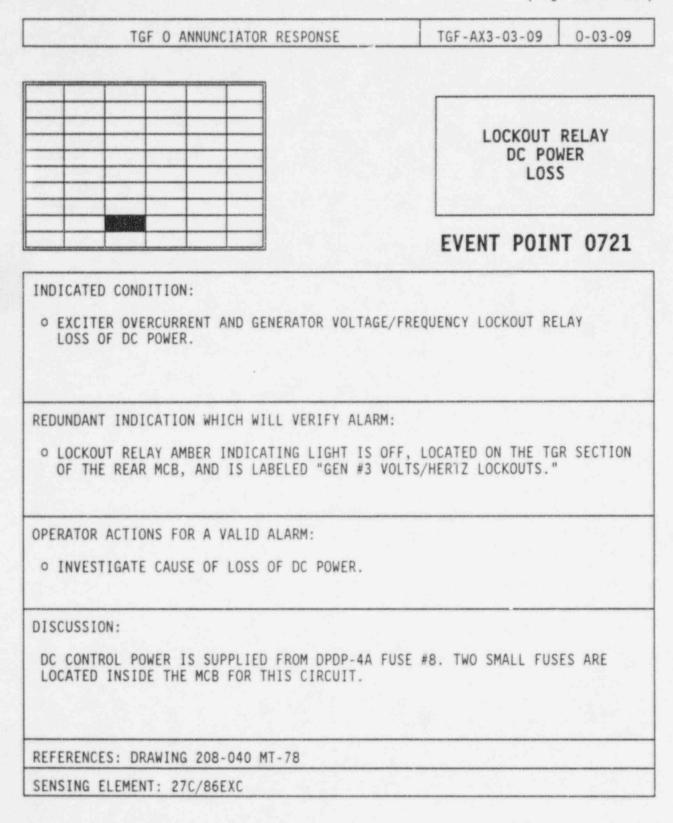
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	IT 0717
INDICATED CONDITION:		
• GENERATOR FIELD FAILURE LOCKOUT RELAY LOS	S OF DC POWER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O SECTION - REAR MCB, AND IS LABELED "GEN # 	FF, LOCATED ON THE TG 3 FIELD FAILURE LOCKO	R DUTS."
SECTION - REAR MCB, AND IS LABELED "GEN #	FF, LOCATED ON THE TG 3 FIELD FAILURE LOCKO	R DUTS."
SECTION - REAR MCB, AND IS LABELED "GEN #	FF, LOCATED ON THE TG 3 FIELD FAILURE LOCKO	GR DUTS."
SECTION - REAR MCB, AND IS LABELED "GEN # OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON THE TG 3 FIELD FAILURE LOCKO	GR DUTS."
SECTION - REAR MCB, AND IS LABELED "GEN # OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	3 FIELD FAILURE LOCKO	DUTS."
SECTION - REAR MCB, AND IS LABELED "GEN # OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER. DISCUSSION: DC CONTROL POWER IS SUPPLIED FROM DPDP-4A F	3 FIELD FAILURE LOCKO	DUTS."

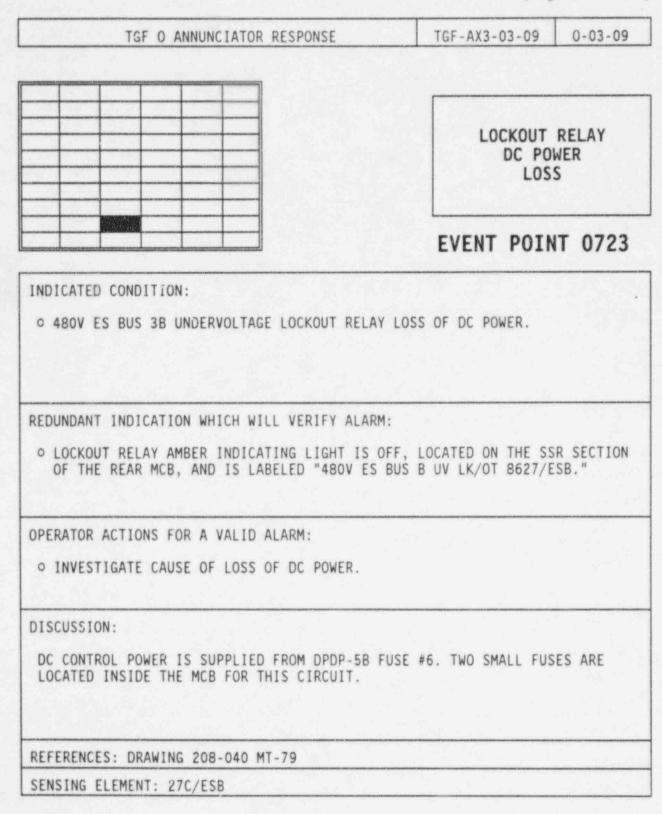
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ENCLOSURE 1 (Page 42 of 105)



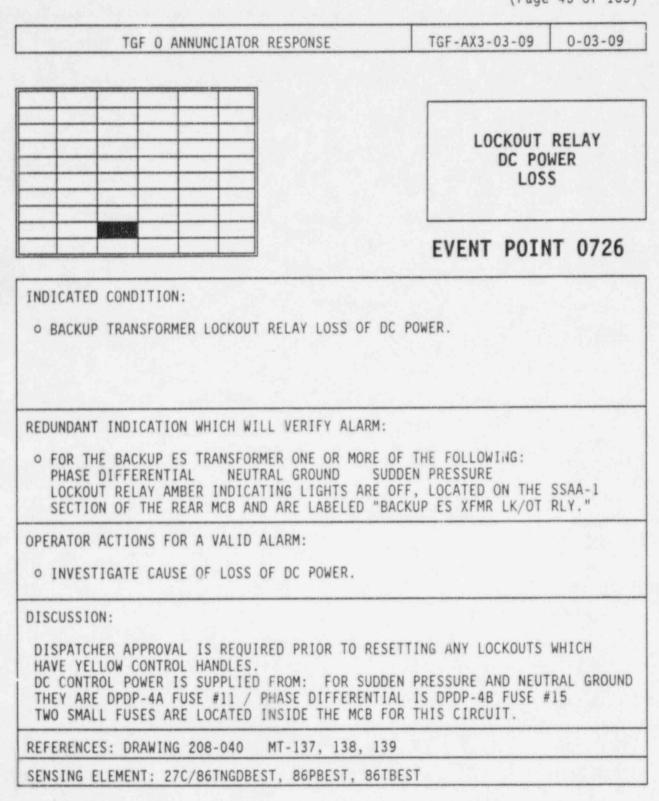
ENCLOSURE 1 (Page 43 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
The second se		
	LOCKOUT DC POI LOS	WER
	EVENT POIN	IT 0724
INDICATED CONDITION:		na an a
• STEP-UP TRANSFORMER SUDDEN PRESSURE LOCKO	OUT RELAY LOSS OF DC P	OWER.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "STEPUP) 	OFF, LOCATED ON THE SS (FMR 3 SUDDEN PRESS LO	R SECTION CKOUTS."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS O	OFF, LOCATED ON THE SS (FMR 3 SUDDEN PRESS LO	R SECTION CKOUTS."
OLOCKOUT RELAY AMBER INDICATING LIGHT IS ON OF THE REAR MCB, AND IS LABELED "STEPUP)	OFF, LOCATED ON THE SS (FMR 3 SUDDEN PRESS LO	R SECTION CKOUTS."
• LOCKOUT RELAY AMBER INDICATING LIGHT IS (OF THE REAR MCB, AND IS LABELED "STEPUP)	OFF, LOCATED ON THE SS (FMR 3 SUDDEN PRESS LO	R SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "STEPUP > OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. 	(FMR 3 SUDDEN PRESS LO	CKOUTS."
 LOCKOUT RELAY AMBER INDICATING LIGHT IS (OF THE REAR MCB, AND IS LABELED "STEPUP) OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. DISCUSSION: DC CONTROL POWER IS SUPPLIED FROM DPDP-4B F 	(FMR 3 SUDDEN PRESS LO	CKOUTS."

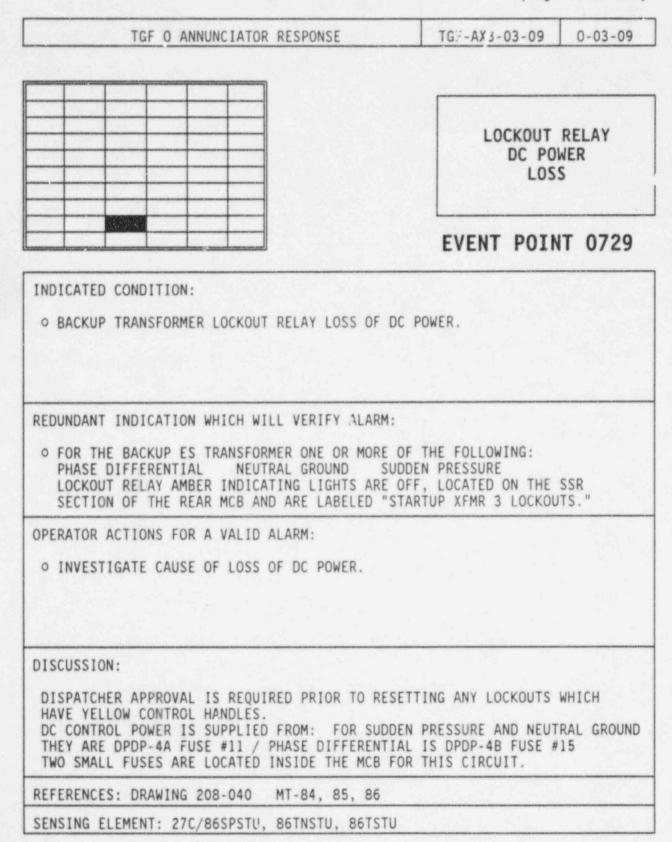
ENCLOSURE 1

	(Pag	e 44 of 1
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC POI LOS	WER
	EVENT POIN	T 0725
INDICATED CONDITION:		
A UNIT AUX TRANSFORMER LOCKOUT BELAV LOSS O	E DC DOUED	
O UNIT AUX TRANSFORMER LOCKOUT RELAY LOSS O	F DL POWER.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
REDUNDANT INDICATION WHICH WILL FERTIT ALANA		
O FOR THE UNIT AUX TRANSFORMER ONE OR MORE		
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		
SECTION OF THE REAK MUD, AND ARE LADELED	UNIT AUX AFAK 5.	
APPRATAR ANTIONO FOR A MALTE ALADM		
OPERATOR ACTIONS FOR A VALID ALARM:		
 INVESTIGATE CAUSE OF LOSS OF DC POWER. 		
an san an a		and a product of the second
DISCUSSION:		
DC CONTROL POWER IS SUPPLIED FROM THE FOLLO	WING: NEUTRAL GND DPD	P-4A FUSE
#11 / PHASE DIFFERENTIAL DPDP-4B FUSE #15 /		
	SUDULI PRESSURE UPUP	AN PUSE
#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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ENCLOSURE 1 (Page 46 of 105)



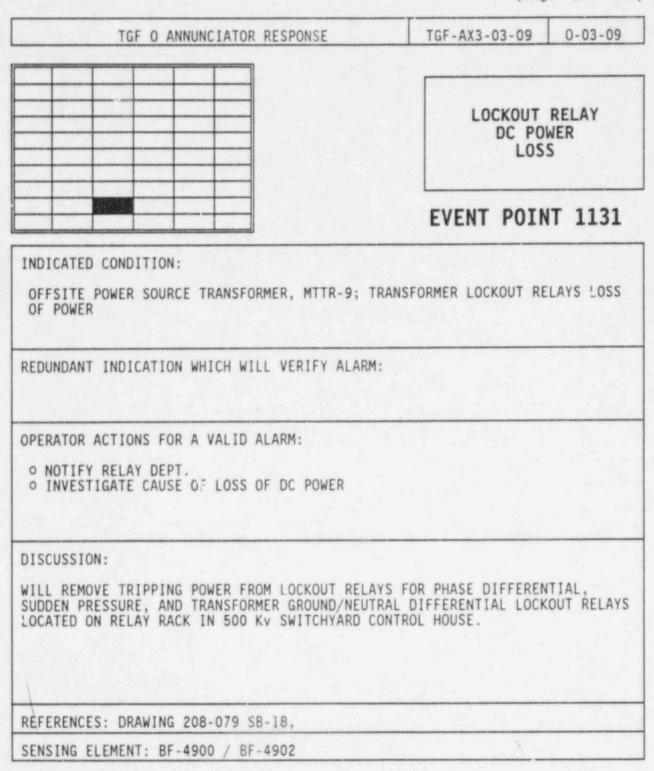
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AX3-03-09	0-03-09
LOCKOUT DC PO LOS	WER
ENT POIN	IT 0730
S OF DC POW	
NDICATING L ABELED "BAC	IGHTS ARE KUP ES

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-	-09	0-03-09
		OUT R C POW LOSS	
	EVENT P	POINT	r 0850
INDICATED CONDITION:			
• CUTOUT SWITCHES ARE OPEN, (LOSS OF DC PO	WER) FOR ONE OR MC	ORE OF	THE
FOLLOWING:			
UNIT TRIP PRIMARY OR ALTERNATE LO	CKOUT RELAY (86UT	PX, PY;	
86UTAX,AY)			
· 사망가 같은 것 같은 것이 있는 것 같이			
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB.	OCATED ON THE GENE	ERATOR	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	OCATED ON THE GENE	ERATOR	
• LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB.	OCATED ON THE GENE	ERATOR	
 LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. 	OCATED ON THE GENE	ERATOR	
• LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	OCATED ON THE GENE	ERATOR	
 LOCKOUT RELAY INDICATING LIGHT IS OFF, L FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. 	OCATED ON THE GENE	TRIP P	RIMARY
 LOCKOUT RELAY INDICATING LIGHT IS OFF, L 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 AND ALTERNATE TRIP RELAYS. TWO SMALL FUSE 	OCATED ON THE GENE FUSE #7 FOR UNIT 1 S ARE LOCATED INSI	TRIP P IDE TH	RIMARY E MCB FOR
 LOCKOUT RELAY INDICATING LIGHT IS OFF, L 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 AND ALTERNATE TRIP RELAYS. TWO SMALL FUSE THIS CIRCUIT. OPENING THESE CUTOUT SWITCHES DISABLES THE 	OCATED ON THE GENE FUSE #7 FOR UNIT 1 S ARE LOCATED INSI SUBSTATION TRIPS	TRIP P IDE TH	RIMARY E MCB FOF

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	contractive or property and the design of the second strength and the second s	
TGF O ANNUNCIATOR RESPON	SE TGF-AX3-03-09	0-03-09

LOCKOUT RELAY DC POWER LOSS

EVENT POINT 1175

INDICATES CONDITION:

O REACTOR TRIPPED LOCKOUT RELAY LOSS OF DC POWER.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

O LOCKOUT RELAY AMBER INDICATING LIGHT IS OFF, LOCATED ON THE SSR SECTION OF THE REAR MCB, AND IS LABELED "REACTOR TRIPPED LOCKOUT 86/REC."

OPERATOR ACTIONS FOR A VALID ALARM:

O INVESTIGATE CAUSE OF LOSS OF DC POWER.

DISCUSSION:

DC CONTROL POWER IS SUPPLIED FROM DPDP-4B FUSE #15. TWO SMALL FUSES ARE LOCATED INSIDE THE MCB FOR THIS CIRCUIT. LOSS OF DC POWER TO LOCKOUT RELAY "86/REC" WILL DISABLE AUTO TRIP OF MAIN TURBINE ON A REACTOR TRIP.

REFERENCES: DRAWING 208-040 MT-98

SENSING ELEMENT: 27C/REA

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC POI	WER
	LOS	\$
	EVENT POIN	T 1180
INDICATED CONDITION:		
• GENERATOR UNDERFREQUENCY LOCKOUT RELAY LO	SS OF DC POWER.	
	않아봐? 관계가 전통	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
		D. CECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB, AND IS LABELED "UNDERFRE 	EDUENCY LOCKOUTS."	K SECTION
OPERATOR ACTIONS FOR A VALID ALARM:		
• INVESTIGATE CAUSE OF LOSS OF DC POWER.		
DISCUSSION:		
DC CONTROL POWER IS SUPPLIED FROM DPDP-48 F LOCATED INSIDE THE MCB FOR THIS CIRCUIT.	USE #14. TWO SMALL FU	SES ARE
REFERENCES: DRAWING 208-040 MT-102		
REFERENCES: DRAWING 208-040 MT-102 SENSING ELEMENT: 27C/81G		

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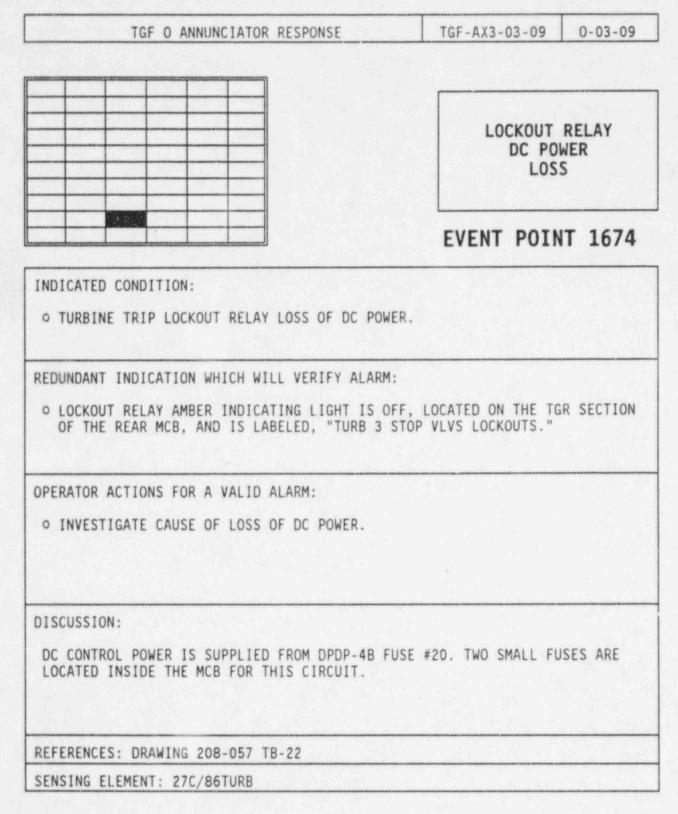
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-03-09	0-03-09
	LOCKOUT DC PO LOS	WER
	EVENT POIN	NT 1639
• EH LOW FLUID LEVEL LOCKOUT RELAY LOSS O	F DC POWER.	
• LOCKOUT RELAY AMBER INDICATING LIGHT IS	OFF, LOCATED ON THE TO	GR SECTION
REDUNDANT INDICATION WHICH WILL VERIFY ALA • LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF LOSS OF DC POWER.	OFF, LOCATED ON THE TO	GR SECTION
• LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH OPERATOR ACTIONS FOR A VALID ALARM:	OFF, LOCATED ON THE TO	GR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS OF THE REAR MCB, AND IS LABELED "LO EH OPERATOR ACTIONS FOR A VALID ALARM: INVESTIGATE CAUSE OF LOSS OF DC POWER. 	OFF, LOCATED ON THE TO FLUID LOCKOUT 86/LFT."	

REFERENCES: DRAWING 208-057 TB-16

SENSING ELEMENT: 27C/86LFT

ENCLOSURE 1

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	TGF-AX3-04-01	0-04-01
	TURB EX TEM HIG	P
	EVENT POIN	NT 1632
INDICATED CONDITION:		
O LP TURBINE #1 EXHAUST TEMPERATURE >175°F	AS SENSED BY TR-279-1	rs.
C LF TURDINE #1 EARAUST TEMPERATURE \$175 F	AS SCHOLD OF TO-275-1	
	internet with the second second second in the second on the second second second second second second second s	and the state of the
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
		<u> </u>
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • START HOOD SPRAYS.		
• START HOOD SPRAYS.		
• START HOOD SPRAYS. DISCUSSION:		
• START HOOD SPRAYS.	BINE EXHAUST TEMPERATI	JRE IS
 START HOOD SPRAYS. DISCUSSION: MAXIMUM ΔT BETWEEN CONDENSERS USING LP TURE 50° F. 	BINE EXHAUST TEMPERATI	JRE IS
DISCUSSION: MAXIMUM AT BETWEEN CONDENSERS USING LP TURE	BINE EXHAUST TEMPERATI	JRE 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• REDUNDANT INDICATION WHICH WILL VERIFY ALA	
OPERATOR ACTIONS FOR A VALID ALARM: • START HOOD SPRAYS.	
DISCUSSION: MAXIMUM ∆T BETWEEN CONDENSERS USING LP TU 50° F.	RBINE EXHAUST TEMPERATURE IS
REFERENCES: DRAWING 208-057 TB-15	
SENSING ELEMENT: TB-280-TS	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01 0-04-	01
	TURB EXH STM TEMP HIGH	
	EVENT POINT 16	34
NDICATED CONDITION:		
• LP TURBINE #1 EXHAUST TEMPERATURE >250 • F	AS SENSED BY TB-279-TS.	
REDUNDANT INDICATION WHICH WILL VERI Y ALAR	۹:	
PERATOR ACTIONS FOR A VALID ALARM:		
 PERATOR ACTIONS FOR A VALID ALARM: INCREASE CONDENSER VACUUM, REFER TO OP-60 	07	
		N
 INCREASE CONDENSER VACUUM, REFER TO OP-60 INCREASE TURBINE LOAD. IF TURBINE LOAD CANNOT BE INCREASED THEN 		N
 INCREASE CONDENSER VACUUM, REFER TO OP-60 INCREASE TURBINE LOAD. IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE. 	CONSIDERATION SHOULD BE GIVE MAL CONDENSER VACUUM ARE CAUS THE STEAM BY THE LOW PRESSURE	ED
 O INCREASE CONDENSER VACUUM, REFER TO OP-60 O INCREASE TURBINE LOAD. O 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 	CONSIDERATION SHOULD BE GIVE MAL CONDENSER VACUUM ARE CAUS THE STEAM BY THE LOW PRESSURE TEMPERATURES WILL DECREASE.	ED
 O INCREASE CONDENSER VACUUM, REFER TO OP-60 O INCREASE TURBINE LOAD. O IF TURBINE LOAD CANNOT BE INCREASED THEN TO TAKE THE TURBINE OFF LINE. DISCUSSION: HIGH TURBINE EXHAUST TEMPERATURES WITH NORI BY INSUFFICIENT ENERGY BEING REMOVED FROM TURBINES. BY INCREASING TURBINE LOAD THESE MAXIMUM ΔT BETWEEN CONDENSERS USING LP TURBINE	CONSIDERATION SHOULD BE GIVE MAL CONDENSER VACUUM ARE CAUS THE STEAM BY THE LOW PRESSURE TEMPERATURES WILL DECREASE.	ED

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-01	0-04-01
	TURB EX	H STM
	TEM	Ρ
	EVENT DOT	T 1625
	EVENT POIN	(1 1035
INDICATED CONDITION:		
 REDUNDANT INDICATION WHICH WILL VERIFY ALARM: 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 CO TO TAKE THE TURBINE OFF LINE. 		BE GIVEN
DISCUSSION:		
	I CONDENSED VACIUM	
HIGH TURBINE EXHAUST TEMPERATURES WITH NORMA BY INSUFFICIENT ENERGY BEING REMOVED FROM TH TURBINES. BY INCREASING TURBINE LOAD THESE T	E STEAM BY THE LOW F	PRESSURE
BY INSUFFICIENT ENERGY BEING REMOVED FROM TH	E STEAM BY THE LOW F EMPERATURES WILL DEC	PRESSURE CREASE.
BY INSUFFICIENT ENERGY BEING REMOVED FROM TH TURBINES. BY INCREASING TURBINE LOAD THESE T MAXIMUM AT BETWEEN CONDENSERS USING LP TURBI	E STEAM BY THE LOW F EMPERATURES WILL DEC	PRESSURE CREASE.

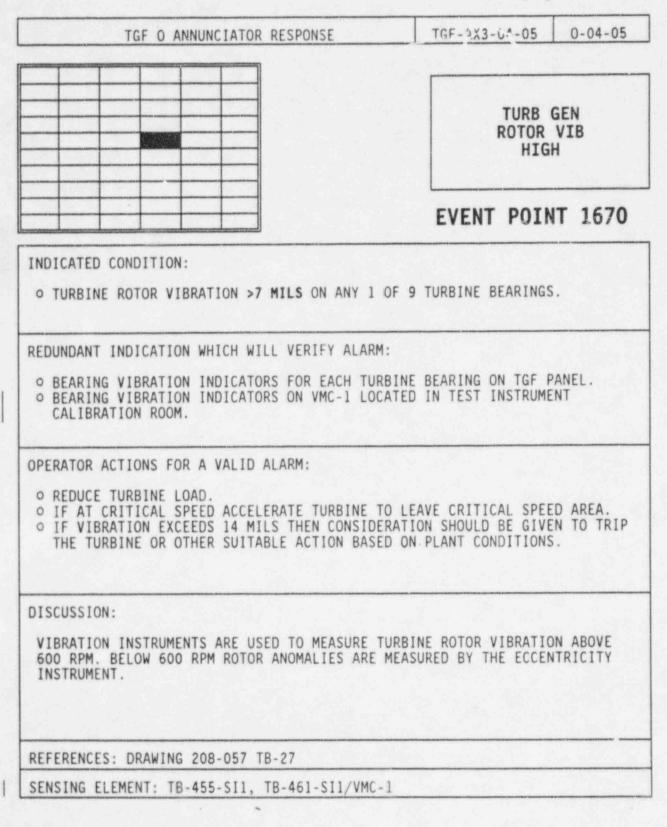
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TGF-AX3-04-02 0-04-02 TGF O ANNUNCIATOR RESPONSE TURBINE STEAM FLOW LOW **EVENT POINT 1638** INDICATED CONDITION: O AP BETWEEN HIGH PRESSURE TURBINE INLET AND OUTLET <21 PSID AS SENSED BY</p> MS-87-PS, WITH EITHER 1661 AND/OR 1662 OUTPUT BREAKERS CLOSED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O GENERATOR MEGAWATT INDICATION LOW WITH AT LEAST ONE OUTPUT BREAKER CLOSED OPERATOR ACTIONS FOR A VALID ALARM: INCREASE TURBINE LOAD. O IF TURBINE LOAD CANNOT BE INCREASED THEN CONSIDERATION SHOULD BE GIVEN TO TAKE THE TURBINE OFF LINE BY OPENING ANY CLOSED OUTPUT BREAKER(S). DISCUSSION: THIS EVENT POINT SIGNALS THE START OF A 60 SECOND TIME DELAY THAT IF THE CONDITION DOES NOT CLEAR IN THAT TIME THE TURBINE WILL BE TRIPPED. WHEN THE FIRST OUTPUT BREAKER IS CLOSED A TIMER IS ACTIVATED WITH A 60 SECOND TIME DELAY. IF TURBINE LOAD IS NOT INCREASED DURING THIS TIME THEN A TRIP SIGNAL IS SENT TO THE TURBINE. REFERENCES: DRAWING 208-057 TB-20 SENSING ELEMENT: MS-87-PS, 2MS-87-PS(TDE 60 SEC)

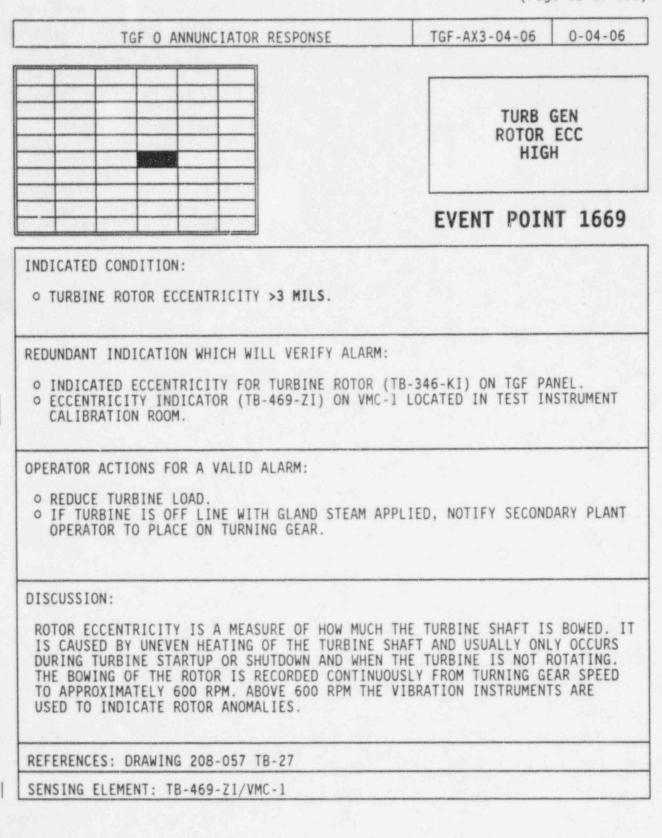
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-03	0-04-03
	TURBINE L BY VALVE	
	EVENT POIN	IT 1660
INDICATED CONDITION:		
• GOVERNOR VALVE POSITION IS EQUAL TO SELEC	TED VALVE DOSTTION LT	MIT
O GOVERNOR VALVE POSITION IS EQUAL TO SELEC	TED VALVE POSITION LI	
REDUNCANT INDICATION WHICH WILL VERIFY ALARM	1:	
· INDICATED VALVE POSITION LIMIT ON EHC PAN	FL	
• INDICATED VALVE POSITION ON THE PANEL.		
OPERATOR ACTIONS FOR A VALID ALARM:	and a second second second and a second s	
• REDUCE TURBINE LOAD.		
• IF UNIT NOT AT FULL POWER INCREASE VALVE	POSITION LIMIT.	
DISCUSSION:		
	CO THE FULL AUTO AND T	115
IF TURBINE IS VALVE POSITION LIMITED WITH GENERATOR OUTPUT FALLS BELOW THE ULD SETTIN PRESSURE ERROR WILL DEVELOP AND POSSIBLY RE 50 PSIG HEADER PRESSURE ERROR WITH THE TURE	NG, A SIGNIFICANT HEAD ESULT IN ICS SHIFT TO	ER TRACK AT
GENERATOR OUTPUT FALLS BELOW THE ULD SETTIN PRESSURE ERROR WILL DEVELOP AND POSSIBLY RE	NG, A SIGNIFICANT HEAD ESULT IN ICS SHIFT TO	TRACK AT

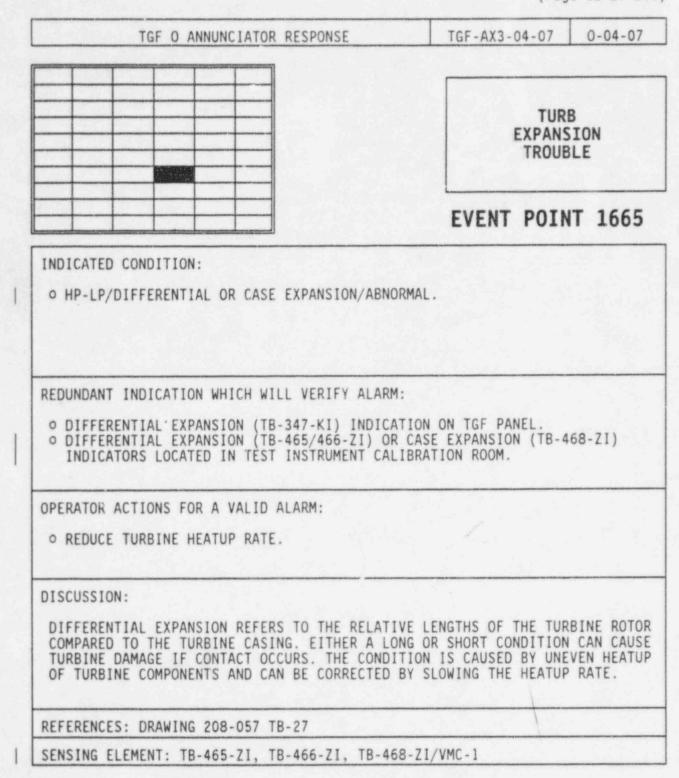
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ENCLOSURE 1 (Page 62 of 105)



ENCLOSURE 1 (Page 63 of 105) 0-04-08 TGF O ANNUNCIATOR RESPONSE TGF-AX3-04-08 TURB ROTOR POSITION TROUBLE **EVENT POINT 1663** INDICATED CONDITION: O LP ROTOR THRUST POSITION A OR B/ABNORMAL. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: ROTOR POSITION RECORDER (TB-119-ZIR) INDICATION ON TGF PANEL. O DUAL THRUST INDICATOR (TB-467-ZI) ON VMC-1 LOCATED IN TEST INSTRUMENT CALIBRATION ROOM. OPERATOR ACTIONS FOR A VALID ALARM: O REDUCE TURBINE GENERATUR LOAD AND INVESTIGATE CAUSE OF THRUST BEARING NOT CONTROLLING ROTOR POSITION. • IF TURBINE IS TRIPPED BY THE THRUST BEARING TRIP DEVICE THEN INSPECT THRUST BEARING COMPONENTS. DISCUSSION: THE ROTOR POSITION INSTRUMENT MEASURES THE RELATIVE POSITION OF THE ROTOR THRUST COLLAR TO THE THRUST BEARING SUPPORT. SMALL CHANGES IN ROTOR POSITION CAN OCCUR WITH CHANGING ELECTRICAL LOAD. ANY WEAR ON THE THRUST SHOES RESULTS IN A MOVEMENT OF THE ROTOR AND IS RECORDED ON TB-119-ZIR. REFERENCES: DRAWING 208-057 TB-27 SENSING ELEMENT: TB-467-ZI/VMC-1

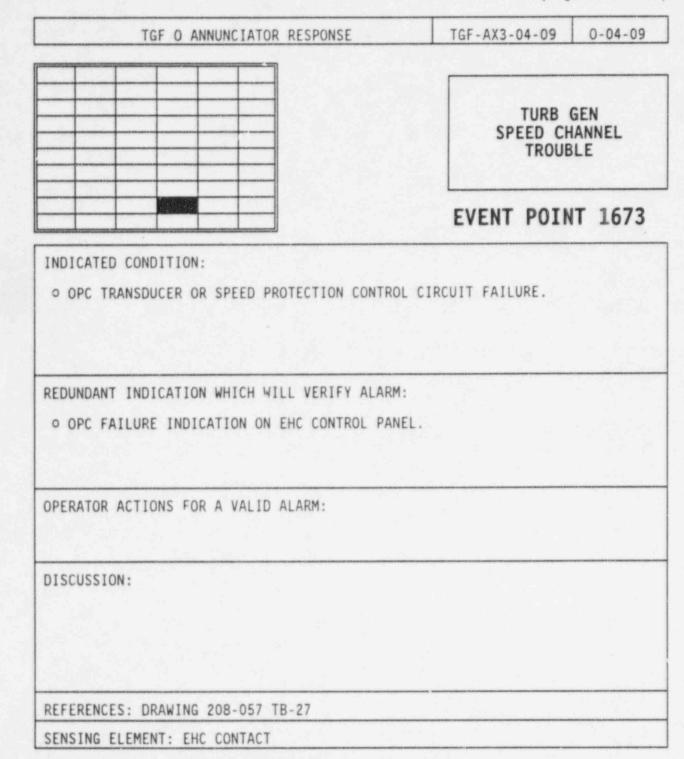
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-09	0-04-09
	TURB	GEN
	SPEED CH TROUB	
	EVENT POIN	T 1661
INDICATED CONDITION: • SPEED CHANNEL FAILURE.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • SPEED CHANNEL MONITOR IS BACKLIGHTED ON TH • TURBINE IN MANUAL OR TURBINE SPEED INDICATOR FAILED TO ZERO RPH	HE EHC CONTROL PANEL.	
OPERATOR ACTIONS FOR A VALID ALARM:		
• STABILIZE THE PLANT IF THE TURBINE HAS SH MANUAL	IFTED OUT OF ICS CONT	ROL INTO
DISCUSSION:		
IF MAIN SPEED TRANSDUCER FAILED TURBINE WI IF AUX SPEED TRANSDUCER FAILED TURBINE SPE ZERO (0)	LL TRANSFER TO MANUAL ED INDICATOR WILL FAI	CONTROL, L TO
A SPEED CHANNEL ERROR WILL ALSO DISABLE THE ELECTRICAL BACKUP HEADER PRESSURE CONTROL WITH THE TURBINE IN USING GV OR TV OPEN OR CLOSE P/B'S IN ADDI HEADER PRESSURE IF HEADER PRESSURE ERROR IN ALSO IN MANUAL, OR ICS DEMAND DECREASES TO	N MANUAL IS VIA OPERA TION THE TBV'S WILL C S 50 PSIG, REACTOR BA	TOR ACTION
REFERENCES: DRAWING 208-057 TB-27, WESTINGHO	USE #81-2, VOL III	

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-09	0-04-09
	TURB SPEED CH TROUE	IANNEL
	EVENT POIN	IT 1662
INDICATED CONDITION: • SPEED REFERENCE CHANNEL FAILURE.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • SPEED REFERENCE MONITOR IS BACKLIGHTED ON • TURBINE IN MANUAL		Έ.
OPERATOR ACTIONS FOR A VALID ALARM: • STABILIZE THE PLANT IF THE TURBINE HAS SH MANUAL	HIFTED OUT OF ICS CONT	ROL INTO
DISCUSSION: THE EHC CONTROLLER WILL REVERT TO THE MANU OF ANY ONE OF THE FOLLOWING CHANNELS: MAIN LOAD REFERENCE. HEADER PRESSURE CONTROL WITH THE TURBINE IN USING GV OR TV OPEN OR CLOSE P/B'S IN ADDI HEADER PRESSURE IF HEADER PRESSURE ERROR IN ALSO IN MANUAL, OR ICS DEMAND DECREASES TO	N SPEED, SPEED REFEREN IN MANUAL IS VIA OPERA ITION THE TBV'S WILL O IS 50 PSIG, REACTOR BA	ATOR ACTION
REFERENCES: DRAWING 208-057 TB-27, WESTINGHO	DUSE BOOK #81-2, VOL 1	111

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-04-1	10 0-04-10
		TURB RO SPEED
	EVENT PO	DINT 1623
INDICATED CONDITION:		
O TURBINE GENERATOR SHAFT HAS STOPPED ROLLI	NG.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	6	
• TURBINE SHAFT SPEED INDICATION ON EHC CON		
• TURBINE SHAFT SPEED INDICATION ON EHC CON		
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOIO.		
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM:	ITROL PANEL.	
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT	ITROL PANEL.	GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE	ITROL PANEL. IS TURNING. TURBINE ON TURNING	g gear
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. • OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOID. OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE	ITROL PANEL. IS TURNING. TURBINE ON TURNING	g gear
 TURBINE SHAFT SPEED INDICATION ON EHC CON OCOMPUTER POINT TOIC. OPERATOR ACTIONS FOR A VALID ALARM: ENSURE TURNING GEAR IS ENGAGED AND SHAFT NOTIFY SECONDARY PLANT OPERATOR TO PLACE MANUALLY IF AUTO FUNCTION DOES NOT OPERAT 	ITROL PANEL. IS TURNING. TURBINE ON TURNING	g gear
 TURBINE SHAFT SPEED INDICATION ON EHC CON OCOMPUTER POINT TOIC. OPERATOR ACTIONS FOR A VALID ALARM: ENSURE TURNING GEAR IS ENGAGED AND SHAFT NOTIFY SECONDARY PLANT OPERATOR TO PLACE MANUALLY IF AUTO FUNCTION DOES NOT OPERAT 	ITROL PANEL. IS TURNING. TURBINE ON TURNING	g gear
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOIO. OPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE MANUALLY IF AUTO FUNCTION DOES NOT OPERAT	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR
• TURBINE SHAFT SPEED INDICATION ON EHC CON • COMPUTER POINT TOIO. DPERATOR ACTIONS FOR A VALID ALARM: • ENSURE TURNING GEAR IS ENGAGED AND SHAFT • NOTIFY SECONDARY PLANT OPERATOR TO PLACE MANUALLY IF AUTO FUNCTION DOES NOT OPERAT	ITROL PANEL. IS TURNING. TURBINE ON TURNING	G GEAR

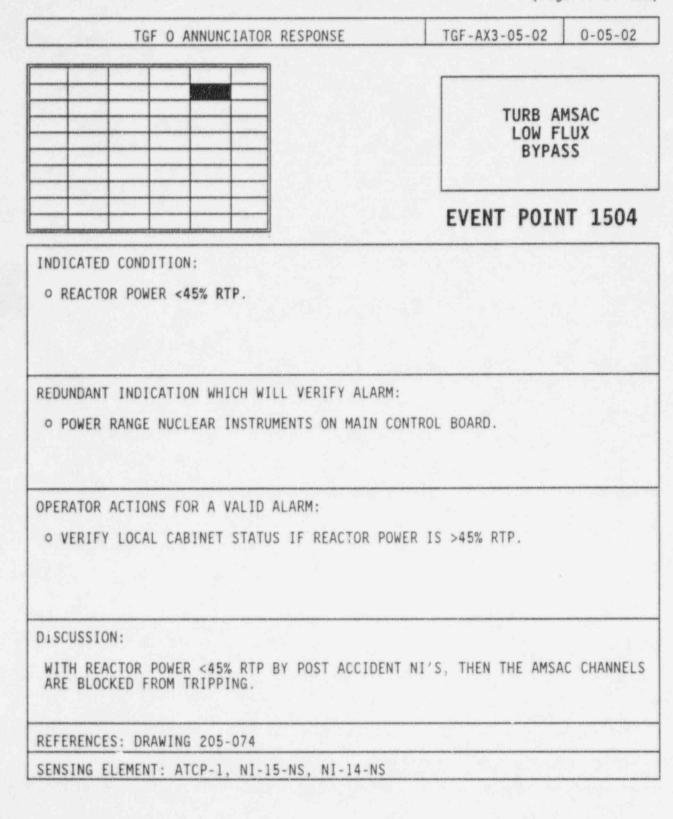
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	TGF-AX3-05-01	0-05-01
	TURB A CHANN TRI	NEL
	EVENT POIN	NT 2041
INDICATED CONDITION: • REACTOR POWER >45% RTP AND FEEDWATER FLOW CHANNEL "A". REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	AMSAC
 POWER RANGE NUCLEAR INSTRUMENTS ON MAIN CONFEEDWATER FLOW (MAIN AND START-UP) INDICA 	CONTROL BOARD. ATION ON MAIN CONTROL	BOARD.
• FEEDWATER FLOW (MAIN AND START-UP) INDICA	CONTROL BOARD. ATION ON MAIN CONTROL	BOARD.
 FEEDWATER FLOW (MAIN AND START-UP) INDICA OPERATOR ACTIONS FOR A VALID ALARM: REFER TO AP-660. 	DENT NI'S, AND FEED FI	
 FEEDWATER FLOW (MAIN AND START-UP) INDICA OPERATOR ACTIONS FOR A VALID ALARM: REFER TO AP-660. REFER TO EOP. DISCUSSION: AMSAC SENSES REACTOR POWER USING POST ACCID 	DENT NI'S, AND FEED FI	

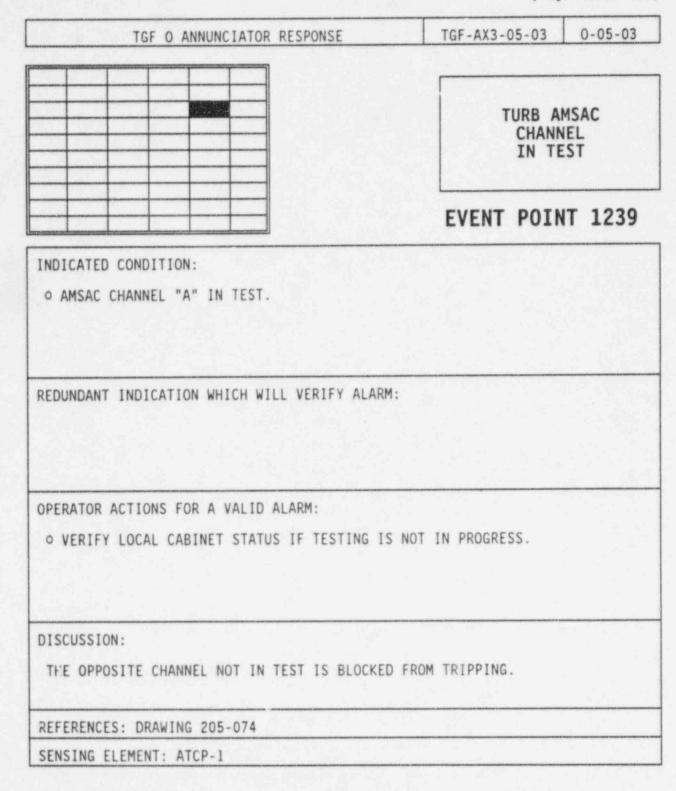
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	TGF-AX3-05-01	0-05-01
	TURB A CHANN TRI	NEL
	EVENT POIN	NT 2042
NDICATED CONDITION: • REACTOR POWER >45% RTP AND FEEDWATER FLOW CHANNEL "B".	V <17% RATED FLOW ON A	AMSAC
CHANNEL D.		
© POWER RANGE NUCLEAR INSTRUMENTS ON MAIN C © FEEDWATER FLOW (MAIN AND START-UP) INDICA	CONTROL BOARD.	BOARD.
 POWER RANGE NUCLEAR INSTRUMENTS ON MAIN OF FEEDWATER FLOW (MAIN AND START-UP) INDICA 	CONTROL BOARD.	BOARD.
 POWER RANGE NUCLEAR INSTRUMENTS ON MAIN OFEEDWATER FLOW (MAIN AND START-UP) INDICA 	CONTROL BOARD.	BOARD.
 POWER RANGE NUCLEAR INSTRUMENTS ON MAIN (• FEEDWATER FLOW (MAIN AND START-UP) INDICA OPERATOR ACTIONS FOR A VALID ALARM: REFER TO AP-660. REFER TO EOP. 	CONTROL BOARD. ATION ON MAIN CONTROL	
• FEEDWATER FLOW (MAIN AND START-UP) INDICA OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO AP-660. • REFER TO EOP. DISCUSSION: AMSAC SENSES REACTOR POWER USING POST ACCIE	CONTROL BOARD. ATION ON MAIN CONTROL	

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ENCLOSURE 1 (Page 72 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-03	0-05-03
	TURB A CHANN IN TE	IEL
	EVENT POIN	IT 1243
INDICATED CONDITION: • AMSAC CHANNEL "B" IN TEST. REDUNDANT INDICATION WHICH WILL.VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM: • VERIFY LOCAL CABINET STATUS IF TESTING IS		
DISCUSSION: THE OPPOSITE CHANNEL NOT IN TEST IS BLOCKED REFERENCES: DRAWING 205-074	FROM TRIPPING.	

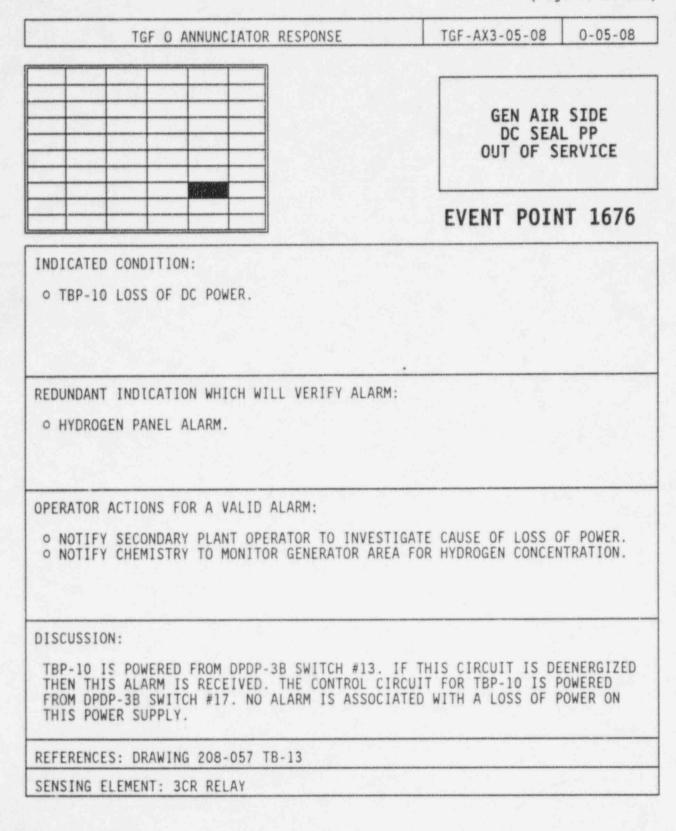
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-05	0-05-05
	TURB RADIO HIG	FREQ
	EVENT POIN	T 2005
INDICATED CONDITION:		
• MAIN GENERATOR RADIO FREQUENCIES ARE HIG	H AS SENSED BY RF MONI	TORING.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	М:	
OPERATOR ACTIONS FOR A VALID ALARM:		
 OPERATOR ACTIONS FOR A VALID ALARM: NOTIFY TURBINE BUILDING OPERATOR TO INVE NOTIFY SYSTEM ENGINEER TO COMPARE WITH O O REFER TO OP-701. 	STIGATE RF MONITORING THER KNOWN DATA.	CABINET.
 NOTIFY TURBINE BUILDING OPERATOR TO INVE NOTIFY SYSTEM ENGINEER TO COMPARE WITH O REFER TO OP-701. 	STIGATE RF MONITORING THER KNOWN DATA.	CABINET.
 NOTIFY TURBINE BUILDING OPERATOR TO INVE NOTIFY SYSTEM ENGINEER TO COMPARE WITH O REFER TO OP-701. 	THER KNOWN DATA.	H AS
• NOTIFY TURBINE BUILDING OPERATOR TO INVE • NOTIFY SYSTEM ENGINEER TO COMPARE WITH 0 • REFER TO OP-701. DISCUSSION: THIS ALARM SERVES AS AN EARLY WARNING OF A INSULATION BREAKDOWN AND/OR GAS SPACE IMPU	THER KNOWN DATA. GENERATOR FAILURE SUC RITIES THAT MAY HAVE E FOR EACH PHASE AND ON LY. THE SYSTEM CYCLES	H AS NTERED THE IE FOR THE THROUGH
 NOTIFY TURBINE BUILDING OPERATOR TO INVE NOTIFY SYSTEM ENGINEER TO COMPARE WITH O REFER TO OP-701. DISCUSSION: THIS ALARM SERVES AS AN EARLY WARNING OF A INSULATION BREAKDOWN AND/OR GAS SPACE IMPU GAS SPACES. THE SYSTEM CONSISTS OF FOUR DETECTORS (ONE #8 BEARING) WHICH ARE MONITORED INDIVIDUAL	THER KNOWN DATA. GENERATOR FAILURE SUC RITIES THAT MAY HAVE E FOR EACH PHASE AND ON LY. THE SYSTEM CYCLES ARM VALUE THE ALARM IS ING IF A VALID CONDITI	H AS NTERED THE E FOR THE THROUGH SOUNDED.
 NOTIFY SYSTEM ENGINEER TO COMPARE WITH O REFER TO OP-701. DISCUSSION: THIS ALARM SERVES AS AN EARLY WARNING OF A INSULATION BREAKDOWN AND/OR GAS SPACE IMPU GAS SPACES. THE SYSTEM CONSISTS OF FOUR DETECTORS (ONE #8 BEARING) WHICH ARE MONITORED INDIVIDUAL ALL FOUR POINTS, AND IF ONE EXCEEDS THE AL THE SYSTEM ENGINEER CAN ASSIST IN DETERMIN 	THER KNOWN DATA. GENERATOR FAILURE SUC RITIES THAT MAY HAVE E FOR EACH PHASE AND ON LY. THE SYSTEM CYCLES ARM VALUE THE ALARM IS ING IF A VALID CONDITI	H AS NTERED THE E FOR THE THROUGH SOUNDED.

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-0	05-06	0-05-06
		TURB GE NDITION HIGH	
	EVENT	POINT	1956
INDICATED CONDITION:			
REDUNDANT INDICATION WHICH WILL VERIFY ALAR			
• HIGH ALARM ON TB-448-AIR TGR SECTION, REA	AR MCB. ION, REAR MCB.		
 HIGH ALARM ON TB-448-AIR TGR SECTION, READ OPERATOR ACTIONS FOR A VALID ALARM: VERIFY CONDITION ON TB-448-AIR, TGR SECTION REFER TO OP-701. 	AR MCB. ION, REAR MCB.		
 HIGH ALARM ON TB-448-AIR TGR SECTION, READ OPERATOR ACTIONS FOR A VALID ALARM: VERIFY CONDITION ON TB-448-AIR, TGR SECTION 4.14 OF TAKE A BACKUP SAMPLE PER SECTION 4.14 OF 	AR MCB. ION, REAR MCB. PT-325. R FAILURE SUCH /		
 HIGH ALARM ON TB-448-AIR TGR SECTION, READ OPERATOR ACTIONS FOR A VALID ALARM: VERIFY CONDITION ON TB-448-AIR, TGR SECTION 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 	AR MCB. ION, REAR MCB. PT-325. R FAILURE SUCH /		

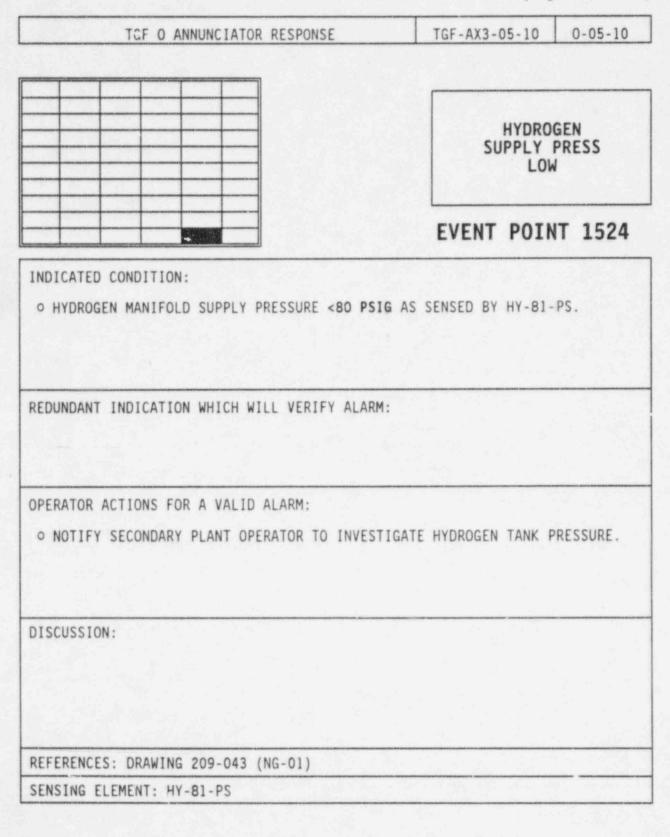
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-05-09	0-05-09
	PAI	OGEN NEL JBLE
	EVEN POI	NT 1644
• AT LEAST 1 OF 13 DROP TARGETS HAS FALLEN		RM PANEL.
OPERATOR ACTIONS FOR A VALID ALARM:	m.	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • REFER TO AR-921. DISCUSSION:	TIGATE HYDROGEN ALAR	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • REFER TO AR-921.	TIGATE HYDROGEN ALAR	
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • REFER TO AR-921. DISCUSSION: THE FOLLOWING CONDITIONS ARE ALARMED AT TH H, PURITY H, PRESSURE H, SUPPLY	TIGATE HYDROGEN ALAR E HYDROGEN ALARM PAN H ₂ TEMPERATURE HIGH IL TURBINE DEF	EL: H, SIDE LEVEL LOW DAMING TANK
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVES • REFER TO AR-921. DISCUSSION: 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	TIGATE HYDROGEN ALAR E HYDROGEN ALARM PAN H ₂ TEMPERATURE HIGH IL TURBINE DEF RESS LOW L	EL: H, SIDE LEVEL LOW DAMING TANK EVEL HIGH

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ENCLOSURE 1 (Page 78 of 105)

	TGF-AX3-06-01	0-06-01
	GENER TR:	
	EVENT POI	NT 0683
INDICATED CONDITION:		
• GENERATOR NEUTRAL GROUND LOCKOUT RELAY TR	RIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	۹.	
 TURBINE TRIPPED INDICATION ON EHC PANEL. LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. 	OFF, LOCATED ON THE T	GR SECTION
OPERATOR ACTIONS FOR A VALID ALARM:		
O REFER TO EOP.		
• REFER TO EOP. • REFER TO AP-660.		
○ REFER TO AP-660.		
○ REFER TO AP-660.		
○ REFER TO AP-660.		
○ REFER TO AP-660.		

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	TGF-AX3-06-01	0-06-01
	GENER	ATOR
	TRI	Ρ
	EVENT POIN	VT 0684
INDICATED CONDITION:		
• TURBINE TRIPPED INDICATION ON EHC PANEL.		
 OF THE REAR MCB. OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: 	OFF, LOCATED ON THE SS	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. 	OFF, LOCATED ON THE S	SR SECTION
 OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. REFER TO AP-660. 	OFF, LOCATED ON THE S	SR SECTION
 OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. REFER TO AP-660. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. REFER TO AP-660. 	OFF, LOCATED ON THE S	SR SECTION
 LOCKOUT RELAY AMBER INDICATING LIGHT IS O OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: REFER TO EOP. REFER TO AP-660. 	OFF, LOCATED ON THE S	SR SECTION

ENCLOSURE 1 (Page 80 of 105)

	TGF-AX3-06-01	0-06-01
	GENERA	
	EVENT POIN	T 0685
INDICATED CONDITION: • GENERATOR DIFFERENTIAL LOCKOUT RELAY TRIPF REDUNDANT INDICATION WHICH WILL VERIFY ALARM:		
 TURBINE TRIPPED INDICATION ON EHC PANEL. LOCKOUT RELAY AMBER INDICATING LIGHT IS OF OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: 	FF, LOCATED ON THE TG	R SECTION
 REFER TO EOP. REFER TO AP-660. 		
DISCUSSION:		

ENCLOSURE 1 (Page 81 of 105)

	TGF-AX3-06-01	0-06-01
	GENER	
	TRI	P
	EVENT POIN	NT 0686
INDICATED CONDITION:		
	CHOUT DELAY TRIDDED	
• GENERATOR BACKUP AND NEGATIVE SEQUENCE LO	CKOUT RELAY TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
• TURBINE TRIPPED INDICATION ON EHC PANEL.		
U TURBINE TRIPPED INDICATION ON ENC PANEL.		
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O	FF. LOCATED ON THE TO	GR SECTION
O LOCKOUT RELAY AMBER INDICATING LIGHT IS CONTACT AND A STATEMENT OF A STATEME	OFF, LOCATED ON THE TO	GR SECTION
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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-01	0-06-01
	GENER/ TRI	
	EVENT POIN	NT 0690
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O TURBINE TRIPPED INDICATION ON EHC PANEL. O LOCKOUT RELAY AMBER INDICATING LIGHT IS O		
OF THE REAR MCB.		SR SECTION
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OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660.		SR SECTION

ENCLOSURE 1 (Page 84 of 105)

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ENCLOSURE 1 (Page 85 of 105)

TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-	-01	0-06-01
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	EVENT P	POINT	0825
INDICATED CONDITION:			
© 500 KV SUBSTATION PRIMARY TRIP LOCKOUT RE	LAY TRIPPED.		
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REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:		
and the second support at the same			
• TURBINE TRIPPED INDICATION ON EHC PANEL.	FE LOCATED ON TH	HE GENE	RATOR
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 LOCKOUT RELAY AMBER INDICATING LIGHT IS O FEED AUX ASMBLY SECTION OF THE REAR MCB. 	FF, LOCATED ON TH	HE GENE	RATOR
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM:	FF, LOCATED ON TH	HE GENE	RATOR
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	TGF-AX3-06-01	0-06-01
	GENER/ TRI	
	EVENT POIN	NT 0826
INDICATED CONDITION:		
• 500 KV SUBSTATION ALTERNATE TRIP LOCKOUT	RELAY TRIPPED.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	:	
• TURBINE TRIPPED INDICATION ON EHC PANEL.		
C LOCKOUT OFLAV ANDED INDICATING LICHT 10 0	EE LOCATED ON THE GI	CHIER A TOD
O LOCKOUT RELAY AMBER INDICATING LIGHT IS O EFED AUX ASMBLY SECTION OF THE REAR MCB.	rr, LUCAILD ON THE OL	ENERATOR
FEED AUX ASMBLY SECTION OF THE REAR MCB.	FF, LOCATED ON THE G	ENERATOR
FEED AUX ASMBLY SECTION OF THE REAR MCB.		ENERATOR
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OPERATOR ACTIONS FOR A VALID ALARM:		ENERATOR
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FEED AUX ASMBLY SECTION OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660.		ENERATOR

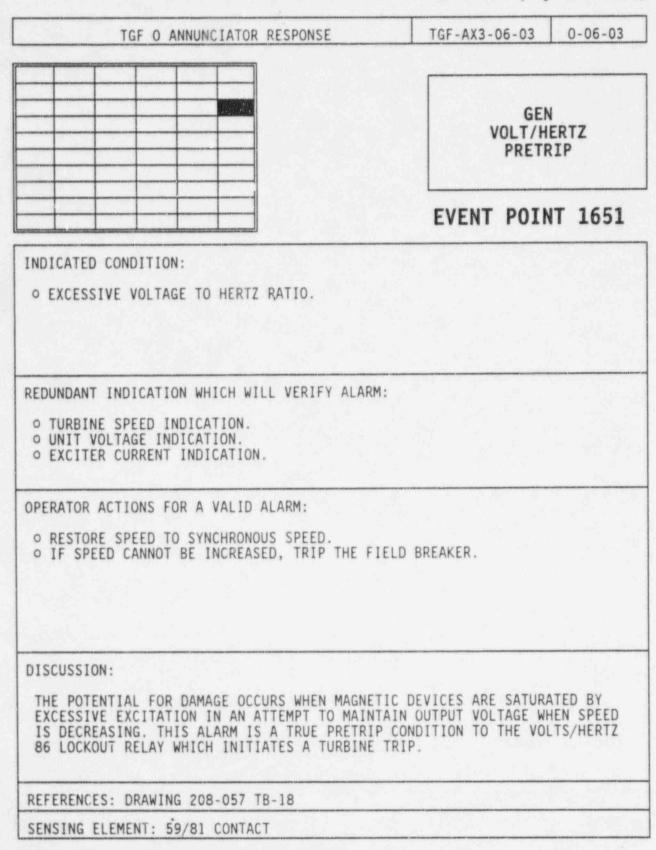
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INDICATED CONDITION: • REACTOR TRIPPED LOCKOUT RELAY TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIPPED INDICATION ON EHC PANEL. • LOCKOUT RELAY AMBER INDICATING LIGHT IS OFF, LOCATED ON THE SSR SECTION • OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	INDICATED CONDITION: • REACTOR TRIPPED LOCKOUT RELAY TRIPPED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIPPED INDICATION ON EHC PANEL. • LOCKOUT RELAY AMBER INDICATING LIGHT IS OFF, LOCATED ON THE SSR SECT • OF THE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • REFER TO EOP. • REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98			"	KIP
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• REFER TO EOP. • REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	• REFER TO EOP. • REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY	AMBER INDICATING LIGHT IS (SSR SECTION
• REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	• REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY	AMBER INDICATING LIGHT IS (SSR SECTION
• REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	• REFER TO AP-660. DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	OF THE REAR MC	AMBER INDICATING LIGHT IS (B.		SSR SECTION
DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	DISCUSSION: REFERENCES: DRAWING 208-040 MT-98	OF THE REAR MC	AMBER INDICATING LIGHT IS (B.		SSR SECTION
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REFERENCES: DRAWING 208-040 MT-98	REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP.	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
REFERENCES: DRAWING 208-040 MT-98	REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP.	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
REFERENCES: DRAWING 208-040 MT-98	REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP.	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
REFERENCES: DRAWING 208-040 MT-98	REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP.	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
REFERENCES: DRAWING 208-040 MT-98	REFERENCES: DRAWING 208-040 MT-98	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP.	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
		LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM:		SSR SECTION
	SENSING FLEMENT 86REC	LOCKOUT RELAY OF THE REAR MC ERATOR ACTIONS REFER TO EOP. REFER TO AP-66	AMBER INDICATING LIGHT IS (B. FOR A VALID ALARM: 50.		SSR SECTION

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	-02	0-06-02
BRE	XCITE REAKE TRIP	
т ро	OINT	1648
		Maria and Andrews

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-04	0-06-04
	GENER/ UNDER FRI	
	EVENT POIN	NT 1199
○ GENERATOR FREQUENCY <58.5 HERTZ AS SENSED		
 GENERATOR FREQUENCY INDICATION ON MAIN CO O GENERATOR FREQUENCY INDICATION ON MAIN CO O UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. 	ONTROL BOARD.	OF THE
 UNDERFREQUENCY TIMER F2 OPERATING, LOCATI 	ONTROL BOARD.	OF THE
 GENERATOR FREQUENCY INDICATION ON MAIN CO UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. 	ONTROL BOARD.	OF THE
 GENERATOR FREQUENCY INDICATION ON MAIN CO UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: NOTIFY SYSTEM DISPATCHER. 	E DISABLED. ANY SYSTEM	4 FREQUENC
 GENERATOR FREQUENCY INDICATION ON MAIN CO UNDERFREQUENCY TIMER F2 OPERATING, LOCATE REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: NOTIFY SYSTEM DISPATCHER. DISCUSSION: UNIT #3'S FREQUENCY CORRECTION CIRCUITS ARI PROBLEMS SHOULD BE DIRECTED TO THE SYSTEM DI 	E DISABLED. ANY SYSTEM	4 FREQUENC

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	TGF-AX3-06-04	0-06-04
	GENER/ UNDER FRI	
	EVENT POIN	NT 1200
 O GENERATOR FREQUENCY <59.5 HERTZ AS SENSED REDUNDANT INDICATION WHICH WILL VERIFY ALARM O GENERATOR FREQUENCY INDICATION ON MAIN CO O UNDERFREQUENCY TIMER F1 OPERATING, LOCATE 	1: DNTROL BOARD.	
REAR MCB.		OF THE
REAR MCB.		OF THE
REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SYSTEM DISPATCHER.		OF THE
REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SYSTEM DISPATCHER.	E DISABLED. ANY SYSTEM DISPATCHER FOR CORRECT	A FREQUENCY
REAR MCB. OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SYSTEM DISPATCHER. DISCUSSION: UNIT #3'S FREQUENCY CORRECTION CIRCUITS ARI PROBLEMS SHOULD BE DIRECTED TO THE SYSTEM D	E DISABLED. ANY SYSTEM DISPATCHER FOR CORRECT	A FREQUENC

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		GENERAT ER FREQ	
	EVENT	POINT	1999
• GENERATOR FREQUENCY <58 HERTZ FOR >12 SECON UNDERFREQUENCY CIRCUIT #T3. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • TURBINE TRIP	NDS AS SENSED	BY	
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 U REMAIN POWERED FROM THE AUXILIARY TRANSFORMEN DISTURBANCE BY OPENING THE UNITS OUTPUT BREAM RUNBACK TO THE ICS MINIMUM LOAD SETTING. HOW CONTACT NOW ENERGIZES 86/UTPX WHEN THE 12 SEC TURBINE TRIP RESULTS. (SEE DRAWINGS 208-079 S	R AFTER A SYS KERS AND ALLO EVER, A 500 K COND TIMER EL	TEM FREQU WING THE V SUBSTAT	JENCY UNIT TO TION

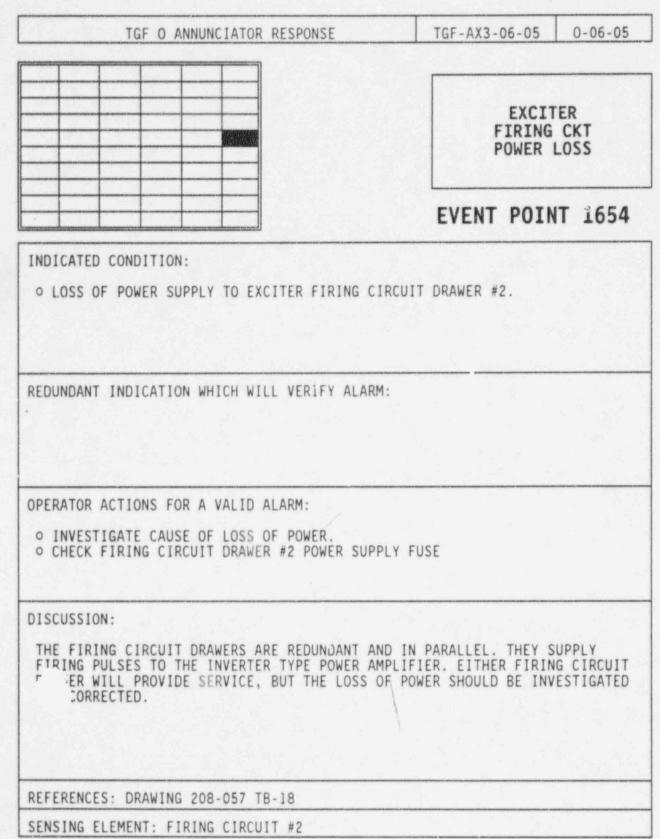
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	TGF-AX3-06-05	0-06-05
	<u></u>	
	EXCI FIRING POWER	CKT
	EVENT POIL	NT 1653
○ LOSS OF POWER SUPPLY TO EXCITER FIRING CI		
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID'ALARM: • INVESTIGATE CAUSE OF LOSS OF POWER. • CHECK FIRING CIRCUIT DRAWER #1 POWER SUPP	LY FUSE	
	LY FUSE	
 INVESTIGATE CAUSE OF LOSS OF POWER. CHECK FIRING CIRCUIT DRAWER #1 POWER SUPP 	D IN PARALLEL. THEY	NG CIRCUIT
• INVESTIGATE CAUSE OF LOSS OF POWER. • CHECK FIRING CIRCUIT DRAWER #1 POWER SUPP DISCUSSION: THE FIRING CIRCUIT DRAWERS ARE REDUNDANT AN FIRING PULSES TO THE INVERTER TYPE POWER AM DRAWER WILL PROVIDE SERVICE, BUT THE LOSS O	D IN PARALLEL. THEY	NG CIRCUIT

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-06	0-06-06
	EXCI	
	EVENT POIL	
INDICATED CONDITION: • EXCITER CIRCUIT GROUND DETECTED		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE CAUSE OF EXCITER GROUND. • NOTIFY SYSTEM ENGINEERING.		
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 AN	ALL VALUES
REFERENCES: DRAWING 208-057 TB-18		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-0	06-07	0-06-07
		EXCITE LIMITE PRETRI	D
	EVENT	POINT	1650
INDICATED CONDITION:			
• EXCITER EXCITATION IS HIGHER THAN A PRESE	T VALUE.		
			1.0
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1.		
THE ALLER AND A REAL AND A	**		
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO			
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO			
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO	DL BOARD.	AGE INDI	CATION.
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM:	DL BOARD.	AGE INDI	CATION.
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM:	DL BOARD.	TAGE INDI	CATION.
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM:	DL BOARD.	AGE INDI	CATION.
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE EXCITER EXCITATION TO NORMAL VALUE	DL BOARD. S BASED ON VOLT	ICHRONOUS	FIELD
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE EXCITER EXCITATION TO NORMAL VALUE DISCUSSION: OVEREXCITATION RESULTS IN EXCESSIVE TEMPERA WINDINGS. THIS ALARM, CALLED AN "EXCITATION	DL BOARD. S BASED ON VOLT	ICHRONOUS	FIELD
• EXCITER VOLTAGE INDICATION ON MAIN CONTRO OPERATOR ACTIONS FOR A VALID ALARM: • REDUCE EXCITER EXCITATION TO NORMAL VALUE DISCUSSION: OVEREXCITATION RESULTS IN EXCESSIVE TEMPERA WINDINGS. THIS ALARM, CALLED AN "EXCITATION	DL BOARD. S BASED ON VOLT	ICHRONOUS	FIELD

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-08	0-06-08
	EXCIT RAIS INHIE	SE.
	EVENT POIN	IT 1522
INDICATED CONDITION:		
WITH UNIT OUTPUT BREAKERS OPEN AND THE FOLL	.OWING:	
• GENERATOR EXCITER HAS REACHED AN EXCITATI	ON LIMIT IMPOSED.	
• GENERATOR EXCITER HAS REACHED A CURRENT L	IMIT IMPOSED	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
 GENERATOR OUTPUT VOLTAGE WILL NOT INCREAS OR VOLTAGE ADJUST KNOBS ARE INCREASED. 	SE WHEN EITHER THE BAS	E ADJUST
OPERATOR ACTIONS FOR A VALID ALARM:		
 REDUCE EXCITER EXCITATION TO NORMAL VALUE IF EXCITATION APPEARS NORMAL BUT THE ALAR ENGINEERING TO EVALUATE THE PROBLEM. 		
DISCUSSION:		
OVEREXCITATION RESULTS IN EXCESSIVE TEMPERA WINDINGS. THIS ALARM MAY ANNUNCIATE TEMPORA STARTUP AND OTHER TIMES WITH THE MAIN GENER	ARILY DURING RELAY OPE	RATION FOR
REFERENCES: DRAWING 208-057 TB-18		
SENSING ELEMENT: EXCITER SWITCHGEAR DX3 CONT		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-09	0-06-09
	GEN R POT X FAIL	FMR
	EVENT POI	NT 0688
• GENERATOR POTENTIAL TRANSFORMER FAILED.	:	
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE LOSS OF GENERATOR POTENTIAL T	RANSFORMER.	
○ INVESTIGATE LOSS OF GENERATOR POTENTIAL T	WILL HAVE UNPREDICT ACKUP RELAY (ie. MAY FOR A VALID CONDITI NCTION FOR THE MAIN	CAUSE IT ON).
DISCUSSION: LOSS OF THE GENERATOR POTENTIAL TRANSFORMER EFFECTS ON THE OPERATION OF THE GENERATOR B TO ACTUATE INADVERTENTLY OR FAIL TO OPERATE THE GENERATOR BACKUP RELAY PROVIDES TRIP FU	WILL HAVE UNPREDICT ACKUP RELAY (ie. MAY FOR A VALID CONDITI NCTION FOR THE MAIN	CAUSE IT ON).

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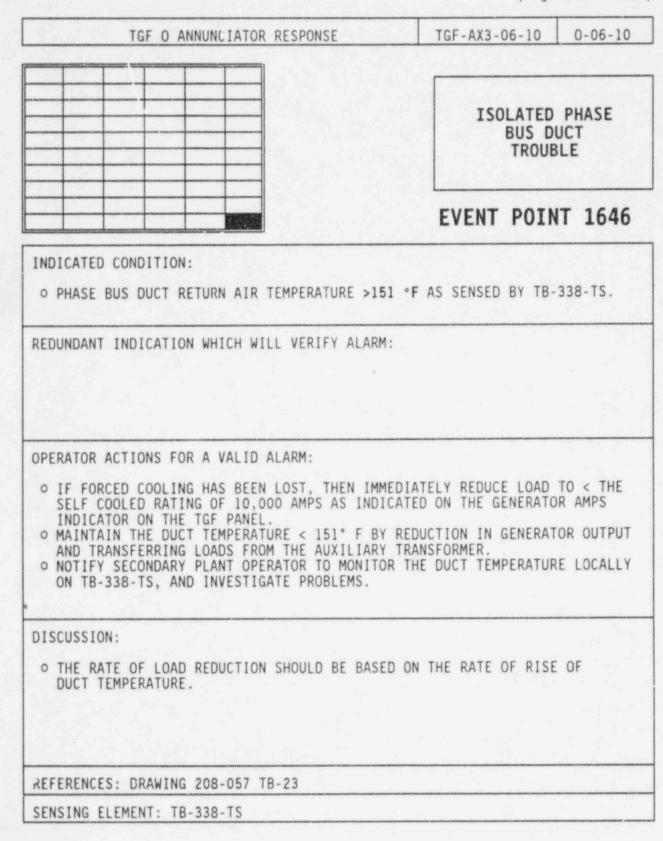
TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-09	0-06-09
	GEN R	
	POT X	FMR
	FAILURE	
	EVENT POIN	NT 0689
INDICATED CONDITION:		
• EXCITER POTENTIAL TRANSFORMER FAILED.		
- EAGTER FOTERTIAL TRANSFORMER TATEED.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
OPERATOR ACTIONS FOR A VALID ALARM:		
OPERATOR ACTIONS FOR A VALID ALARM: • INVESTIGATE LOSS OF EXCITER POTENTIAL TRA	INSFORMER.	
	INSFORMER.	
	INSFORMER.	
	INSFORMER.	
• INVESTIGATE LOSS OF EXCITER POTENTIAL TRA		F
• INVESTIGATE LOSS OF EXCITER POTENTIAL TRA	VILL HAVE UNPREDICTABL	ie. MAY
• INVESTIGATE LOSS OF EXCITER POTENTIAL TRA DISCUSSION: LCSS OF THE EXCITER POTENTIAL TRANSFORMER W EFFECTS ON THE OPERATION OF THE GENERATOR F CAUSE IT TO ACTUATE INADVERTENTLY OR FAIL T CONDITION). THE GENERATOR BACKUP RELAY PROVIDES TRIP FU	VILL HAVE UNPREDICTABL TIELD FAILURE RELAY (TO OPERATE FOR A VALIE UNCTION FOR THE MAIN O	ie. MAY)
• INVESTIGATE LOSS OF EXCITER POTENTIAL TRA DISCUSSION: LCSS OF THE EXCITER POTENTIAL TRANSFORMER W EFFECTS ON THE OPERATION OF THE GENERATOR F CAUSE IT TO ACTUATE INADVERTENTLY OR FAIL T CONDITION).	VILL HAVE UNPREDICTABL TIELD FAILURE RELAY (TO OPERATE FOR A VALIE UNCTION FOR THE MAIN O	ie. MAY)
• INVESTIGATE LOSS OF EXCITER POTENTIAL TRA DISCUSSION: LCSS OF THE EXCITER POTENTIAL TRANSFORMER W EFFECTS ON THE OPERATION OF THE GENERATOR F CAUSE IT TO ACTUATE INADVERTENTLY OR FAIL T CONDITION). THE GENERATOR BACKUP RELAY PROVIDES TRIP FU	VILL HAVE UNPREDICTABL TIELD FAILURE RELAY (TO OPERATE FOR A VALIE UNCTION FOR THE MAIN O	ie. MAY)



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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10	0-06-10
	BUS	D PHASE DUCT JBLE
	EVENT POI	NT 1645
REDUNDANT INDICATION WHICH WILL VERIFY ALAF • ISOLATED PHASE BUS DUCT FLOW LOW EVENT P BUS DUCT TEMPERATURE HIGH EVENT POINT 16	OINT 1647 OR, ISOLATI	ED PHASE
○ ISOLATED PHASE BUS DUCT FLOW LOW EVENT P	M: OINT 1647 OR, ISOLAT 46. DLED RATING OF 10,000 NDICATOR ON THE TGF I EDUCTION IN GENERATO XILIARY TRANSFORMER.	AMPS PANEL . R
 ISOLATED PHASE BUS DUCT FLOW LOW EVENT P BUS DUCT TEMPERATURE HIGH EVENT POINT 16 OPERATOR ACTIONS FOR A VALID ALARM: IMMEDIATELY REDUCE LOAD TO < THE SELF COO AS INDICATED ON THE GENERATOR AMPS DIAL 1 MAINTAIN THE DUCT TEMPERATURE < 151° BY F OUTPUT AND TRANSFERRING LOADS FROM THE AU NOTIFY SECONDARY PLANT OPERATOR TO MONITOR 	M: DINT 1647 OR, ISOLATH 46. DLED RATING OF 10,000 NDICATOR ON THE TGF H EDUCTION IN GENERATON IXILIARY TRANSFORMER. IR THE DUCT TEMPERATUR	AMPS PANEL. R RE LOCALLY

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10	0-06-10
	ISOLATED BUS D TROUE	UCT
	EVENT POIN	T 1647
INDICATED CONDITION: • PHASE BUS DUCT AIR FLOW AS SENSED BY TB-3	38-FS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • PHASE BUS DUCT BLOWER FAN NOT RUNNING WIT GENERATOR FIELD BREAKER CLOSED EVENT POIN	H SWITCH IN AUTO ANL	THE
 OPERATOR ACTIONS FOR A VALID ALARM: IF FORCED COOLING HAS BEEN LOST, THEN IMM SELF COOLED RATING OF 10,000 AMPS AS INDI DIAL INDICATOR ON THE TGF PANEL. MAINTAIN THE DUCT TEMPERATURE < 151° F BY AND TRANSFERRING LOADS FROM THE AUXILIARY NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM. 	CATED ON THE GENERATO REDUCTION IN GENERAT TRANSFORMER.	R AMPS OR OUTPUT
DISCUSSION:		
 THE RATE OF LOAD REDUCTION SHOULD BE BASE DUCT TEMPERATURE. 	D 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	GF-AX3-06-10	0-06-10
ana		
	TSOLATE	PHACE
	ISOLATED PHAS BUS DUCT TROUBLE	
	EVENT POI	NT 1652
INDICATED CONDITION:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM		
		BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.		BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST		BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.		BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.		BUS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM.		BUS DUCT

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-06-10	0-06-10
	ISOLATED BUS D TROU	UCT
	EVENT POI	NT 1655
GENERATOR FIELD BREAKER CLOSED. REDUNDANT INDICATION WHICH WILL VERIFY ALARM • ISOLATED PHASE BUS DUCT AIR FLOW LOW EVEN ISOLATED PHASE BUS DUCT TEMPERATURE HIGH	T POINT 1647 OR,	
OPERATOR ACTIONS FOR A VALID ALARM: O IMMEDIATELY REDUCE LOAD TO < THE SELF COO AS INDICATED ON THE GENERATOR AMPS DIAL I O MAINTAIN THE DUCT TEMPERATURE <151° F BY OUTPUT AND TRANSFERRING LOADS FROM THE AU O NOTIFY SECONDARY PLANT OPERATOR TO MONITO LOCALLY ON TB-338-TS, AND INVESTIGATE PRO	INDICATOR ON THE TGF REDUCTION IN GENERAT JXILIARY TRANSFORMER. OR THE DUCT TEMPERATU	PANEL. OR
DISCUSSION: • THE RATE OF LOAD REDUCTION SHOULD BE BASE	ED ON THE RATE OF RIS	E OF
DUCT TEMPERATURE.		
DUCT TEMPERATURE. REFERENCES: DRAWING 208-057 TB-23		

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TGF O ANNUNCIATOR RESPONSE	TGF-AX3-C	06-10	0-06-10
		ISOLATED PH BUS DUCT TROUBLE	
	EVENT	POINT	1675
NDICATED CONDITION: • PHASE BUS DUCT AIR FILTER DIFFERENTIAL PR TB-340-PS.	RESSURE >1" H ₂ 0	AS SENSEI	D BY
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:		
	IGATE ISOLATED	PHASE BU	IS DUCT
REDUNDANT INDICATION WHICH WILL VERIFY ALARM OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM AIR FILTER, AND REPLACE AS DISCUSSION:	IGATE ISOLATED	PHASE BU	IS DUCT
OPERATOR ACTIONS FOR A VALID ALARM: • NOTIFY SECONDARY PLANT OPERATOR TO INVEST COOLING SYSTEM AIR FILTER, AND REPLACE AS	IGATE ISOLATED	PHASE BU	IS DUCT