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Nuclear Northeast



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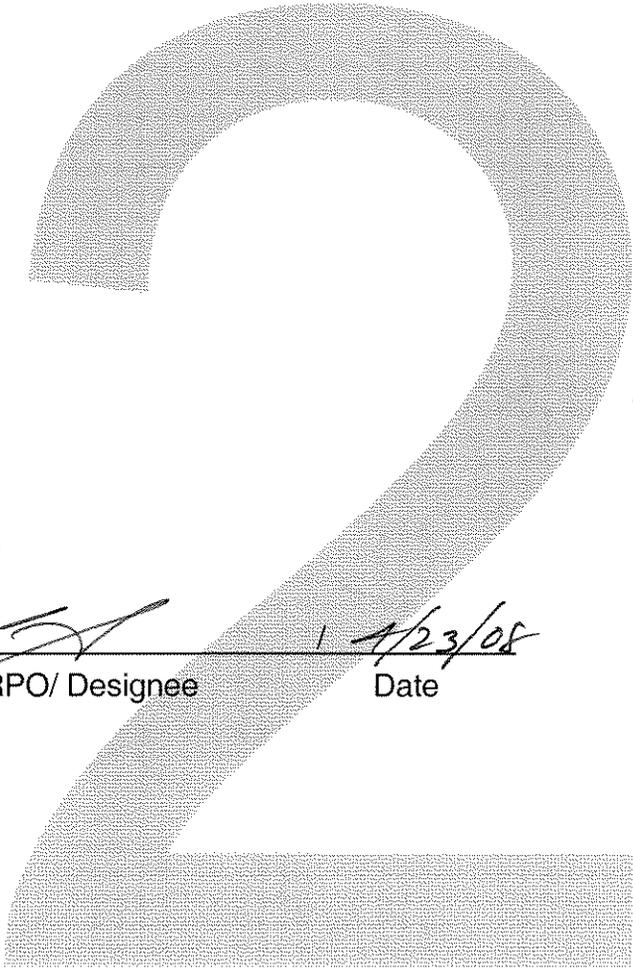
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Effective Date 4/28/08

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PROVIDING APPENDIX R POWER FROM UNIT 3**

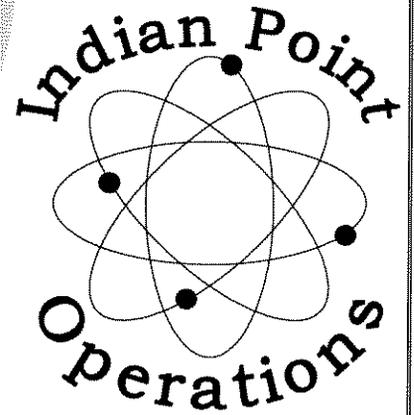


**Approved By:**

Procedure Sponsor, RPO/ Designee

1 4/23/08

Date



**Team 2B**

Procedure Owner

**PARTIAL REVISION**

## REVISION SUMMARY

### 1.0 REASONS FOR REVISION

- 1.1 Incorporate EC-33794 IP2 Appendix R Diesel Generator Mod

### 2.0 SUMMARY OF CHANGES

- 2.1 PURPOSE Section - Delete Gas Turbine reference since 3ARDG use will now be used prior to GTs.
- 2.2 ENTRY CONDITIONS Section - Update entry procedures.
- 2.3 Step 2.RNO -Delete EO-4087 reference since document is cancelled.
- 2.4 Attachment 1, Step 2& 4.RNO - Delete EO-4087 reference since document is cancelled.
- 2.5 Attachment 1, Step 3 CAUTION - Delete due to engineering analysis approved. (No rev bar)
- 2.6 Attachment 1, Step d. - Add "OPEN Breaker OSP" to list.
- 2.6 Figure 1, pg.16 - Update ASSS Distribution diagram.
- 2.6 Update procedures referenced to current names. (No rev bar)

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## **1.0 PURPOSE**

Provide alignment, loading, and unloading instructions for Unit 3 Appendix R Diesel Generator. This procedure will be used in conjunction with Unit 3 Procedure 3-SOP-EL-013, Appendix R Diesel Generator Operation.

## **2.0 SYMPTOMS/ENTRY CONDITIONS**

- 2.1. 2-ONOP-FP-001, Plant Fires.
- 2.2. 2-AOP-SSD-1, Control Room Inaccessibility Safe Shutdown Control.
- 2.3. 2-ECA-0.0, Loss Of All AC Power.

## **3.0 AUTOMATIC ACTIONS**

- 3.1. None

## **4.0 IMMEDIATE OPERATOR ACTIONS**

- 4.1. None

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**5.0 OPERATOR ACTIONS**

**1. ASSEMBLE Personnel:**

- (a) NOTIFY Unit 3 Central Control Room of need for Unit 3 Appendix R Diesel Generator to supply Unit 2  
[Telephone - 8-714-8277 (CRS)  
- 8-714-8202 (RO)  
- 8-714-8274 (STA)]

- (b) VERIFY all affected watch personnel have been contacted

(b) ESTABLISH communications with all affected watch personnel, including Unit 3, by telephone, OR radio

**2. SUPPLY Unit Three Appendix R power per Attachment 1, page 8.**

2. IF Substation 12FD3 AND 12RW3 can NOT be energized, CONTACT the DO [(212)-580-6754], AND REQUEST power alignment assistance.

**3. ALIGN Alternate Safe Shutdown Power Supplies per 2-AOP-SSD-1, Control Room Inaccessibility Safe Shutdown Control**

- (a) MAINTAIN communications with Unit 3 Appendix R Diesel Generator Operator as ASSS Pumps are added
- (b) WHEN Normal Unit 2 power has been restored, CONTINUE to Step 6

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**4. REPLACE ASSS Pumps with other pumps powered from Unit 2 480 Volt Buses using appropriate SOPs**

- (a) MAINTAIN communications with Unit 3 Appendix R Diesel Generator Operator as ASSS Pumps are removed
- (b) WHEN all Unit 2 ASSS equipment powered from Unit 3 has been secured, RELEASE Unit 3 Appendix R Diesel for shutdown per 3-SOP-EL-013, Appendix R Diesel Generator Operation

**END**

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## 6.0 REFERENCES

### 6.1 DEVELOPMENT DOCUMENTS

- 2-AOP-SSD-1, Control Room Inaccessibility Safe Shutdown Control

#### 6.1.1 PROCEDURES

- 2-AOP-SSD-1, Control Room Inaccessibility Safe Shutdown Control
- 3-SOP-EL-013, Appendix R Diesel Generator Operation (Unit 3)

#### 6.1.2 TECHNICAL SPECIFICATIONS

- None

### 6.2 NRC COMMITMENTS

None

### 6.3 UFSAR

None

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**ATTACHMENT 1**

**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER**

**CAUTION**

IF Feeder 13W93 is unavailable, the Unit 3 Appendix R Diesel Generator should either be loaded or shutdown within 2 hours of loss of the Unit 3 GT bus, to ensure adequate DC power is available for engine operation.

**NOTE**

- Figure 1, Page 16, Electrical Distribution For ASSS (Excluding Unit 3 Appendix R Diesel Generator) Power, and Figure 2, Page 17, Unit 3 Appendix R Diesel Generator, should be referred to while using this attachment.
- IF control power is lost, Attachment 2, Page 15, Local Operation of 13.8 KV Breakers, should be referred to.

**1. ALIGN UNIT 1, 2, AND 3 BUSES, AND FEEDERS FOR START OF UNIT 3 APPENDIX R DIESEL GENERATOR WITH FEEDER 13W93:**

- (a) ESTABLISH communication with District Operator (DO) (Tel. 212-580-6754)
- (b) VERIFY Breaker F3-1 - OPEN (At Buchanan Substation, Bus 3A)
  - (1) REQUEST Notification from DO as soon as F3-1 has been opened
- (c) VERIFY Breaker B3-3 - OPEN

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**ATTACHMENT 1**

**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER (Continued)**

- (d) VERIFY the following 6.9 KV Breakers - OPEN
  - 52GT/BT 6.9 KV GT-1 to Unit 3 Breaker (Unit 3)
  - 52GT-CP(Unit 3)
  - 52GT-35 (Unit 3)
  - 52GT-36 (Unit 3)
- (e) VERIFY Breaker 52GT-2F - CLOSED

**2. START UNIT 3 APPENDIX R DIESEL GENERATOR:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>(a) REQUEST Unit 3 to Start Unit 3 Appendix R Diesel Generator, per 3-SOP-EL-013, Appendix R Diesel Generator Operation</li> <li>(b) CHECK Unit 3 Appendix R Diesel Generator - <u>RUNNING AND</u> Output Breaker CLOSED</li> </ul> | <ul style="list-style-type: none"> <li>(a) <u>IF</u> Feeder 13W93 unavailable, <u>OR</u> Breaker 52GT-2F can <u>NOT</u> be closed, GO TO Step 3, this Attachment</li> <li>(b) <u>CONTACT</u> the DO [(212)-580-6754], <u>AND</u> REQUEST power alignment assistance</li> </ul> |
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**ATTACHMENT 1**  
**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER (Continued)**

**NOTE**

The specifics of tagging the equipment to prevent operation is NOT to interfere with performance of steps to restore Appendix R Power. The tagging details are to be addressed separate from this procedure.

(c) CHECK the following  
Breakers - OPEN  
(Unit 1 Light and Power Room)

- Breaker SB1-T
- Breaker SB1-4

(1) INITIATE Tagging Breaker  
SB1-T, and SB1-4 OPEN

(c) OPEN the following Breakers (Unit 1  
Light and Power Room -  
Attachment 2, Page 15)

- Breaker SB1-T
- Breaker SB1-4
- 1. SELECT LOCAL on breaker  
LOCAL/REMOTE switch
- 2. PLACE Breaker Control Switch  
to OPEN

**NOTE**

Feeder 13W93 should be energized at this time. Closing Breaker B3-3 will energize Substation 12FD3 and 12RW3.

(d) CLOSE Breaker B3-3

(e) EXIT this Attachment

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**ATTACHMENT 1**

**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER** (Continued)

**3. ALIGN UNIT 1, 2, AND 3 BUSES, AND FEEDERS FOR START OF UNIT 3 APPENDIX R DIESEL GENERATOR WITH FEEDER 13W92:**

- (a) PLACE the 52CS GENERATOR BREAKER Switch to TRIP/PULLOUT

**NOTE**

Operator Aid 95-17 need NOT be observed when shifting the GT-1/GT-2 CONTROL LOCATION SELECTOR LOCAL/ REMOTE Switch to LOCAL, since Breaker GT-1, and GT-2 will be Opened in the next step.

- (b) PLACE GT-1/GT-2 CONTROL LOCATION SELECTOR LOCAL/ REMOTE switch in LOCAL (GT-1 Local Control Panel - Far Right Side)
- (c) VERIFY the following 13.8 KV to 6.9 KV Breakers - OPEN
- Breaker GT-1
  - Breaker GT-2
  - 52GT-25
  - 52GT-26
  - 52GT-CP(Unit 3)
  - 52GT-35 (Unit 3)
  - 52GT-36 (Unit 3)

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**ATTACHMENT 1**

**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER (Continued)**

(d) OBTAIN District Operator and Unit 3 Concurrence, AND ALIGN 6.9 KV Bus to provide power to Unit 1, 13.8 KV Bus as follows, using Telephone, OR radios, as available [Telephone - (212)-580-6754 (DO)  
 - 8-714-8277 (U3 CRS)  
 - 8-714-8202 (U3 RO)  
 - 8-714-8274 (U3 STA)]:

(1) VERIFY Breaker F2-3 (At Buchanan Substation, Bus 2A) OPEN

1. REQUEST Notification from DO as soon as F2-3 has been opened

- (2) VERIFY Breaker B2-2 OPEN
- (3) OPEN Breaker B3-3
- (4) OPEN Breaker SB1-1
- (5) OPEN Breaker SB1-4
- (6) OPEN Breaker OSP

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**ATTACHMENT 1**  
**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER (Continued)**

**NOTE**

The specifics of tagging the equipment to prevent operation is NOT to interfere with performance of steps to restore Appendix R Power. The tagging details are to be addressed separate from this procedure.

- (7) INITIATE Tagging of Breakers B3-3, SB1-1, SB 1-4 and OSP OPEN
  - (8) CLOSE Breaker SB1-2
  - (9) CLOSE Breaker SB1-T
  - (10) VERIFY Breaker SB1-3 CLOSED
  - (11) CLOSE Breaker GT-2
  - (12) CLOSE Breaker GT-1
- (e) NOTIFY Unit 3 to OPEN 52GT-2F
- (f) NOTIFY Unit 3 to CLOSE 52GT/BT

**4. START UNIT 3 APPENDIX R DIESEL GENERATOR:**

- (a) REQUEST Unit 3 to Start Unit 3 Appendix R Diesel Generator, per 3-SOP-EL-013, Appendix R Diesel Generator Operation
- (b) CHECK Unit 3 Appendix R Diesel Generator - RUNNING AND Output Breaker CLOSED
- (b) CONTACT the DO [(212)-580-6754], AND REQUEST power alignment assistance

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**ATTACHMENT 1**  
**UNIT 3 APPENDIX R DIESEL GENERATOR START / UNIT ONE POWER (Continued)**

**NOTE**

Feeder 13W92 should be energized at this time. Closing Breaker B2-2 will energize Substation 12FD3 and 12RW3.

- (c) CLOSE Breaker B2-2
- (d) EXIT this Attachment

**END OF ATTACHMENT 1**

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**ATTACHMENT 2**

**LOCAL OPERATION OF 13.8 KV BREAKERS**

1. **VERIFY** all Unit 1 Light and Power buses de-energized
2. **CHECK 13.8 KV breaker - REQUIRED OPEN**      2. GO TO Step 3
  - (a) OPEN breaker door
  - (b) REMOVE the TRIP fuses AND the CLOSE fuses
  - (c) PRESS TRIP pushbutton
  - (d) CLOSE breaker door
3. **CHECK 13.8 KV breaker - REQUIRED CLOSED**
  - (a) OPEN breaker door
  - (b) REMOVE the TRIP fuses AND the CLOSE fuses
  - (c) PRESS CLOSE pushbutton
  - (d) CLOSE breaker door

**END OF ATTACHMENT 2**

FIGURE 1

ELECTRICAL DISTRIBUTION FOR ASSS (EXCLUDING UNIT 3 APPENDIX R DIESEL GENERATOR) POWER

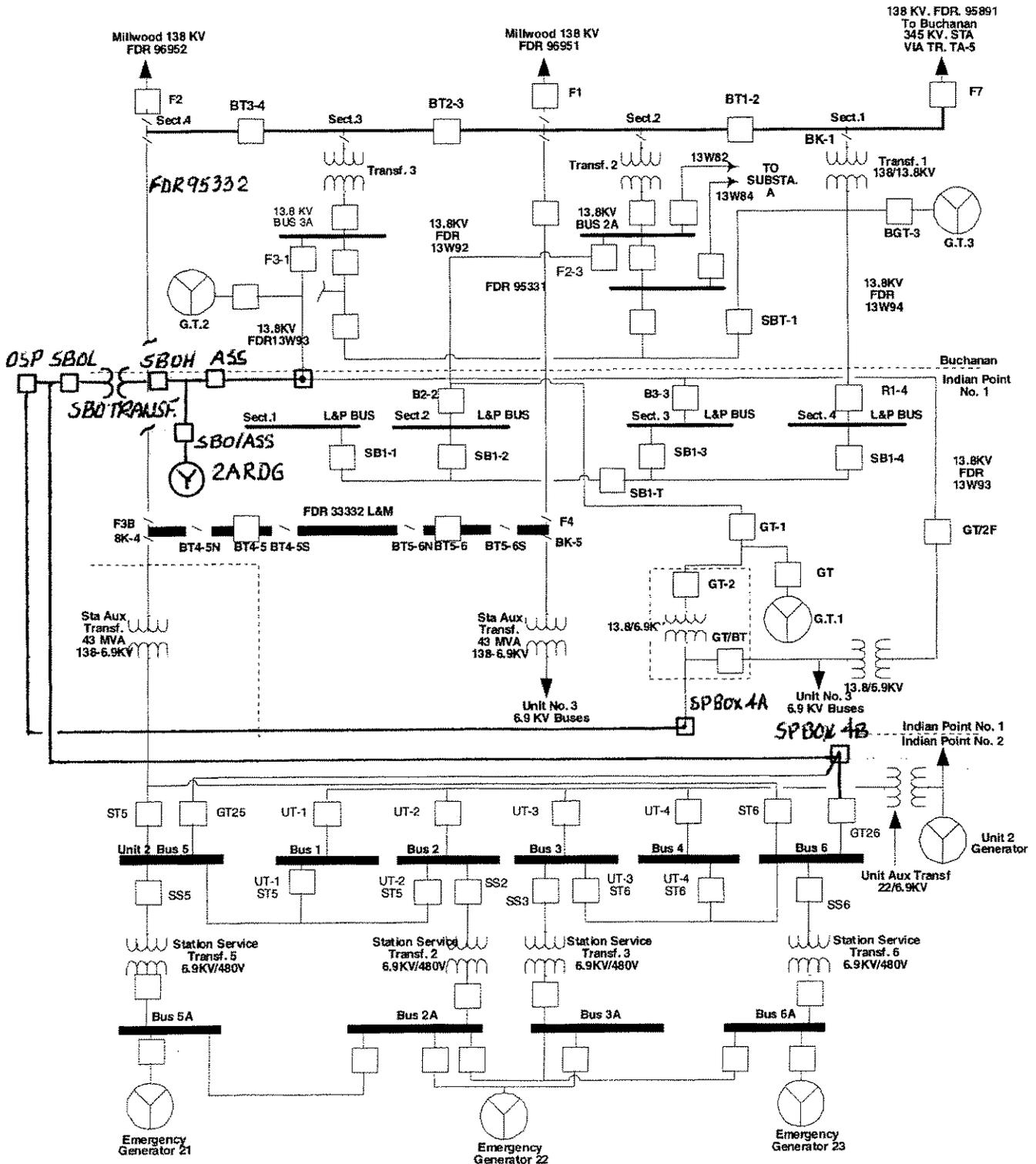


FIGURE 2

UNIT 3 APPENDIX R DIESEL GENERATOR

