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JOSEPH A. WIDAY  
VICE PRESIDENT & PLANT MANAGER  
GINNA STATION

March 15, 2001

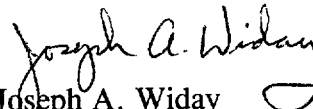
U.S. Nuclear Regulatory Commission  
Document Control Desk  
Attn: Guy S. Vissing  
Project Directorate I  
Washington, D.C. 20555

Subject: Emergency Operating Procedures  
R.E. Ginna Nuclear Power Plant  
Docket No. 50-244

Dear Mr. Vissing:

As requested, enclosed are Ginna Station Emergency Operating Procedures.

Very truly yours,

  
Joseph A. Widay

JAW/jdw

xc: U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Ginna USNRC Senior Resident Inspector

Enclosure(s):

AP Index  
AP-ELEC.14/16

A002

REPORT NO. 01  
REPORT: NPSP0200  
DOC TYPE: PRAP

GINNA NUCLEAR POWER PLANT  
PROCEDURES INDEX  
ABNORMAL PROCEDURE

03/15/01 PAGE: 1

PARAMETERS: DOC TYPES - PRAP

STATUS: EF QU 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
AP-CCW.1	LEAKAGE INTO THE COMPONENT COOLING LOOP	014	01/09/01	05/01/98	05/01/03	EF
AP-CCW.2	LOSS OF CCW DURING POWER OPERATION	014	05/18/00	08/17/99	08/17/04	EF
AP-CCW.3	LOSS OF CCW - PLANT SHUTDOWN	012	05/18/00	08/17/99	08/17/04	EF
AP-CR.1	CONTROL ROOM INACCESSIBILITY	016	01/11/00	01/11/00	01/11/05	EF
AP-CVCS.1	CVCS LEAK	012	05/01/98	05/01/98	05/01/03	EF
AP-CVCS.3	LOSS OF ALL CHARGING FLOW	002	02/11/00	02/26/99	02/26/04	EF
AP-CW.1	LOSS OF A CIRC WATER PUMP	010	07/16/98	05/01/98	05/01/03	EF
AP-ELEC.1	LOSS OF 12A AND/OR 12B BUSES	020	09/08/00	05/01/98	05/01/03	EF
AP-ELEC.2	SAFEGUARD BUSES LOW VOLTAGE OR SYSTEM LOW FREQUENCY	009	03/22/99	03/22/99	03/22/04	EF
AP-ELEC.3	LOSS OF 12A AND/OR 12B TRANSFORMER (BELOW 350 F)	008	09/08/00	05/01/98	05/01/03	EF
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	003	03/15/01	06/09/97	06/09/02	EF
AP-ELEC.17/18	LOSS OF SAFEGUARDS BUS 17/18	002	10/18/99	06/09/97	06/09/02	EF
AP-FW.1	PARTIAL OR COMPLETE LOSS OF MAIN FEEDWATER	012	02/11/00	02/27/98	02/27/03	EF
AP-IA.1	LOSS OF INSTRUMENT AIR	017	12/02/99	05/01/98	05/01/03	EF
AP-PRZR.1	ABNORMAL PRESSURIZER PRESSURE	011	12/02/99	12/02/99	12/02/04	EF
AP-RCC.1	CONTINUOUS CONTROL ROD WITHDRAWAL/INSERTION	006	02/24/96	05/14/98	05/14/03	EF
AP-RCC.2	RCC/RPI MALFUNCTION	008	11/16/98	02/06/97	02/06/02	EF
AP-RCC.3	DROPPED ROD RECOVERY	004	11/16/98	02/27/98	02/27/03	EF
AP-RCP.1	RCP SEAL MALFUNCTION	013	06/09/00	05/01/98	05/01/03	EF
AP-RCS.1	REACTOR COOLANT LEAK	015	09/08/00	05/01/98	05/01/03	EF
AP-RCS.2	LOSS OF REACTOR COOLANT FLOW	010	12/14/98	05/01/98	05/01/03	EF
AP-RCS.3	HIGH REACTOR COOLANT ACTIVITY	007	08/05/97	08/05/97	08/05/02	EF
AP-RCS.4	SHUTDOWN LOCA	011	12/02/99	05/01/98	05/01/03	EF
AP-RHR.1	LOSS OF RHR	015	02/08/01	05/01/98	05/01/03	EF

REPORT NO. 01  
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GINNA NUCLEAR POWER PLANT  
PROCEDURES INDEX  
ABNORMAL PROCEDURE

03/15/01 PAGE: 2

PARAMETERS: DOC TYPES - PRAP

STATUS: EF QU 5 YEARS ONLY:

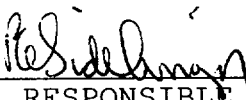
PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
AP-RHR.2	LOSS OF RHR WHILE OPERATING AT RCS REDUCED INVENTORY CONDITIONS	009	10/13/00	03/31/00	03/31/05	EF
AP-SG.1	STEAM GENERATOR TUBE LEAK	000	09/08/00	09/08/00	09/08/05	EF
AP-SW.1	SERVICE WATER LEAK	015	10/18/99	06/03/98	06/03/03	EF
AP-TURB.1	TURBINE TRIP WITHOUT RX TRIP REQUIRED	010	02/12/99	10/10/97	10/10/02	EF
AP-TURB.2	TURBINE LOAD REJECTION	017	02/11/00	05/13/98	05/13/03	EF
AP-TURB.3	TURBINE VIBRATION	010	02/11/00	02/10/98	02/10/03	EF
AP-TURB.4	LOSS OF CONDENSER VACUUM	014	05/01/98	05/01/98	05/01/03	EF
AP-TURB.5	RAPID LOAD REDUCTION	005	06/09/00	06/09/00	06/09/05	EF
TOTAL FOR PRAP	32					

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 1 of 17
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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

  
\_\_\_\_\_  
RESPONSIBLE MANAGER

3-15-2001  
EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: \_\_\_\_\_

EOP:	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 2 of 17

A. PURPOSE - This procedure provides actions to respond to a loss of AC Emergency Bus 14 or Bus 16.

B. ENTRY CONDITIONS/SYMPTOMS

2. SYMPTOMS - The symptoms of a LOSS OF SAFEGUARDS BUS 14/16 are;

- a. Annunciator J-7, 480V MAIN OR TIE BREAKER TRIP, lit, or
- b. Annunciator J-29, 480V TRANSFORMER BREAKER TRIP, lit.

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

\* \* \* \* \*

CAUTION

- o IF A LOSS OF BUS 12A OR 12B HAS OCCURRED, THEN AP-ELEC.1, LOSS OF 12A AND/OR 12B BUSES, SHOULD BE PERFORMED.
- o IF A TURBINE RUNBACK HAS OCCURRED, THEN AP-TURB.2, TURBINE LOAD REJECTION, SHOULD BE PERFORMED.
- o OBSERVE D/G LOADING LIMITS OF 2300 KW FOR 1/2 HOUR, 2250 KW FOR 2 HOURS, AND 1950 KW FOR CONTINUOUS SERVICE.
- o DO NOT ATTEMPT TO ENERGIZE A BUS THAT IS POTENTIALLY FAULTED.

\* \* \* \* \*

NOTE: Conditions should be evaluated for site contingency reporting (Refer to EPIP-1.0, GINNA STATION EVENT EVALUATION AND CLASSIFICATION).

## 1 Establish Manual Rod Control

- a. Place Rod Control Bank Selector Switch to MANUAL
- b. Verify control rod motion stops
- b. Manually trip the reactor and go to E-0, REACTOR TRIP OR SAFETY INJECTION.
- c. Manually move control rods as necessary

## 2 Verify Emergency D/G Associated With Affected Bus - RUNNING AND LOADED

Attempt to start and load emergency D/G(s) manually. (Refer to ER-D/G.1, RESTORING D/Gs)

- o Bus 14 - D/G A
- o Bus 16 - D/G B

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 4 of 17
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
3	<p>Verify At Least One Train of AC Emergency Busses Energized to at Least 420 Volts:</p> <ul style="list-style-type: none"> <li>o Bus 14 and Bus 18</li> <li>-OR-</li> <li>o Bus 16 and Bus 17</li> </ul>	Go to ECA-0.0, LOSS OF ALL AC POWER step 1.
<p style="text-align: center;">*****</p> <p style="text-align: center;"><u>CAUTION</u></p> <p>IF CCW FLOW TO A RCP IS INTERRUPTED FOR GREATER THAN 2 MINUTES OR IF EITHER RCP MOTOR BEARING TEMPERATURE EXCEEDS 200°F, THEN TRIP THE AFFECTED RCP.</p> <p style="text-align: center;">*****</p>		
4	Verify CCW Pump Status	
	<p>a. At least one CCW Pump - RUNNING</p> <p>b. Annunciator A-22, CCW PUMP DISCHARGE LO PRESS 60 PSIG - EXTINGUISHED</p>	<p>a. Start one CCW pump (124 KW)</p> <p>1) <u>IF</u> neither CCW pump can be started, <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> <li>a) Trip the reactor.</li> <li>b) Trip <u>BOTH</u> RCP's.</li> <li>c) Go to E-0, REACTOR TRIP OR SAFETY INJECTION.</li> </ul> <p>b. Start second CCW pump (124 KW).</p>

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 5 of 17
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5	Verify Charging Pump Status- AT LEAST ONE RUNNING	Secure letdown flowpaths <ul style="list-style-type: none"> <li>o Close loop B cold leg to REGEN Hx, AOV-427.</li> <li>o Ensure closed loop A cold leg to EXCESS LETDOWN Hx, AOV-310.</li> <li>o Ensure closed EXCESS LETDOWN HCV-123.</li> </ul>
6	Monitor S/G Level Control: <ul style="list-style-type: none"> <li>o S/G level - TRENDING TO 52%</li> <li>o MFW regulating valves - CONTROLLING IN AUTO</li> </ul>	Place MFW regulating valves in MANUAL and control feed flow as necessary.



EOP:	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 6 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7	Verify Bus 14 - ENERGIZED TO AT LEAST 420 VOLTS	<p>Perform the following:</p> <ul style="list-style-type: none"> <li>a. Close loop B cold leg to REGEN Hx, AOV-427.</li> <li>b. <u>IF</u> steam dump is armed, <u>THEN</u> place STEAM DUMP MODE SELECTOR Switch to MANUAL.</li> <li>c. Ensure only one charging pump operating.</li> <li>d. Transfer Inst Bus B to maintenance supply.</li> <li>e. Return steam dump to AUTO, if desired.</li> <li>f. Ensure the following equipment operating as necessary: <ul style="list-style-type: none"> <li>• CCW Pump B</li> <li>• PRZR Backup Heaters</li> <li>• CNMT Recirc Fans B and C</li> <li>• Boric Acid Pump B</li> <li>• RMW Pump B</li> <li>• Reactor Compartment Cooling Fan B</li> <li>• Penetration Cooling Fan B</li> </ul> </li> <li>g. <u>IF</u> Bus 14 can <u>NOT</u> be energized, <u>THEN</u>: <ul style="list-style-type: none"> <li>o Provide alternate room cooling for D/G A.</li> <li>o Cross-connect D/G B fuel oil transfer pump to D/G A (Refer to ER-D/G.1).</li> </ul> </li> </ul>

EOP:	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 7 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8	Verify Bus 16 - ENERGIZED TO AT LEAST 420 VOLTS	<p>Perform the following:</p> <p>a. Ensure the following equipment operating as necessary:</p> <ul style="list-style-type: none"> <li>• CCW Pump A</li> <li>• Charging Pump A</li> <li>• PRZR Proportional Heaters</li> <li>• CNMT Recirc Fans A and D</li> <li>• Boric Acid Pump A</li> <li>• RMW Pump A</li> <li>• Reactor Compartment Cooling Fan A</li> <li>• Penetration Cooling Fan A</li> </ul> <p>b. <u>IF</u> Bus 16 can <u>NOT</u> be energized, <u>THEN</u>:</p> <ul style="list-style-type: none"> <li>o Provide alternate room cooling for D/G B.</li> <li>o Cross-connect D/G A fuel oil transfer pump to D/G B (Refer to ER-D/G.1).</li> </ul>

EOP:	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 8 of 17

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: IF VCT level decreased to 5%, charging pump suction will swap to the RWST. This may required a load reduction.

#### 9 Check VCT Makeup System:

a. Verify the following:

- 1) RMW mode selector switch in  
AUTO
- 2) RMW control armed - RED LIGHT  
LIT

b. Check VCT level:

- o Level GREATER THAN 20%  
-OR-
- o Level - STABLE OR INCREASING

a. Adjust controls as necessary.

b. Check letdown divert valve,  
LCV-112A, aligned to VCT.

Manually increase VCT makeup  
flow as follows:

- 1) Ensure BA transfer pumps and  
RMW pumps running.
- 2) Adjust RMW flow control  
valve, HCV-111, to increase  
RMW flow.
- 3) Increase boric acid flow as  
necessary to maintain  
required concentration.

IF VCT level can NOT be  
maintained, THEN refer to  
ER-CVCS.1, REACTOR MAKEUP  
CONTROL MALFUNCTION, if  
necessary.

## STEP

## ACTION/EXPECTED RESPONSE

## RESPONSE NOT OBTAINED

10 Check Charging Pump Suction  
Aligned To VCT:

a. VCT level - GREATER THAN 20%

a. IF VCT level can NOT be  
maintained greater than 5%, THEN  
perform the following:

1) Ensure charging pump suction  
aligned to RWST

o LCV-112B open

o LCV-112C closed

2) Continue with Step 11. WHEN  
VCT level greater than 20%,  
THEN do Step 10b.

b. Verify charging pumps aligned to  
VCT

b. Manually align valves as  
necessary.

o LCV-112C open

o LCV-112B closed

EOP: -	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 10 of 17

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: When restarting equipment for recovery, it is preferable to start equipment on busses being supplied from offsite power, if possible.

#### 11 Check CVCS Operation:

a. Charging pumps - AT LEAST ONE RUNNING

a. IF charging pump(s) available, THEN perform the following:

- 1) Start charging pumps as necessary.
- 2) Establish greater than 20 gpm charging line flow.

IF NO charging pumps available, THEN go to step 13

b. Charging line flow - GREATER THAN 20 GPM

b. Establish charging line flow to REGEN Hx - GREATER THAN 20 GPM

c. Check letdown indications:

c. Perform the following:

- o Check PRZR level - GREATER THAN 13%
- o Letdown flow - APPROXIMATELY 40 GPM
- o Letdown flow - STABLE

- 1) Close loop B cold leg to REGEN Hx, AOV-427.
- 2) Close letdown orifice valves (AOV-200A, AOV-200B, and AOV-202)
- 3) IF PRZR level greater than 13%, THEN go to Step 12. IF NOT, THEN continue with Step 14. WHEN PRZR level greater than 13%, THEN do Steps 12 and 13.

d. Adjust charging pump speed and HCV-142 as necessary to restore PRZR level and labyrinth seal D/P

e. Go to Step 13

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 11 of 17
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Steps 12 and 13 may be performed concurrently.

12 Establish Normal Letdown:

Perform the following steps in sequence to establish excess letdown, if desired:

- a. Establish charging line flow to REGEN Hx - GREATER THAN 20 GPM
- b. Place letdown controllers in MANUAL at 40% open
  - TCV-130
  - PCV-135
- c. Open AOV-427
- d. Open letdown orifice valves as necessary
- e. Place TCV-130 in AUTO at 105°F
- f. Place PCV-135 in AUTO at 250 psig
- g. Adjust charging pump speed and HCV-142 as necessary

- o Place excess letdown divert valve, AOV-312, to NORMAL
- o Ensure CCW from excess letdown open, AOV-745
- o Ensure RCP seal return isolation valve open, MOV-313
- o Open excess letdown isolation valve, AOV-310
- o Slowly open HCV-123 to maintain excess letdown temperature less than 195°F and pressure less than 100 psig

13 Verify PRZR Heaters Restored:

IF adequate D/G capacity available for PRZR heaters (400 kw each bank), THEN perform the following:

- o PRZR proportional heater breaker - CLOSED
- o PRZR backup heater breaker - RESET/IN AUTO

- a. Reset and close PRZR proportional heater breaker if necessary.
- b. Reset PRZR backup heater breaker and return to AUTO if necessary.

IF adequate D/G capacity NOT available, THEN refer to ER-PRZR.1.

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 12 of 17
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
14	Verify Normal Rod Control Restored:	
a.	Annunciator C-5, PPCS ROD SEQUENCE OR ROD DEVIATION - EXTINGUISHED	a. <u>IF</u> alarm is due to a loss of power to MRPI, <u>THEN</u> maintain rods in manual <u>AND</u> minimize rod motion.  <u>IF</u> alarm is due to actual rod misalignment, <u>THEN</u> refer to AP-RCC.2, RCC/RPI MALFUNCTION, while continuing with this procedure.
b.	Annunciator E-28, POWER RANGE ROD DROP ROD STOP - EXTINGUISHED	b. Perform the following: 1) Place rod control bank selector switch in MANUAL. 2) Reset NIS rod drop rod stop signals (at NIS racks) as necessary.
c.	Annunciator F-15, RCS TAVG DEV 4°F - EXTINGUISHED	c. Go to step 15
d.	Place rod control bank selector switch in AUTO if desired	

## STEP

## ACTION/EXPECTED RESPONSE

## RESPONSE NOT OBTAINED

## 15 Establish Stable Plant Conditions:

a. Check Tav<sub>g</sub> - TRENDING TO TREFa. Insert control rods or, if necessary, decrease turbine load to match Tav<sub>g</sub> to Tref.

b. Check PRZR pressure - TRENDING TO 2235 PSIG

b. Verify proper operation of PRZR heaters and spray or take manual control of PRZR pressure controller 431K.

c. Check PRZR level - TRENDING TO PROGRAM

c. Verify proper operation of charging pump speed controllers or take manual control of speed controllers to control PRZR level.

## 16 Restore Normal Electric System Alignment:

a. Verify circuit 767 and/or 751 - AVAILABLE

a. Continue with Step 17. WHEN offsite power available, THEN do Steps 16b and c.

b. Verify all emergency AC bus normal feed breakers - CLOSED

b. Perform the following:

- Bus 14
- Bus 16
- Bus 17
- Bus 18

1) Restore emergency AC busses to normal power supply (Refer to ER-ELEC.1, RESTORATION OF OFFSITE POWER)

2) IF normal power is restored to all AC emergency buses, THEN return to step 7. IF NOT, THEN go to step 17.

c. Stop any unloaded emergency D/G and place in standby (Refer to T-27.4)



## STEP

## ACTION/EXPECTED RESPONSE

## RESPONSE NOT OBTAINED

## 17 Establish Normal Plant Conditions:

- |  |   |
|--|---|
| a. Verify 2 charging pumps - RUNNING   | a. Perform the following:<br><br>1) Manually start charging pumps as necessary.<br><br>2) Place selected charging pump speed controller in AUTO if desired. |
| b. Verify at least 2 CNMT recirc fans - RUNNING  | b. Start CNMT recirc fans as necessary (240 kw each).   |
| c. Check CCW pumps - ONLY ONE RUNNING  | c. Locally verify two CCW pumps running, <u>THEN</u> manually stop one pump.  |
| d. Check radiation monitoring systems:<br><br>o CNMT vent sample pump - RUNNING<br><br>o Plant vent sample pump - RUNNING<br><br>o All area and process monitors operating as required | d. Restore sample pumps and radiation monitors as necessary. (Refer to CHA-RETS-ODCM).  |

## 18 Check Status Of DC System Loads:

- |  |  |
|--|--|
| a. Verify TDAFW pump DC oil pump - OFF IN AUTO | a. Perform the following:<br><br>1) Direct AO to locally check TDAFW AC oil pump running. <u>IF</u> not running, <u>THEN</u> start pump from MCB.<br><br>2) Stop TDAFW pump DC oil pump. |
|--|--|

EOP: -	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 15 of 17

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Inst Bus C provides power to all MCB manual controllers.

19 Check Status of Battery  
Chargers:

a. Battery Chargers 1A OR 1A1 -  
ENERGIZED.

a. IF BOTH battery chargers are  
deenergized, THEN direct the  
Electricians to crosstie TSC  
battery charger to main battery  
A (Refer to ATTACHMENT TRANSFER  
BATTERY TO TSC).

b. Battery Chargers 1B OR 1B1 -  
ENERGIZED

b. IF BOTH battery chargers are  
deenergized, THEN direct the  
Electricians to crosstie TSC  
battery charger to main battery  
B (Refer to ATTACHMENT TRANSFER  
BATTERY TO TSC).

## STEP

## ACTION/EXPECTED RESPONSE

## RESPONSE NOT OBTAINED

## 20 Restore Equipment Alignment:

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>a. Verify annunciator L-1, AUX BLDG VENT SYSTEM CONTROL PANEL - EXTINGUISHED</li><li>b. Restore affected bus equipment as desired<ul style="list-style-type: none"><li>o SFP Cooling</li><li>o Penetration cooling fans</li><li>o Reactor compartment cooling fans</li><li>o Hydrogen panel</li><li>o PA system inverter (Battery Room A)</li><li>o Auxiliary Bldg lighting (normal supply MCC D, manual throwover to MCC C)(located at MCC C)</li><li>o Fire system (Refer to SC-3.16.2.3)</li></ul></li><li>c. Check control board annunciator panels - ALARM STATUS VALID FOR PLANT CONDITIONS</li><li>d. Verify control board valve alignment - NORMAL (Refer to O-6.13, DAILY SURVEILLANCE LOG)</li></ul> | <ul style="list-style-type: none"><li>a. Dispatch AO to restore AUX BLDG ventilation (Refer to T-35A, AUX AND INTERMEDIATE BUILDING VENTILATION STARTUP AND SHUTDOWN)</li><li>c. Perform alarm response procedures for unexpected alarms.</li><li>d. Manually align valves as necessary.</li></ul> |
|--|--|

EOP:	TITLE:	REV: 3
AP-ELEC.14/16	LOSS OF SAFEGUARDS BUS 14/16	PAGE 17 of 17

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Refer to O-9.3, NRC IMMEDIATE NOTIFICATION, for reporting requirements.

21 Verify emergency AC bus  
normal feed breakers closed

Return to Step 7

o Bus 14

o Bus 16

22 Verify Inst Bus B on normal  
supply

Place Inst Bus B on normal supply  
(Refer to ER-INST.3, INSTRUMENT BUS  
POWER RESTORATION).

23 Reset UV relay targets on  
undervoltage cabinets

o Bus 14

o Bus 16

24 Notify Higher Supervision

25 Return To Procedure Or  
Guidance In Effect

-END-

EOP: AP-ELEC.14/16	TITLE: LOSS OF SAFEGUARDS BUS 14/16	REV: 3 PAGE 1 of 1
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AP-ELEC.14/16 APPENDIX LIST

TITLE

- 1) ATTACHMENT TRANSFER BATTERY TO TSC (ATT-24.0)