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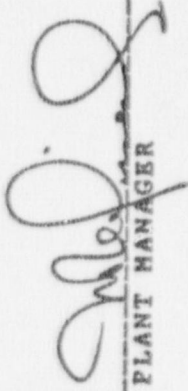
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IEOP05-KO-FRSI REV. 3

RESPONSE TO NUCLEAR POWER GENERATION/ATWS

STATION PROCEDURE

SAFETY RELATED


PLANT MANAGER

11/15/88
DATE APPROVED

1-15-89
DATE EFFECTIVE

8906260270 890615
FDR ADOCK 05000498
PDC

10/1/89



South Texas Project Electric Generating Station EMERGENCY OPERATING PROCEDURES

RESPONSE TO NUCLEAR POWER GENERATION/ATWS

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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

PURPOSE

This procedure provides actions to add negative reactivity to the reactor core which is observed to be critical when expected to be shutdown.

SYMPTOMS OR ENTRY CONDITIONS

This procedure is entered from :

1. 1POP05-EO-EO00, REACTOR TRIP OR SAFETY INJECTION, Step 1.0, when Rx Trip is not verified and manual trip is not effective.
2. 1POP05-EO-001, SUBCRITICALITY, CRITICAL SAFETY FUNCTION STATUS TREE on either a Red or Orange condition.



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

*
*
*
*
* An ATWS represents a potential ALERT as per
* OEPP01-ZA-0001, EMERGENCY CLASSIFICATION.
*

CAUTION

NOTE

Steps 1.0 through 4.0 are Immediate Action Steps

NOTE

Operator Addenda should be handed out.



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CONTINGENCY ACTION

[P] 1.0 VERIFY Rx Trip:

1.1 Rods on bottom.

PRI IND - MCB (1-CP005)

ALT IND - NONE

DIGITAL ROD POSITION

INDICATION SYSTEM

RE lights

1.2

Rx Trip AND Bypass BKRS -
Open.

PRI IND - MCB (1-CP005)

ALT IND - NONE

R NORM

S NORM

R BYP

S BYP

1.3

CHECK Neutron Flux

decreasing on Extended

Range NI.

PRI IND - QDPS(S)

ALT IND - MCB (1-CP018)

ERFDADS(S)

EXTENDED RANGE

a. Manually trip Reactor by MCB

handswitch.

(1-CP005 or 1-CP007)

RX TRIP

b. IF the Reactor Trip Breakers will
NOT open, THEN insert control rods
manually AND

b.1. CPEN 480V LC Feeder Breakers for
IK1 AND IL1.

(1-CP010)

13.8KV AUX BUS IG

FDR BKR TO XFMR

IK1, IL2, & IP

13.8KV AUX BUS IH

FDR BKR TO XFMR

IL1, IL2, & IS

b.2. WHEN Control Rods are on bottom,
THEN CLOSE 480V LC Feeder
Breakers for IK1 and IL1.



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CONTINGENCY ACTION

[5] 2.0 VERIFY Turbine Trip:

2.1

All Turbine throttle and
governor valves closed.
PRI IND - MCB (1-CP007)
ALT IND - NONE

THROT VLV
POSIT
TV-1
TV-2
TV-3
TV-4

GOV VLV
POSIT
GV-1
GV-2
GV-3
GV-4

a. TRIP the Turbine from MCB. IF
Turbine trips, THEN GO to
Step 3.0.

(1-CP007)
TURB TRIP

b. IF Turbine will NOT trip from the
MCB, THEN:

b.1. TRIP the EH Control Oil pumps AND
PLACE in "Pull to Lock".
(1-CP007)

EH C SPLY PUMP 11
EH C SPLY PUMP 12

c. Manually run back turbine at
maximum rate from Turbine Control
Panel.

(1-CP007)

c.1. IF Turbine can NOT be run back,
THEN CLOSE the MSIVs and MSIBs.

(S/G 1A) 1-MS-FSV-7414 MSIV
1-MS-FV-7412 MSIB

(S/G 1B) 1-MS-FSV-7424 MSIV
1-MS-FV-7422 MSIB

(S/G 1C) 1-MS-FSV-7434 MSIV
1-MS-FV-7432 MSIB

(S/G 1D) 1-MS-FSV-7444 MSIV
1-MS-FV-7442 MSIB



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CONTINGENCY ACTION

[S] 3.0

CHECK AFW pumps running.
PRI IND - MCB (1-CP006)
ALT IND - ERFDADS (AF)

3.1

CHECK Motor Driven AFW
pumps - running.

AFW PUMP 11
AFW PUMP 12
AFW PUMP 13

START Motor Driven AFW pumps.

3.1.1

CHECK valves for
running pumps - open.
(S/G 1A)

1-AF-MOV-0048 - OCIV
1-AF-FV-7525 - AFW REG
(S/G 1B)
1-AF-MOV-0065 - OCIV
1-AF-FV-7524 - AFW REG
(S/G 1C)
1-AF-MOV-0085 - OCIV
1-AF-FV-7523 - AFW REG

Manually OPEN valves.

3.2

CHECK steam supply to AFW
Pump 14 - open.

OPEN steam supply to AFW Pump 14.

MN STM ISOL
1-MS-MOV-0143

TURB TRIP/THROT
1-MS-MOV-0514

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CONTINGENCY ACTION

3.2.1

CHECK valves for AFW
Pump i4 - open.
(S/G ID)

1-AF-MOV-0019 - OCIV

1-AF-FV-7526 - AFW REG

Manually OPEN valves.



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[P] 4.0 INITIATE Emergency Boration until Extended Range NI indicates <5% power AND SUR is zero OR negative.

PRI IND - QDPS(S)
ALT IND - MCB(1-CP018)
ERFDADS(S)
EXTENDED RANGE

a. IF Emergency Boration can NOT be initiated, THEN transfer the Charging pump suction to the RWST. (1-CP004)

a.1. VERIFY at least one Centrifugal Charging pump is running.
CHARGING PUMP 1A
CHARGING PUMP 1B

a.2. OPEN the RWST outlet to Charging pump suction.
RWST ISOL 1-CV-MOV-0112C
RWST ISOL 1-CV-MOV-0113C

4.1 VERIFY at least one Centrifugal Charging pump is running.
(1-CP004)
CHARGING PUMP 1A
CHARGING PUMP 1B

a.3. VERIFY the Charging pumps' discharge isolations are open.
(1-CP004)
DISCH ISOL
1-CV-MOV-8377A
1-CV-MOV-8377B

a.4. OPEN the Charging flow control valve for maximum flow.

CHG FLOW CONT
1-CV-FCV-0205

4.2 VERIFY the Charging pumps' discharge isolations are open.
(1-CP004)
DISCH ISOL
1-CV-MOV-8377A
1-CV-MOV-8377B

CON'T ON NEXT PAGE



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CONTINGENCY ACTION

- 4.3 START one (1) Boric Acid
Transfer pump.
(1-CP004)
BA PUMP 1A
BA PUMP 1B
- 4.4 OPEN the Alternate
Boration Isolation.
(1-CP004)
ALT BORATION ISOL
1-CV-MOV-0218
- 4.5 OPEN either Charging
flowpath Isolation.
(1-CP004)
LOOP 1A ICIV LOOP 1C ICIV
1-CV-MOV-0003 1-CV-MOV-0006
- 4.6 OPEN Charging flow control
valve.
(1-CP004)
CHG FLOW CONT
1-CV-FCV-0205
- 4.7 VERIFY >30 gpm Alternate
Boration flow.
(1-CP004)
ALT BORATE FLOW
1-CV-FI-0120A



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CONTINGENCY ACTION

[P]___5.0

CHECK PRZR PRESS - < 2335

psig.

PRI IND - MCB(1-CP004)

ALT IND - QDPS(RCS-2)

ERFDADS(8122)

PRESS

1-RC-PI-0455

1-RC-PI-0456

1-RC-PI-0457

1-RC-PI-0458

PERFORM the following:

a. VERIFY PRZR PORVS AND ISOL VLVs -
Open.

PRI IND - MCB(1-CP004)

ALT IND - ERFDADS (8102)

ISOL

1-RC-MOV-0001A

1-RC-MOV-0001B

PORV

1-RC-PCV-0655A

1-RC-PCV-0656A

a.1. IF NOT, THEN OPEN PORV ISOL VLVs
AND PORVS as necessary until PRZR
PRESS < 2335 psig.

b. VERIFY CNTMT VENT ISOL. - Closed

PRI IND - MCB(1-CP022)

ALT IND - ERFDADS (4103, 4104)

CNTMT PURGE

NORMAL

SPLY ISOL DMFR

1-HC-MOV-0007

1-HC-MOV-0008

EXH ISOL DMFR

1-HC-MOV-0010

1-HC-MOV-0009

SUPPL

SPLY ISOL DMFR

1-HC-FV-9776

1-HC-MOV-0003

EXH ISOL DMFR

1-HC-FV-9777

1-HC-MOV-0005

b.1. IF Containment Ventilation
Isolation has not occurred, THEN
manually initiate AND VERIFY the
above dampers close.

(1-CP005)

CIA/CVI



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[F5S] 6.0 CHECK if the following Trips
have occurred:

6.1 Reactor Trip and Bypass
Breakers are Open.

(1-CP005)

R_NORM
S_NORM
R_BYE
S_BYE

DISPATCH RPO to locally open the Reactor
Trip and Bypass Breakers.
(EAB EL 60', Room 323)

REACTOR TRIP BREAKER R
REACTOR TRIP BREAKER S
BYPASS BREAKER R
BYPASS BREAKER S

6.2 Turbine throttle and
governor valves are
closed.

(1-CP007)

THROT VLV GOV VALVE
POSIT POSIT
TV-1 GV-1
TV-2 GV-2
TV-3 GV-3
TV-4 GV-4

DISPATCH RPO to locally trip the
Turbine at the governor pedestal.
(TGB EL 68', South end of HP turbine)



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[S] 7.0

CHECK S/G levels.

PRI IND - MCB(1-CP006)

ALT IND - QDPS(H)

ERFDADS(H)

7.1

N/R level in at least
one S/G > 5% [21%
adverse CNTMT].

SG LVL

(S/G 1A) (S/G 1B)

1-FW-LI-0519 1-FW-LI-0529

1-FW-LI-0571 1-FW-LI-0572

(S/G 1C)

(S/G 1D)

1-FW-LI-0539 1-FW-LI-0549

1-FW-LI-0573 1-FW-LI-0574

a. PERFORM the following:

(1-CP006)

a.1. VERIFY total AFW flow > 1100 gpm.

FLOW

(S/G 1A) 1-AF-FI-7525

(S/G 1B) 1-AF-FI-7524

(S/G 1C) 1-AF-FI-7523

(S/G 1D) 1-AF-FI-7526

a.2. IF total AFW flow is < 1100 gpm,
THEN START AFW pumps AND ALIGN
valves as necessary.

a.2.a. OPEN the valves for the pumps
started:

(S/G 1A)

1-AF-MOV-0048 - OCIV

1-AF-FV-7525 - AFW REG

(S/G 1B)

1-AF-MOV-0065 - OCIV

1-AF-FV-7524 - AFW REG

(S/G 1C)

1-AF-MOV-0085 - OCIV

1-AF-FV-7523 - AFW REG

(S/G 1D)

1-AF-MOV-0019 - OCIV

1-AF-FV-7526 - AFW REG

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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

7.2 CONTROL AFW flow to
maintain S/G N/R levels
between 5% [21% adverse
CNTMT] and 50%.
(1-CP006)
FLOW
(S/G 1A) 1-AF-FI-7525
(S/G 1B) 1-AF-FI-7524
(S/G 1C) 1-AF-FI-7523
(S/G 1D) 1-AF-FI-7526



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[P] 8.0

VERIFY all dilution paths
are isolated.
PRI IND - MCB(1-CP004)
ALT IND - NONE

8.1

VERIFY Letdown
demineralizer is
bypassed - VCT light is
ON.

PLACE Letdown demineralizer bypass
valve, TCV-0143, in the VCT position.
VCT

DIVERT

1-CV-TCV-0143

8.2

STOP Reactor Makeup water
pumps AND PLACE IN "Pull
to Lock".

RMW PUMP 1A
RMW PUMP 1B

8.3

VERIFY BTRS is bypassed.
DEMIN OUTL TO VCT - Open
1-CV-FV-3127

DEMIN OUTL TC
BTRS - Closed
1-CV-FV-3381

BYPASS BTRS by placing BTRS BYPASS CONT
in BYPASS.



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[P] 9.0

CHECK for reactivity
insertion from uncontrolled
RCS cooldown.

STOP any controlled cooldown AND GO to
Step 13.0.

9.1

RCS temperatures -
Decreasing in an
uncontrolled manner.
PRI IND - QDPS(RCS-3)
ALT IND - MCB (1-CP018)
ERFDADS (8123)

LOOP TEMP

1-RC-TR-0413 (Loop 1)
1-RC-TR-0423 (Loop 2)
1-RC-TR-0433 (Loop 3)
1-RC-TR-0443 (Loop 4)

OR

9.2

Any S/G pressure -
Decreasing in an
uncontrolled manner.
PRI IND - MCB(1-CP006)
ALT IND - QDPS(SEC-2)
ERFDADS(3022)

STM PRESS

(S/G 1A) 1-MS-PI-0514
1-MS-PI-0515
(S/G 1B) 1-MS-PI-0524
1-MS-PI-0525
(S/G 1C) 1-MS-PI-0534
1-MS-PI-0535
(S/G 1D) 1-MS-PI-0544
1-MS-PI-0545



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[S]___10.0 CHECK MSIVs and MSIBs -
Closed.
PRI IND - MCB(1-CP006)
ALT IND - ERFDADS (MS)
(S/G 1A)
1-MS-FSV-7414 - MSIV
1-MS-FV-7412 - MSIB

(S/G 1B)
1-MS-FSV-7424 - MSIV
1-MS-FV-7422 - MSIB

(S/G 1C)
1-MS-FSV-7434 - MSIV
1-MS-FV-7432 - MSIB

(S/G 1D)
1-MS-FSV-7444 - MSIV
1-MS-FV-7442 - MSIB

CLOSE MSIVs and MSIBs.



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

[S] ___ 11.0 IDENTIFY faulted S/G(s):

___ 11.1 CHECK pressure in all
S/G(s):

GO to Step 13.0.

___ 11.1.1 Any S/G pressure
decreasing in an
uncontrolled manner.

OR

___ 11.1.2 Any S/G completely
depressurized.



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

12.1

CLOSE FW Isolation valves
on faulted S/G(s).

(S/G 1A)

1-FW-FV-7141 - FWIV

1-FW-FV-7148A - FWIB

(S/G 1B)

1-FW-FV-7142 - FWIV

1-FW-FV-7147A - FWIB

(S/G 1C)

1-FW-FV-7143 - FWIV

1-FW-FV-7146A - FWIB

(S/G 1D)

1-FW-FV-7144 - FWIV

1-FW-FV-7145A - FWIB

a. IF faulted S/G FW Isolation valves
can NOT be closed, THEN CLOSE FW
CONT VLV and FW CONT BYP VLV.

NORM

(S/G 1A) 1-FW-FV-0551

(S/G 1B) 1-FW-FV-0552

(S/G 1C) 1-FW-FV-0553

(S/G 1D) 1-FW-FV-0554

LOW PWR

1-FW-FV-0551A

1-FW-FV-0552A

1-FW-FV-0553A

1-FW-FV-0554A

b. IF faulted S/G FW CONT and BYP
valves can NOT be closed, THEN
CLOSE 11A and 11B FW HTR Outlet
valves and bypass valve.

(1-CP008)

1-FW-MOV-0106 - FW HTR 11A OUTLET

1-FW-MOV-0107 - FW HTR 11B OUTLET

1-FW-MOV-0108 - BYPASS

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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

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*
* Reaching Step 12.2 Contingency Action
* represents a potential GENERAL EMERGENCY
* according to OEPP01-ZA-0001, EMERGENCY
* CLASSIFICATION.
*

CAUTION

-----12.2

CLOSE AFW ISOL VLVs on
faulted S/G(s).

(S/G 1A)

1-AF-MOV-0048 - OCIV

(S/G 1B)

1-AF-MOV-0065 - OCIV

(S/G 1C)

1-AF-MOV-0085 - OCIV

(S/G 1D)

1-AF-MOV-0019 - OCIV

-----12.3

IF S/G 1D is the faulted
S/G, THEN CLOSE steam
supply valve to turbine
driven AFW Pump 14.

MN STM ISOL

1-MS-MOV-0143.

CON'T ON NEXT PAGE

IF AFW ISOL valves on faulted S/G can
NOT be closed, THEN DISPATCH RPO to
UNLOCK and CLOSE AFW Manual Block VLVs
in IVC Elev. 22'.

(S/G 1A) 1-AF-0043 - Room 103
(S/G 1B) 1-AF-0061 - Room 102
(S/G 1C) 1-AF-0080 - Room 101
(S/G 1D) 1-AF-0014 - Room 104



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ACTION / EXPECTED RESPONSE

CONTINGENCY ACTION

12.6

VERIFY S/G PORV for
faulted S/G - Closed.
PRI IND - MCB(1-CF006)
ALT IND - QDPS(SEC-2)
ERFDADS (MS)
PORV
(S/G 1A) 1-MS-PV-7411
(S/G 1B) 1-MS-PV-7421
(S/G 1C) 1-MS-PV-7431
(S/G 1D) 1-MS-PV-7441

IF faulted S/G PORV can NOT be closed,
THEN DISPATCH RPO to unlock and
close PORV Manual Block VLV in IVC
EL 58' 6".
(S/G 1A) 1-MS-0021 - Room 503
(S/G 1B) 1-MS-0038 - Room 502
(S/G 1C) 1-MS-0055 - Room 501
(S/G 1D) 1-MS-0072 - Room 504



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CAUTION
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Boration should continue to obtain adequate
shut down margin during subsequent actions.

[P]___13.0 VERIFY RX Subcritical on
Extended Range NI's.
PRI IND - QDPS (S)
ALT IND - MCB(1-CP018)
ERFDADS(S)
EXTENDED_RANGE

a. CONTINUE to Borate.

b. IF Boration is NOT available, THEN
ALLOW RCS to heat up.

c. PERFORM actions of other Function
Restoration Procedures in effect
which do NOT cooldown OR otherwise
add positive reactivity to the
reactor core.

d. RETURN to Step 4.0.

---13.1 < 5% Power.

---13.2 Startup Rate - Negative.

[P]___14.0 IF 480V LC IK1 and IL1 were
deenergized, THEN DISPATCH
TGB and AUX RPOs to restore
loads as per Addendum 3.

[P]___15.0 RETURN to procedure and
step, in effect.



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ADDENDUM 3
ALTERNATE REACTOR TRIP-RESTORATION
OF ELECTRICAL LOADS

CUBICLE

480V LOAD CENTER IK1

POSITION

2E	480V MCC IK1 (9-E-PFAC-01)	CLOSED
3E	MECHANICAL AUX BLDG MAIN EXHAUST FAN (11B)	PER S.S. DIRECTION
3F	FUEL HANDLING BLDG HEATING COIL	PER S.S. DIRECTION
4D	MAB CHILLED WATER PUMP (11B)	PER S.S. DIRECTION
4E	MAB CHILLED WATER PUMP (11D)	PER S.S. DIRECTION
4F	RCB NORMAL PURGE SUPPLY FAN (11B)	PER S.S. DIRECTION

480V LOAD CENTER IL1

1E	HOT MACHINE SHOP DIST PNL	PER S.S. DIRECTION
2E	LAUNDRY RM DIST PNL DP1001	PER S.S. DIRECTION
3E	MECHANICAL AUX BLDG MAIN EXHAUST FAN (11C)	PER S.S. DIRECTION
3F	REACTOR COOLANT PURIFICATION PUMP (11A)	PER S.S. DIRECTION
4D	EAB AIR HANDLING UNIT HEATING COIL	PER S.S. DIRECTION
4E	REACTOR BLDG POLAR CRANE	OPEN
4F	480V MCC IL2 (9-E-PFAF-01)	CLOSED

480V LOAD CENTER IJ1

1E	480V MCC-1J3 (9-E-PFAT-01)	CLOSED
2E	480V MCC-1J1 (9-E-PFAA-01)	CLOSED
3E	RCB NORMAL PURGE SUPPLY FAN (11A)	PER S.S. DIRECTION
3F	NORMAL PURGE SUPPLY HEATING COIL	PER S.S. DIRECTION
4E	EAB AIR HANDLING UNIT HEATING COIL	PER S.S. DIRECTION
4F	RCB CHILLED WTR PUMP (11A)	PER S.S. DIRECTION



South Texas Project Electric Generating Station
EMERGENCY OPERATING PROCEDURES
RESPONSE TO NUCLEAR POWER GENERATION/ATWS

NO. 1PO05-
EO-FRSI

REV.

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ADDENDUM 3

ALTERNATE REACTOR TRIP-RESTORATION
OF ELECTRICAL LOADS

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CUBICLE

480V LOAD CENTER 1L2

POSITION

1B	EAB OUTSIDE AIR REHEAT COIL	PER S.S. DIRECTION
2B	480V MCC 1L4 (9-E-PFAY-01)	CLOSED
3B	MAB CHILLED WATER PUMP (11C)	PER S.S. DIRECTION
3C	RCB CHILLED WATER PUMP (11C)	PER S.S. DIRECTION
4A	FUEL HANDLING BLDG HEATING COIL	PER S.S. DIRECTION
4B	480V MCC 1L3 (9-E-PFAX-01)	CLOSED
4C	MECHANICAL AUX BLDG SUPPLY FAN	PER S.S. DIRECTION

480V LOAD CENTER 1P

3C	480V MCC 1J4 (9-E-PFAU-01)	CLOSED
4B	PRESSURIZER HEATER GROUP D - DIST PNL	PER S.S. DIRECTION
4C	480V MCC 1L1 (9-E-PFAE-01)	CLOSED

480V LOAD CENTER 1S

3C	480V MCC 1J2 (9-E-PFAB-01)	CLOSED
4B	480V MCC 1S1 (9-E-PFBA-01)	CLOSED
4C	RCFC CHILLED WATER PUMP (11B)	PER S.S. DIRECTION
4D	LOCKER ROOM/OFFICE SUPPLY FAN	PER S.S. DIRECTION
5B	LOCKER RM MISC OFFICE & LAB AHU	PER S.S. DIRECTION