

DOCUMENT TRANSMITTAL FORM 69574  
FOR DOCUMENTS TRANSMITTED TO DC DESK (NRC)\*

DATE: 03 APR 1992  
BATCH 100

DOCUMENT NUMBER	SHEET NUMBER	REVISION NUMBER	COPY NUMBER
AR 702		10	24

INSTRUCTIONS TO THE ADDRESSEE

COMPLETE EACH OF THE INSTRUCTIONS BELOW WHICH ARE MARKED WITH AN "X"

- ☒ (1) VERIFY THE DOCUMENTS RECEIVED AGREE WITH THE ABOVE DESCRIPTION
- ☒ (2) INCORPORATE THE TRANSMITTED DOCUMENTS INTO YOUR FILES
- ☒ (3) DESTROY DOCUMENTS OR PORTIONS OF DOCUMENTS SUPERSEDED BY THE ABOVE
- ☒ (4) SIGN AND DATE IN THE SPACES BELOW INDICATING THAT YOU COMPLETED THESE INSTRUCTIONS
- ☐ (5) SIGN BELOW INDICATING THAT YOU HAVE READ AND UNDERSTOOD THE CHANGES AS IDENTIFIED
- ☒ (6) RETURN TO DOCUMENT CONTROL, CRYSTAL RIVER UNIT 3, MAC# NA10  
NR2A X SAIG FLORIDA POWER CORP., P.O. BOX 219  
CRYSTAL RIVER FLA 32620
- ☐ (7) QUALITY INSURANCE PERSONNEL HAVE READ AND UNDERSTOOD THE CHANGES TO THE AFFECTED GAP'S

SIGNATURE OF ADDRESSEE \_\_\_\_\_

DATE \_\_\_\_\_

INDEPENDENT VERIFICATION \_\_\_\_\_

DATE \_\_\_\_\_

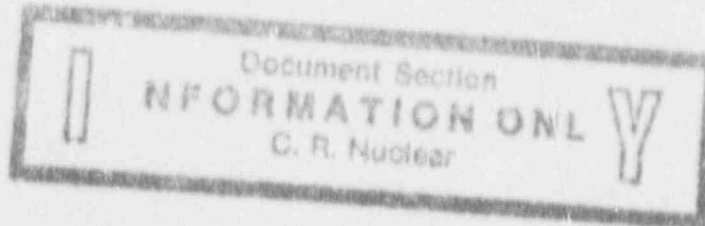
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ANNUNCIATOR RESPONSE

AR-702

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

SSF Q ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact

W. Marshall

Date: 4/1/92

INTERPRETATION CONTACT: Nuclear Operations Superintendent

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## 1.0 PURPOSE

- 1.1 Establish a reference document for each Annunciator Window on the SSF-A2 Lampbox.
- 1.2 Establish operator actions for valid Annunciator alarms on the SSF-A2 Lampbox.
- 1.3 Establish a reference to other procedures which address operator actions for valid Annunciator alarms on the SSF-A2 Lampbox.

## 2.0 REFERENCES

### 2.1 IMPLEMENTING REFERENCES

- 2.1.1 AP-770, Emergency Diesel Generator Actuation

### 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

## 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 SSF-A2 Lampbox as indicated on Enclosure 1, Annunciator Response.

## 5.0 FOLLOW-UP-ACTIONS

None

ANNUNCIATOR PANEL LOCATION SSF-A2 VERTICAL COLUMN 1

ANNUNCIATOR PANEL Q

WINDOW TITLE  
1. INDICATED CONDITION  
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPO-NT TROUBLE

1. AUTO ACTION  
2. OPERATOR ACTION - VALID ALARM

SETPOINT  
SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-1-1					
Q-1-2					
Q-1-3					
Q-1-4					
Q-1-5					

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL 0VERTICAL COLUMN 1

WINDOW TITLE

1. INDICATED CONDITION
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

SETPPOINT SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-1-6				
Q-1-7				
Q-1-8				
Q-1-9				
BUS PARALLELED	<ol style="list-style-type: none"> <li>1. a) Both 3102 &amp; 3104 closed at the same time.</li> <li>b) Both 3101 &amp; 3103 closed at the same time.</li> <li>c) Both 3202 &amp; 3204 closed at the same time.</li> <li>d) Both 3201 &amp; 3203 closed at the same time.</li> <li>e) Any two of the following breakers closed at the same time (3205, 3211, 3207, 3209).</li> <li>f) Any two of the following breaker closed at the same time (3206, 3208, 3210, 3212).</li> </ol>	<ol style="list-style-type: none"> <li>1. a) None.</li> <li>2. a) Open one breaker.</li> </ol>		52 A SWITCHGEAR
Q-1-10	<ol style="list-style-type: none"> <li>2. a) Both breakers indicate closed.</li> </ol>			

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 2

WINDOW TITLE	1. INDICATED CONDITION 2. CONTROL ROOM INDICATION WHICH VERIFY OR PINPOINT TROUBLE	1. AUTO ACTION 2. OPERATOR ACTION - VALID ALARM	SETPOINT	SENSING ELEMENT NUMBER & LOCATION
4KV ES BUS A DEAD  Q-2-1	1. a) Undervoltage on 4KV ES Bus A. 2. a) 4KV ES Bus A voltage indication.	1. a) Diesel start. 2. a) Refer to AP-770 (EDGA).		27 Y RELAY SWITCHGEAR
DIESEL GEN. A BREAKER TRIP  Q-2-2	1. a) Brk 3209 open with control switch in normal after close. 2. a) Breaker indication.	1. a) None. 2. a) Refer to AP-770 (EDGA).		CS/SC CS/O SWITCHGEAR
DIESEL GEN A BREAKER CLOSED  Q-2-3	1. a) Diesel generator A breaker closed and ES actuation OR b) Diesel generator A breaker closed and Bus UV. 2. a) ES A actuation indication. b) Breaker 3209 breaker indication. c) 4160V ES A bus voltage indication.	1. a) None. 2. a) Refer to AP-770 (EDGA).		
4KV ES A CROSS-TIE BLOCKED  Q-2-4	1. a) Indicates brks 3209 and 3210 are closed and either 3206, 3208, or 3112 is closed. 2. a) Breakers indicate closed.	1. a) Blocks closure of 3205 if 3206 closed. b) Blocks closure of 3207 if 3208 closed. c) Blocks closure of 3211 if 3212 closed. 2. a) None.		3-52-5 3206, 8, 9, 10, 12 CB-SSAR-3
DIESEL GEN A VOLTAGE ADJ IN CONTROL RM  Q-2-5	1. a) Diesel Generator A voltage adjust selected to Control Room. 2. a) Selector Switch position.	1. a) None. 2. a) Place switch in "Remote" following surveillance testing.		KB SS-CR CB-SSF

ANNUNCIATOR PANEL LOCATION SSF-42ANNUNCIATOR PANEL CVERTICAL COLUMN 2

WINDOW TITLE    1. INDICATED CONDITION  
                   2. CONTROL ROOM INDICATION WHICH VERIFY OR  
                   PINPOINT TROUBLE

1. AUTO ACTION  
 2. OPERATOR ACTION - VALID ALARM

SETPoint    SENSING  
 ELEMENT  
 NUMBER &  
 LOCATION

Q-2-6				
480V ES BUS A DEAD	1. a) Undervoltage on 480V ES Bus A. 2. a) Voltage on bus indicates low.	1. a) 480V ES A equipment trip on UV. 2. a) Refer to AP-770 (EDGA).		27Y-1 SWITCHGEAR
Q-2-7				
480V ES BUS A UV LOCKOUT ACT	1. a) ES A actuation and diesel A breaker closed. b) ES A actuation and 4160V ES bus A UV. 2. a) ES status panel. b) Breaker 3209 status indication. c) 4160V ES bus A voltage indication.	1. a) See Note Q-2-8. 2. a) Refer to AP-770 (EDGA)		B6/27ESA CB-55R
Q-2-8				
Q-2-9				
POTENTIAL TRANSFORMER TROUBLE	1. a) Potential transformer trouble on one of 16 busses. See Note Q-2-10. 2. a) None.	1. a) None. 2. a) Investigate cause of loss of control power and inform Electrical Supervisor. b) Investigate cause of PT trouble and inform Electrical Supervisor.		27 Z 27 Y-1 SWITCHGEAR
Q-2-10				



ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 3

WINDOW TITLE	1. INDICATED CONDITION 2. CONTROL ROOM INDICATION WHICH VERIFY OR PINPOINT TROUBLE	1. AUTO ACTION 2. OPERATOR ACTION - VALID ALARM	SETPPOINT ELEMENT NUMBER & LOCATION	SENSING ELEMENT NUMBER & LOCATION
DIESEL GEN A OVER 3250 KW  Q-3-1	1. a) EDG A load $\geq$ 3250 KW for 10 sec. 2. a) EDG A KW meter. b) EDG A cumulative time meter.	1. a) Breakers 3205, 3207, and 3211 open at 3500 KW. 2. a) Lower load if surveillance testing. b) Refer to AP-770 (EDGA).	3250 KW 10 Sec 3500 KW	62 BX EGEN-1
DIESEL GEN A OVER 3250 KW FOR 24/29 MIN  Q-3-2	1. a) EDG A cumulative time since last overhaul $\geq$ 24 min. b) EDG A cumulative time since last overhaul $\geq$ 29 min. 2. a) EDG A cumulative time meter.	1. a) None. 2. a) Notify Engineering to ensure diesel operability.	3250 KW 29 Min 24 Min	62BX EGEN-1
Q-3-3				
4KV ES A UNDERVOLTAGE TRIP BLOCKED  Q-3-4	1. a) 4KV ES Bus A UV relays being tested. b) No UV protection during test. 2. a) None.	1. a) None. 2. a) Monitor ES bus and take appropriate action if U.V. condition occurs.		15-1 TBS-1 MTCB-1A
Q-3-5				

ANNUNCIATOR PANEL LOCATION SSF-A2

ANNUNCIATOR PANEL 0

VERTICAL COLUMN 3

WINDOW TITLE 1. INDICATED CONDITION  
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION  
2. OPERATOR ACTION - VALID ALARM

SETPPOINT SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-3-6					
Q-3-7					
Q-3-8					
Q-3-9					
Q-3-10					

ANNUNCIATOR PANEL LOCATION SSF-A2

ANNUNCIATOR PANEL Q

VERTICAL COLUMN 4

WINDOW TITLE  
1. INDICATED CONDITION  
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION  
2. OPERATOR ACTION - VALID ALARM

SETPOINT  
SENSING  
ELEMENT  
NUMBER &  
LOCATION

0-4-1					
0-4-2					
0-4-3					
0-4-4					
0-4-5					

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 4

WINDOW TITLE

1. INDICATED CONDITION
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

SETPOINT    SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-4-6				
Q-4-7				
Q-4-8				
Q-4-9				
Q-4-10				

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 5

WINDOW TITLE    1. INDICATE CONDITION  
                     2. CONTROL ROOM INDICATION WHICH VERIFY OR  
                                 PINPOINT TROUBLE

1. AUTO ACTION  
 2. OPERATOR ACTION - VALID ALARM

SETPPOINT    SENSING  
                  ELEMENT  
                  NUMBER &  
                  LOCATION

Q-5-1				
4KV ES BUS DEGRADED VOLT TRIP	1. a) 4160V ES Bus A or B voltage on one or more phases < 3864V for > 5 sec. 2. a) 4160V ES Bus A or B voltage indication.	1. a) Auto start of diesel generator A or B if <u>ALL 3</u> phases are affected. 2. a) None.	3864V 5 sec.	32EA/32EB Switchgear
Q-5-2				
CROSS-TIE BLOCKING LOSS OF DC	1. a) 4160 ES Bus A or B cross tie block LO relay loss of DC power. b) 4160 ES Bus A or B cross tie block circuit loss of DC power. 2. a) None.	1. a) None. 2. a) Investigate cause of loss of DC. b) Inform Electrical Supervisor of condition.		27C-1A CB-SSAR 3 27C-2A 27C-2B
Q-5-3				
ES BKR DC POWER LOSS	1. a) Loss of DC control power to one of 23 ES breakers. See Note Q-5-4. 2. a) Breaker indicator lights off.	1. a) None. 2. a) Investigate cause of loss of control power. b) Inform Electrical Supervisor of condition.		27C RELAY SWITCHGEAR
Q-5-4				
ES BREAKER WITHDRAWN	1. a) One or more of 6 ES breakers not in correct position. See Note Q-5-5. 2. a) Brk lights out.	1. a) None. 2. a) Determine reason for breaker being racked out, or in test position.		52 W SWITCHGEAR
Q-5-5				

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 5

WINDOW TITLE    1. INDICATED CONDITION  
                   2. CONTROL ROOM INDICATION WHICH VERIFY OR  
                   PINPOINT TROUBLE

1. AUTO ACTION  
 2. OPERATOR ACTION - VALID ALARM

SETPOINT    SENSING  
               ELEMENT  
               NUMBER &  
               LOCATION

Q-5-6				
ES MCC 3AB DEAD	1. a) ES MCC 3AB undervoltage. 2. a) Loss control pressurizer spray valve. b) Loss of equipment supplied by ES MCC 3AB.	1. a) Undervoltage trip on ES MCC 3AB equipment. 2. a) Press manual transfer button and transfer bus to alternate power source.		AR RELAY TRANSFER SWITCH
Q-5-7				
ES MCC 3AB BREAKER OPEN	1. a) Either 3360 or 3361 open. 2. a) None.	1. a) None. 2. a) Press manual transfer and transfer bus if bus is dead. b) Investigate cause of open breaker.		R/B SWITCHGEAR
Q-5-8				
Q-5-9				
Q-5-10				



ANNUNCIATOR PANEL LOCATION SSF-A2      ANNUNCIATOR PANEL Q      VERTICAL COLUMN 6

WINDOW TITLE      1. INDICATED CONDITION  
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION  
2. OPERATOR ACTION - VALID ALARM

SETPOINT      SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-6-6					
Q-6-7					
Q-6-8					
Q-6-9					
Q-6-10					



ANNUNCIATOR PANEL LOCATION SSr-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 7

WINDOW TITLE	1. INDICATED CONDITION 2. CONTROL ROOM INDICATION WHICH VERIFY OR PINPOINT TROUBLE	1. AUTO ACTION 2. OPERATOR ACTION - VALID ALARM	SETPOINT	SENSING ELEMENT NUMBER & LOCATION
4KV ES BUS B DEAD  Q-7-1	1. a) Undervoltage on 4KV ES Bus B. 2. a) 4KV ES Bus B voltage indication.	1. a) Diesel starts. 2. a) Refer to AP-770 (EDGA).		27 Y RELAY SWITCHGEAR
DIESEL GEN B BREAKER TRIP  Q-7-2	1. a) Brk 3210 open with control switch in normal after close. 2. a) Breaker indication.	1. a) None. 2. a) Refer to AP-770 (EDGA).		CS/SC CS/O  CB-SSP
DIESEL GEN B BREAKER CLOSED  Q-7-3	1. a) Diesel generator B breaker closed and ES actuation <u>OR</u> b) Diesel generator B breaker closed and Bus UV. 2. a) ES B actuation indication. b) Breaker 3210 breaker indication. c) 4160V ES B Bus voltage indication.	1. a) None. 2. a) Refer to AP-770 (EDGA).		868/ESB CB-SSAR3
4KV ES B CROSS-TIE BLOCKED  Q-7-4	1. a) Indicates brks 3209 and 3210 are closed and either 3205, 3207, or 3211 is closed. 2. a) Breakers indicate closed.	1. a) Blocks closure of 3206 if 3205 closed. b) Blocks closure of 3208 if 3207 closed. c) Blocks closure of 3212 if 3211 closed.		3-52 3205, 7,9, 10, 11 CB-SSAR-3
DIESEL GEN B VOLTAGE ADJ IN CONTROL RM  Q-7-5	1. a) Diesel Generator B voltage adjust selected to Control Room. 2. a) Selector switch position.	1. a) None. 2. a) Place switch in "Remote" following surveillance testing.		KD CB-SST

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 7

WINDOW TITLE

1. INDICATED CONDITION
2. CONTROL ROOM INDICATION WHICH VERIFY OR  
PINPOINT TROUBLE

1. AUTO ACTION
2. OPERATOR ACTION - VALID ALARM

SETPOINT

SENSING  
ELEMENT  
NUMBER &  
LOCATION

Q-7-6				
480V ES BUS B DEAD	<ol style="list-style-type: none"> <li>1. a) Undervoltage on 480V ES Bus B.</li> <li>2. a) Voltage on bus indicates low.</li> </ol>	<ol style="list-style-type: none"> <li>1. a) 480V ES B equipment trip on UV.</li> <li>2. a) Refer to AP-770 (EDGA).</li> </ol>		27Y SWITCHGEAR
Q-7-7				
480V ES BUS B UV LOCKOUT ACT	<ol style="list-style-type: none"> <li>1. a) ES B actuation and diesel B breaker closed. b) ES B actuation and 4160V ES Bus B UV.</li> <li>2. a) ES status panel. b) Breaker 3210 status indication. c) 4160 ES Bus B voltage indicator.</li> </ol>	<ol style="list-style-type: none"> <li>1. a) See Note Q-7-8.</li> <li>2. a) Refer to AP-770 (EDGA).</li> </ol>		86/27ESB CB-SSR
Q-7-8				
Q-7-9				
Q-7-10				

ANNUNCIATOR PANEL LOCATION SSF-A2ANNUNCIATOR PANEL QVERTICAL COLUMN 8

WINDOW TITLE	1. INDICATED CONDITION 2. CONTROL ROOM INDICATION WHICH VERIFY OR PINPOINT TROUBLE	1. AUTO ACTION 2. OPERATOR ACTION - VALID ALARM	SETPOINT	SENSING ELEMENT NUMBER & LOCATION
DIESEL GEN B OVER 3250 KW  Q-8-1	1. a) EDG B load $\geq$ 3250 for 10 sec. 2. a) EDG B KW meter. b) EDG B cumulative time meter.	1. a) Breakers 3206, 3208, and 3212 open at 3500 KW. 2. a) Lower load if surveillance testing. b) Refer to AP-770 (EDGA).	3250 KW 10 sec. 3500 KW	63-BX EGEN-2
DIESEL GEN B OVER 3250 KW FOR 24/29 MIN  Q-8-2	1. a) EDG B cumulative time since last overhaul $\geq$ 24 min. b) EDG B cumulative time since last overhaul $\geq$ 29 min. 2. a) EDG B cumulative time meter.	1. a) None. 2. a) Notify Engineering to ensure diesel operability.	3250 KW 29 min. 24 min.	63-BX EGEN-2
Q-8-3				TS-1 TBS-2 MTCP-1B
4KV ES B UNDervOLTAGE TRIP BLOCKED  Q-8-4	1. a) 4KV ES Bus B UV relays being tested. b) No UV protection. 2. a) None.	1. a) None. 2. a) Monitor ES bus and take appropriate action if UV condition occurs.		
Q-8-5				

ANNUNCIATOR PANEL LOCATION SSF-A2      ANNUNCIATOR PANEL 0      VERTICAL COLUMN 8

WINDOW TITLE      1. INDICATED CONDITION      2. CONTROL ROOM INDICATION WHICH VERIFY OR PINPOINT TROUBLE      1. AUTO ACTION      2. OPERATOR ACTION - VALID ALARM      SETPOINT      SENSING ELEMENT NUMBER & LOCATION

Q-8-6							
Q-8-7							
Q-8-8							
Q-8-9							
Q-8-10							

ANNUNCIATOR  
WINDOW  
LOCATION

## NOTES

- 
- |       |  |
|-------|--|
| Q-2-8 | a) 480V ES A UV Lockout                |
|       | b) 480V ES A Tie Breaker (3391)        |
|       | c) Spent Fuel Pump A                   |
|       | d) Chiller A                           |
|       | e) Chilled Water Pump A                |
|       | f) AHF-17A                             |
|       | g) AHF-18A                             |
|       | h) AHF-19A                             |
|       | i) EFIC Room Fan (AHF-54A)             |
|       | j) Boric Acid Storage Tank A<br>Heater |
|       | k) BWST Heater A                       |
|       | l) Breaker 3321                        |
|       | m) Heat Tracing                        |

ANNUNCIATOR  
PANEL  
LOCATION

## NOTES

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Q-2-10	a) 6900V Reactor Aux Bus A
	b) 6900V Reactor Aux Bus B
	c) 4160V Unit Bus A
	d) 4160V Unit Bus B
	e) 4160V ES Bus A
	f) 4160V ES Bus B
	g) 480V Reactor Aux Bus A
	h) 480V Reactor Aux Bus B
	i) 480V Turbine Aux Bus A
	j) 480V Turbine Aux Bus B
	k) 480V Intake Aux Bus A
	l) 480V Intake Aux Bus B
	m) 480V Plant Aux Bus
	n) 480V Heating Aux Bus
	o) 480V ES Bus A
	p) 480V ES Bus B

ANNUNCIATOR  
PANEL  
LOCATION

## NOTES

- Q-5-4
- a) 4160V ES Bus A source from Units 1&2 SU Breaker 3211
  - b) 4160V ES Bus B source from Units 1&2 SU Breaker 3212
  - c) 4160V ES Bus A source from Unit 3 SU Breaker 3205
  - d) 4160V ES Bus F source from Unit 3 SU Breaker 3206
  - e) 4160V ES Bus A source from Unit Aux Breaker 3207
  - f) 4160V ES Bus B source from Unit Aux Breaker 3208
  - g) 4160V Diesel Generator A Breaker 3209
  - h) 4160V Diesel Generator B Breaker 3210
  - i) 4160V ES Bus A Feed to 480V Breaker 3221
  - j) 4160V ES Bus B Feed to 480V Breaker 3220
  - k) 480V ES Bus A Tie Breaker 3391
  - l) 480V ES Bus B Tie Breaker 3390
  - m) 480V ES Bus A Source Breaker 3311
  - n) 480V ES Bus B Source Breaker 3310
  - o) 480V ES MCC A1 Feeder Breaker 3341
  - p) 480V ES MCC A2 Feeder Breaker 3351
  - q) 480V ES MCC A3 Feeder Breaker 3331
  - r) 480V ES MCC A Feeder Breaker 3340
  - s) 480V ES MCC B2 Feeder Breaker 3350
  - t) 480V ES MCC B3 Feeder Breaker 3330
  - u) 480V ES MCC AB From ESA Feeder Breaker 3361
  - v) 480V ES MCC AB From ESB Feeder Breaker 3360
  - w) 480V Plant Aux XFMR Feeder Breaker 3222

ANNUNCIATOR  
PANEL  
LOCATION

NOTES

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- Q-5-5
- a) 4160V ES Bus B Dummy Breaker
  - b) 4160V ES Bus A Feed to 480V Breaker 3221
  - c) 4160V ES Bus B Feed to 480V Breaker 3220
  - d) 480V ES Bus A Source Breaker 3311
  - e) 480V ES Bus B Source Breaker 3310
  - f) 480V ES MCC AB Feeder Breakers 3360/3361



ANNUNCIATOR  
WINDOW  
LOCATIONNOTES

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- Q-7-8
- a) 480V ES B UV Lockout
  - b) 480V ES C Tie Breaker (3390)
  - c) Spent Fuel Pump B
  - d) Chiller B
  - e) Chilled Water Pump B
  - f) AHF-17B
  - g) AHF-18B
  - h) AHF-19B
  - i) EFIC Room Fan (AHF-54B)
  - j) Boric Acid Storage Tank B Heater
  - k) BWST Heater B
  - l) Breaker 3222
  - m) Heat tracing