

Effective Date 3/5/10

**CATEGORY II**

**ACTS OF NATURE**

**ALARMS**

- SEISMIC MON PNL C673 **C6 – C4**
- COMPUTER POINT IN ALARM **A2 – F5**

**INDICATIONS**

- Seismic trigger (Target Flag is white).
- Activation of Seismic Response Spectrum Annunciator.
- Alarm light (Amber) on the Seismic Switch Power Supply is lit.
- Sustained High Winds from the South / Southeast with little or no rain.
- Hurricane OR Tropical storm watch for Salem County.
- Hurricane OR Tropical storm warning for Salem County.
- Coastal flood warning for Salem County.
- High wind warning for Salem County (sustained winds greater than 40 MPH for 1 hour OR gusts greater than 58 MPH).
- Tornado warning for Salem County.
- Observation of severe weather conditions.
- Tide Level is anticipated to reach T/S Limit of 95 feet.
- Snowfall projected to be greater than 12 inches AND snowing on site.

Date/Time TERMINATED: \_\_\_\_\_

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**IMMEDIATE OPERATOR ACTIONS**

**NONE**

**AUTOMATIC ACTIONS**

**NONE**

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**LIST OF CONDITIONS**

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A. Delaware River level is expected to reach 95 feet..... 7

B. Delaware River level  $\geq 95'$  ..... 7

C. Delaware River level IS anticipated to reach 99.5'..... 7

D. Delaware River level  $> 99.5$ ..... 7

E. A Seismic Event has occurred ..... 9

F. Seismic Event EXCEEDS the allowable Operating Basis Earthquake (0.1g) ..... 9

G. Sustained South / Southeast High Winds ( $\geq 40$  mph) WITH LITTLE or NO rain for  $\geq 8$  Hours..... 9

H. A Hurricane OR Tropical Storm WATCH is issued for the area ..... 11

I. Hurricane, Tropical storms, OR Coastal flood WARNINGS are issued for the area ..... 11

J. A Severe Thunder Storm, High winds OR Tornado Warning has been issued for the area ..... 13

K. A Tornado has struck the plant ..... 15

L. Weather is extremely cold ..... 15

M. Heavy snowfall is forecast for the area ..... 17

**ADDITIONAL INFORMATION:**

**NOTES:**

1. Once the Watertight Doors have been closed for T/S 3.7.3, they may be opened for short periods of time for personnel access. If a Door is required to be open for an extended period of time, the time the door is open SHALL be RECORDED in the control room logs. The following criteria has been established for operating these doors:  
**[PR 980615190]**
  - Operations Department personnel SHALL operate Watertight Doors with air bladders.
  - Operations OR Radwaste Department personnel SHALL operate Watertight Doors that are locked.
  - Any personnel MAY operate all other Watertight Doors.

Procedures:

- HC.OP-DL.ZZ-0026(Q), Surveillance Log.
- HC.OP-SO.FA-0001(Z), Auxiliary Steam System Operation.
- HC.OP-SO.JE-0001(Q), Diesel Fuel Oil Storage and Transfer System Operation
- HC.OP-IO.ZZ-0004(Q), Shutdown From Rated Power To Cold Shutdown.
- HC.CH-SO.AX-0001(Q), Hydrogen/Oxygen Injection System Operation
- HC.OP-SO.KJ-0001(Q), Emergency Diesel Generator Operation
- OP-AA-108-111-1001, Severe Weather And Natural Disaster Guidelines

**SUBSEQUENT OPERATOR ACTIONS**

CONDITION	ACTION
A. Delaware River level is expected to reach 95 feet.  Date/Time: _____ <b>[T/S 3/4.7.3]</b>	<p style="text-align: center;"><b>**NOTE 1**</b></p> ___ A.1 <b>CLOSE</b> all Watertight Perimeter Doors IAW Attachment 2.  ___ A.2 <b>ENSURE</b> that doors 3315B <u>AND</u> 3331B are LOCKED CLOSED. <b>REFER</b> to Attachment 4.
B. Delaware River level ≥ 95'.  Date/Time: _____ <b>[T/S 4.7.3.c]</b>	___ B.1 <b>MONITOR</b> tide level at least once each Hour <u>AND</u> <b>RECORD</b> on DL.ZZ-0026 (Q); Attachment 3k. <b>[CD-190Y, 259Y, 261Y, 387Y]</b>  ___ B.2 <b>REFER</b> to OP-AA-108-111-1001
C. Delaware River level IS anticipated to reach 99.5'          Date/Time: _____ <b>[T/S 3.7.3]</b>	___ C.1 <b>REFER</b> to OP-AA-108-111-1001 C.2 <b>DIRECT</b> Chemistry to perform the following: (HC.CH-SO.AX-0001) <b>[CD-535G]</b> <ul style="list-style-type: none"> <li>___ ● <b>REMOVE</b> Hydrogen Tube Trailers from site.</li> <li>___ ● <b>VENT</b> the LOX Tank.</li> </ul> ___ C.3 <b>FILL</b> EDG Fuel Oil (JE) and Lube Oil (KJ) if necessary. <b>[CD409Y]</b>  ___ C.4 <u>IF</u> HWCI is secured for tube trailer removal, <u>THEN INSTRUCT</u> I&C to reduce MSL Rad Monitor set points.
D. Delaware River level > 99.5          Date/Time: _____ <b>[T/S 3.7.3]</b> <b>[CD-260Y]</b>	___ D.1 <b>COMMENCE</b> a unit shutdown IAW IO-0004. ___ D.2 <b>SHUTDOWN</b> the Auxiliary Boilers. (FA) ___ D.3 <b>BE</b> in at least HOT SHUTDOWN within the next 12 hours. ___ D.4 <b>BE</b> in COLD SHUTDOWN within the following 24 hours. ___ D.5 <u>IF</u> River Level exceeds 102 feet <u>THEN CHECK</u> Watertight Perimeter Doors every 30 minutes <u>AND RECORD</u> results on Attachment 2.

**NOTES:**

2. Seismic Events of  $\geq 0.01$  gs but  $< 0.1$  gs IN PROGRESS would be indicated by the following:

- Amber SMA-3 EVENT ALARM light should be illuminated.
- SMA-3 EVENT INDICATOR should be white.
- 5 SMA-3 Tape Machines should be recording.
- Amber ALARM light on the Seismic Switch Power Supply drawer should be extinguished.

Seismic Events of  $\geq 0.01$  gs but  $< 0.1$  gs that HAVE OCCURRED but are no longer in progress would be indicated by the following:

- Amber SMA-3 EVENT ALARM light extinguished.
- 5 SMA-3 Tape Machines should be advanced but not running.
- SMA-3 EVENT INDICATOR should be white.
- Amber ALARM light on the Seismic Switch Power Supply drawer should be extinguished.

Seismic Events of  $\geq 0.1$  gs IN PROGRESS or that HAVE OCCURRED would be indicated by the above indications. In addition:

- Amber ALARM light on the Seismic Switch Power Supply drawer should be illuminated
- Activation of Seismic Annunciator C6-C4

**ADDITIONAL INFORMATION:**

Procedures:

- HC.OP-SO.SG-0001(Q), Seismic Instrumentation System Operation
- HC.OP-IO.ZZ-0004(Q), Shutdown From Rated Power To Cold Shutdown.

**SUBSEQUENT OPERATOR ACTIONS** (continued)

CONDITION	ACTION
<p>E. A Seismic Event has occurred.</p> <p>Date/Time: _____</p>	<p>___ E.1 <b>TERMINATE</b> activities on the Refuel Floor <u>AND</u> all Dry Cask Storage activities.</p> <p style="text-align: center;"><b>**NOTE 2**</b></p> <p>___ E.2 <b>DETERMINE</b> the Seismic Event Level IMMEDIATELY following a Seismic Event by comparing the measured response spectra to the Operating Basis Earthquake (0.1g). (SG) <b>[CD-215Y, FSAR 3.7.4.4]</b></p> <p>___ E.3 Thoroughly <b>INSPECT</b> systems essential for safe shutdown.</p> <p>___ E.4 <b>MAKE</b> a visual inspection of the plant to ensure structural integrity.</p> <p>___ E.5 <b>VERIFY</b> that the Security System is intact.</p> <p>___ E.6 <b>INSPECT</b> the loaded Spent Fuel Storage Casks including temperature monitoring system at ISFSI.</p>
<p>F. Seismic Event EXCEEDS the allowable Operating Basis Earthquake (0.1g).</p> <p>Date/Time: _____</p> <p><b>[FSAR 3.7.4.4]</b></p>	<p>___ F1 <b>COMMENCE</b> a Unit Shutdown IAW IO.ZZ-0004.</p>
<p>G. Sustained South / Southeast High Winds (≥ 40 mph) <u>WITH</u> LITTLE or NO rain for ≥ 8 Hours.</p> <p>Date/Time: _____</p>	<p>___ G.1 <b>CONTACT</b> <u>AND</u> <b>DIRECT</b> T&amp;D and the System Engineer to <b>INSPECT</b> the switchyard for excessive salt accumulation/contamination.</p>

**NOTES:**

3. The evaluation should consider placing the Reactor in a shutdown condition 2 hours prior to the anticipated high wind arrival. This action allows the removal of decay heat to the main condenser for a two hour period prior to the high winds arriving (approximately 60% of the energy generated in the first four hours following shutdown). This reduces the amount of decay heat required to be removed should a Station Blackout occur. Performing an early shutdown also allows many air operated valve operations necessary for decay heat removal following shutdown to be operated while air compressors are available. These operations would result in fewer air operated valve operations in a station blackout and longer coping capability involving air compressors. Any plans for shutting down the plant should be communicated and coordinated with Salem Control Room and the System Operator.
4. SACS SSWS "Overland Express" discharge piping has been analyzed for wind loading up to 108 mph but has NOT been analyzed for missiles generated by high winds. Automobiles weighing <4000 lbs could become missiles and should be removed from the ½ mile frontal radius of the discharge piping. IF the discharge piping can be removed prior to the high winds affecting the site, THEN no further action is necessary.

**ADDITIONAL INFORMATION:**

Procedures:

- HC.OP-IO.ZZ-0004(Q), Shutdown From Rated Power To Cold Shutdown.
- OP-AA-108-111-1001, Severe Weather And Natural Disaster Guidelines
- HC.OP-AB.ZZ-0135(Q), Station Blackout /Loss Of Offsite Power/Diesel Generator Malfunction.
- HC.CH-SO.AX-0001(Q), Hydrogen/Oxygen Injection System Operation
- OP-AA-101-112-1002), ON-LINE RISK ASSESSMENT
- HC.OP-DL.ZZ-0026(Q), Surveillance Log.

**SUBSEQUENT OPERATOR ACTIONS (continued)**

CONDITION	ACTION
<p>H. A Hurricane <u>OR</u> Tropical Storm WATCH is issued for the area.</p> <p>Date/Time: _____</p> <p><b>[PR 961218156]</b></p>	<p>___ H.1 <b>REVIEW</b> IO.ZZ-0004, <b>AND BE PREPARED</b> to Shutdown the Plant.</p> <p>___ H.2 <b>REVIEW</b> Station Blackout Abnormal.</p> <p>___ H.3 <b>REFER TO</b> OP-AA-108-111-1001.</p> <p>___ H.4 <b>CLOSE</b> doors on transformer cubicles <b>AND</b> electrical panels outside.</p> <p>___ H.5 <b>DIRECT</b> Chemistry to perform the following: (HC.CH-SO.AX-0001) <b>[CD-535G]</b></p> <p>___ <b>• REMOVE</b> Hydrogen Tube Trailers from site.</p> <p>___ H.6 <b>IF</b> HWCI is secured for tube trailer removal, <b>THEN INSTRUCT</b> I&amp;C to reduce MSL Rad Monitor set points.</p> <p>___ H.7 <b>PREPARE</b> to stop Dry Cask Storage (DCS) activities outside if a hurricane warning is issued.</p> <p>___ H.8 <b>REFER</b> to OP-AA-101-112-1002</p>
<p>I. Hurricane, Tropical storms, <u>OR</u> Coastal flood WARNINGS are issued for the area.</p> <p><b>[T/S 3.7.3 &amp; 4.7.3.b]</b></p> <p>Date/Time: _____</p> <p><b>[CD-387Y]</b></p>	<p>___ I.1 <b>TERMINATE</b> surveillance testing, EDG maintenance, <b>AND RESTORE</b> systems at the discretion of the SM. <b>[CD420D, CD223H]</b></p> <p style="text-align: center;"><b>**NOTE 3**</b></p> <p>___ I.2 <b>EVALUATE</b> placing the plant in Hot Shutdown.</p> <p>___ I.3 <b>CLOSE</b> all Watertight Perimeter Doors IAW Att. 2.</p> <p>___ I.4 <b>MONITOR</b> river level every 4 hours <b>AND RECORD</b> on DL.ZZ-0026 (Q); Attachment 3J.</p> <p>___ I.5 <b>CHECK</b> the doors once per shift, <b>AND RECORD</b> results on Attachment 2.</p> <p>___ I.6 <b>REFER TO</b> OP-AA-108-111-1001</p> <p>___ I.7 <b>STOP</b> all outside DCS activities.</p> <p>___ I.8 <b>REFER</b> to OP-AA-101-112-1002</p> <p style="text-align: center;"><b>**NOTE 4**</b></p> <p>___ I.9 <b>IF</b> SACS SSWS "Overland Express" discharge piping is installed, <b>PERFORM</b> the following:</p> <p>___ <b>• CONSIDER</b> declaring the affected SACS SSWS loop INOPERABLE.</p> <p>___ <b>• REMOVE</b> automobiles to a minimum distance of ½ mile from the discharge piping.</p>

**NOTES:**

4. SACS SSWS "Overland Express" discharge piping has been analyzed for wind loading up to 108 mph but has NOT been analyzed for missiles generated by high winds. Automobiles weighing <4000 lbs could become missiles and should be removed from the ½ mile frontal radius of the discharge piping. IF the discharge piping can be removed prior to the high winds affecting the site, THEN no further action is necessary.

**ADDITIONAL INFORMATION:**

Procedures:

- OP-AA-101-112-1002, ON-LINE RISK ASSESSMENT
- OP-AA-108-111-1001, Severe Weather And Natural Disaster Guidelines

**SUBSEQUENT OPERATOR ACTIONS (continued)**

CONDITION	ACTION
<p>J. A Severe Thunder Storm, High winds <u>OR</u> Tornado Warning has been issued for the area.</p> <p>Date/Time: _____</p>	<p>___ J.1 <b>TERMINATE</b> surveillance testing, EDG maintenance, and restore systems at the discretion of the SM. <b>[CD420D, CD223H]</b></p> <p>___ J.2 <b>MAKE</b> a page Announcement <b>AND LIMIT</b> outside activities.</p> <p>___ J.3 <b>REFER TO</b> OP-AA-108-111-1001</p> <p>___ J.4 <b>BE PREPARED</b> to stop DCS outside activities.</p> <p>___ J.5 <b>REFER</b> to OP-AA-101-112-1002. (<b>COORDNATE</b> storm preparation with Salem SM.)</p> <p style="text-align: center;"><b>**NOTE 4**</b></p> <p>J.6 <b>IF</b> SACS SSWS “Overland Express” discharge piping is installed, <b>PERFORM</b> the following:</p> <ul style="list-style-type: none"> <li>___ • <b>CONSIDER</b> declaring the affected SACS SSWS loop INOPERABLE.</li> <li>___ • <b>REMOVE</b> automobiles to a minimum distance of ½ mile from the discharge piping.</li> </ul>

**ADDITIONAL INFORMATION:**

**CAUTIONS :**

1. Inspection of Diesel FOST vent/flame arrestor and piping is required by USFAR Section 3.5.1.1. It is important to maintain the venting capability for the FOST's. If the vent line becomes blocked, then the fuel oil transfer pumps are capable of developing a vacuum in the FOST's as Diesel Fuel Oil is withdrawn. This vacuum may damage the Tanks, or impair the ability of the pumps to transfer Diesel Fuel Oil to the Day Tank.
2. The blind flange should be replaced OR repairs made to the Vents/Flame Arrestor AND piping prior to adding Diesel Fuel Oil to the FOST.

Procedures:

- HC.OP-SO.DA-0001(Q), Circulating Water System Operation.
- HC.OP-GP.ZZ-0003(Q), Station Preparations For Winter Operation.
- HC.OP-SO.QJ-0001(Q), Heat Tracing System Operation.

SUBSEQUENT OPERATOR ACTIONS (continued)

CONDITION	ACTION
<p>K. A Tornado has struck the plant.</p> <p>Date/Time: _____  <b>[FSAR 3.5.1.1]</b></p>	<p style="text-align: center;">★ <b>CAUTION 1</b> ★</p> <p>___ K.1 <b>IMMEDIATELY</b> after the Tornado has left the area, <b>INSPECT</b> the following for damage.</p> <ul style="list-style-type: none"> <li>• Diesel FOST Vents/Flame Arrestor</li> <li>• Diesel FOST Emergency Relief Valves</li> <li>• Diesel FOST Vent piping.</li> </ul> <p style="text-align: center;">★ <b>CAUTION 2</b> ★</p> <p>___ K.2 <b>IF</b> any of the above Equipment <b>IS DAMAGED</b>, <b>DIRECT</b> Mechanical Maintenance to open a spare 4 inch blank flange connection on the damaged Diesel FOST using Attachment 5.</p> <p>___ K.3 <b>INSPECT</b> Spent Fuel Storage Casks at ISFSI for vent blockage and temperature monitoring system damage if a tornado has struck the plant.</p> <p>___ K.4 <b>IF</b> any vents are blocked, have the material removed and for storage casks with damaged temperature monitoring systems, <b>ESTABLISH ALTERNATE MONITORING.</b></p>
<p>L. Weather is extremely cold.</p> <p>Date/Time: _____</p>	<p>___ L.1 <b>REFER</b> to GP.ZZ-0003</p> <p>___ L.2 <b>ENSURE</b> proper operation of the tank heaters <b>AND</b> the heat tracing, especially the RCIC &amp; HPCI suction lines (QJ).</p> <p>___ L.3 <b>PLACE</b> De-Icing in-service (DA) as necessary.</p> <p>___ L.4 <b>PLACE</b> exposed tanks on recirculation as necessary.</p> <p>___ L.5 <b>CLOSE</b> louvers and doors that might result in localized freezing if left open. (i.e., Boiler House, Service Water House, Switch Yard Control House, Asphalt Plant, Fire Pump House).  <b>(REFER TO</b> Attachment 3 for operating instructions for the exterior watertight doors at the Intake Structure.)</p> <p>___ L.6 <b>INCREASE</b> the frequency of routine Auxiliary Boiler inspections.</p>

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**SUBSEQUENT OPERATOR ACTIONS (continued)**

CONDITION	ACTION
<p>M. Heavy snowfall is forecast for the area Date/Time: _____ <b>[PR 960203075]</b></p>	<p>___ M.1 <b>VERIFY</b> Heating Systems are operating properly.</p> <p>___ M.2 <b>ENSURE</b> ventilation systems outside air intakes are <u>NOT</u> blocked, including those for:</p> <ul style="list-style-type: none"> <li>___ • Reactor Building.</li> <li>___ • Service Area.</li> <li>___ • Radwaste Building.</li> <li>___ • Turbine Building.</li> </ul> <p>___ M.3 Periodically <b>ADVANCE</b> Roll Filter Media on affected ventilation systems, as necessary, <b>AND REMOVE</b> any snow accumulation to prevent plugging of the filter media.</p> <p>___ M.4 <b>MONITOR</b> the snow accumulation in the area of the Diesel Generator exhaust pipes each hour <u>WHEN</u> snowfall is &gt; 12 inches. <b>[CD-448Y]</b></p> <p>___ M.5 <b>SHOVEL</b> the snow from around the perimeter of the Diesel Generator exhaust pipes. <u>WHEN</u> snow accumulation reaches 36 inches.</p> <p>___ M.6 <b>SHOVEL</b> the snow from the exhaust boxes <u>WHEN</u> snow depth reaches 6 inches in the Diesel Exhaust. <b>[PR 970903134]</b></p> <p>___ M.7 <b>RECHECK</b> for DRIFTING snow around Diesel Generator exhaust pipes after snowfall has subsided.</p> <p>___ M.8 <b>CONSIDER</b> increased frequency monitoring <u>AND</u> <b>MONITOR</b> for snow accumulation near inlet vents of all Spent Fuel Storage Casks and <b>REMOVE</b> snow accumulated.</p>

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**COMPLETION AND REVIEW**

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**1.0 COMPLETION AND REVIEW**

- 1.1 **EXPLAIN** the entry Condition into the abnormal in the Comments Section. \_\_\_\_\_
  
- 1.2 **ANNOTATE** in the comments section all systems affected by the implementation of this procedure AND restoration actions (i.e. restoration line ups) completed/required. \_\_\_\_\_
  
- 1.3 **ATTACH** photocopies of any Hard Cards utilized as part of this procedure implementation to Attachment 1. \_\_\_\_\_
  
- 1.4 **ENSURE** the Exit time for any applicable conditions and this abnormal are annotated in the comment section AND the Control Room Logs. \_\_\_\_\_
  
- 1.5 **FORWARD** completed Portions of this procedure AND Sections 1 and 2 of Attachment 1 to SM/CRS for approval and Record Retention. \_\_\_\_\_

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**ATTACHMENT 1  
(Page 2 of 2)  
COMPLETION AND REVIEW**

**2.0 SIGNATURES:**

<u>Print Name</u>	<u>Initials</u>	<u>Signature</u>	<u>Date</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Completion of this attachment is annotated in the Control Room Logs:

_____	_____	_____ / _____
Printed Name	SIGNATURE	Date/Time

**3.0 SM/CRS FINAL REVIEW AND APPROVAL:**

3.1 This procedure and Attachment 1 have been reviewed for completeness and accuracy. Entry/Exit conditions and all deficiencies, including corrective actions, are clearly recorded in the COMMENTS Section above.

_____	_____	_____
Printed Name	SM/CRS	Date

**4.0 RECORDS**

4.1 **RETAIN** the following in accordance with RM-AA-101, Records Management Program:

- Procedure cover page
- Affected Conditions and Hard Cards performed
- Completion and Review section
- Attachment 1

**ATTACHMENT 2  
(Page 1 of 2)  
CLOSURE OF WATERTIGHT PERIMETER DOORS**

1. **NOTIFY** the following Personnel that Watertight Doors will be closed.  
AND all passage through these doors should be coordinated with the Operations Department:

- Security \_\_\_\_\_
- Site Protection. \_\_\_\_\_
- Plant Personnel (via Page announcement). \_\_\_\_\_

**NOTE**

The signs posted in Steps 2 and 3, informs personnel of the requirement to contact the Control Room prior to operating the door, maintaining administrative control.

2. **CLOSE AND POST** Signs on all Intake Structure doors on TABLE 1 within one hour. \_\_\_\_\_

3. **CLOSE AND POST** Signs on all Power Block doors on TABLE 2 within 1½ hours. \_\_\_\_\_

**TABLE 1**

INTAKE STRUCTURE DOORS

DATE: \_\_\_\_\_  
SHIFT: \_\_\_\_\_

LOCATION		DESCRIPTION	TIME DOORS CHECKED															
BAY 1	WTD 1	B & D PUMP ROOM																
BAY 1	WTD 8	SCREEN ROOM																
BAY 2	WTD 2 *	EMPTY																
BAY 2	WTD 7 *	SCREEN ROOM																
BAY 3	WTD 3	A & C PUMP ROOM																
BAY 3	WTD 6	SCREEN ROOM																
BAY 4	WTD 4 *	EMPTY																
BAY 4	WTD 5 *	SCREEN ROOM																

\* Doors in Bays 2 & 4 are NOT required per T/S Table 3.7.3-1; however, watertight doors in ALL Bays are to be closed within one hour.  
Reference NOTF / RFA 20211794.

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**ATTACHMENT 2  
(Page 2 of 2)**

**TABLE 2**

POWER BLOCK DOORS

DATE: \_\_\_\_\_  
SHIFT: \_\_\_\_\_

**DOOR BLDG. LOCATION/  
NUMBER (GRID LOCATION) NOTE 1 TIME DOORS CHECKED**

HATCH	RW 102', NORTH OVERHEAD (45; K)																			
S-13	RW 102', NORTH BARREL HATCH (45.5; L)																			
3340B	RW 102', NORTH EQUIP. HATCH (44; M)																			
3337B	RW 102', NORTH PERS. HATCH (44; Md)																			
6312	UNIT 2 102', NORTH PERS. HATCH (45.4; T)																			
6323B	UNIT 2 102', NORTH EQUIP. HATCH (45.4; U)																			
5315A	DIESEL BLDG. 102' WEST PERS. HATCH (29.9; X)																			
5315C	DIESEL BLDG. 102' WEST EQUIP. HATCH (29; X)																			
4323A	RX. BLDG. 102' SOUTH EQUIP. HATCH (13.6; U)																			
4304	RX. BLDG. 102' SOUTH PERS. HATCH (13.6; U)																			
3301A	AUX. BLDG. 102' SOUTH PERS. ENTRANCE (13.6; Md)																			
3305B	MAINT. SHOP 102' EQUIP HATCH (13.6; L)																			
3315B	TURB. TO RW 102' PERS. HATCH (25; H) <b>NOTES 2, 3 &amp; 4</b>																			
3329A	TURB. TO RW 102' EQUIP. HATCH (27; H) <b>NOTE 2</b>																			
3331B	RW TO ADMIN. 102' PERS. HATCH (35; H) <b>NOTES 2 &amp; 3</b>																			
3209A	TURB. TO RW 87' PERS. HATCH (26; H) <b>NOTE 2</b>																			

**NOTE 1** USE print A-0203-0-15 as reference for grid locations

**NOTE 2** Interior Doors

**NOTE 3** This watertight flood door is closed and locked. (Attachment 4) [UFSAR 3.4.1.1]

**NOTE 4** ENSURE 3315B is locked with the padlock and specially fabricated bracket that prevents the door from being operated. Lock and bracket are located in the Turbine Building on the 102' El. across from the BOP Sample Panel hanging from unistrut and uses a 2043 Master Lock key. [70020387]

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**ATTACHMENT 3  
OPERATION OF EXTERIOR WATERTIGHT MISSILE DOORS (TYPE C4)  
AT THE SERVICE WATER INTAKE STRUCTURE  
(Page 1 of 2)**

**NOTE**

Operation of the Door Pneumatic System is semiautomatic such that:

- WHEN the door is shut, the pins are latched, and the key switch and thumbscrew are in the “inflate” position, the handwheel is then locked by the Pneumatic System and the seals inflate. **[PR 970603061]**
- Either the thumbscrew (Interior side) or the key switch (Exterior side) will unlock the door at which time the handwheel will release, the seals will deflate, and the handwheel can be used to unlatch the door.

The thumbscrew and key switch “inflate” position is in the 6 and 12 o’clock position. The “deflate” position is in the 3 and 9 o’clock position. **[PR 970603061]**

**CLOSURE INSTRUCTIONS**

**[PR 970603061]**

- 1.0 **REMOVE** protective covers from the doors AND **CLEAR** any obstructions from the framed openings. \_\_\_\_\_
- 2.0 **VERIFY** the handwheel is in the full open position and the door pins are retracted. \_\_\_\_\_
- 3.0 **OPEN** bottle isolation valve. (Located under steps of respective Pmp Rm.) \_\_\_\_\_
- 4.0 **OPEN** P-KA-V9980 (V9981, V9982, V9983) INT STRUCT DOOR AIR ISLN. \_\_\_\_\_
- 5.0 **VERIFY** the air tank on the door is pressurized to approximately 65 - 75 psig. \_\_\_\_\_
- 6.0 IF the seals inflate at this time, THEN **ROTATE** the thumbscrew (Interior side) in either direction (Approx. 90°) UNTIL the seals deflate. \_\_\_\_\_
- 7.0 PRIOR to closing the door **PLACE** the thumbscrew (Interior side) in the “inflate” position. \_\_\_\_\_
- 8.0 **CLOSE** door AND **ROTATE** the handwheel in the "close" direction until rotation stops. (The seals will now inflate AND the door will lock automatically) \_\_\_\_\_
- 9.0 **VERIFY** the handwheel is locked. \_\_\_\_\_

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**ATTACHMENT 3**  
**OPERATION OF EXTERIOR WATERTIGHT MISSILE DOORS (TYPE C4)**  
**AT THE SERVICE WATER INTAKE STRUCTURE**  
**(Page 2 of 2)**

**OPENING INSTRUCTIONS**

- 1.0 **ROTATE** the thumbscrew (Interior side) OR key switch (Exterior side) in either direction (Approx. 90°) OR UNTIL rotation stops (The seals will now deflate AND the handwheel lock will release) [**PR 970603061**] \_\_\_\_\_
- 2.0 **ROTATE** the handwheel in the "open" direction until rotation stops AND THEN OPEN the door. \_\_\_\_\_
- 3.0 **CLOSE** the air isolation valve at the portable bottle. [**PR 970603061**] \_\_\_\_\_
- 4.0 **CLOSE** P-KA-V9980 (V9981, V9982, and V9983) INT STRUCT DOOR AIR ISLN. \_\_\_\_\_
- 5.0 **REPLACE** the door protective cover. \_\_\_\_\_

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**ATTACHMENT 4  
(Page 1 of 1)**

**LOCKING DOOR 3315B**

- 1. **REMOVE** Locking Device from wall south of door 3315A in the Turbine Bldg. \_\_\_\_\_
- 2. **ENSURE** the Door is CLOSED AND DOGGED. \_\_\_\_\_
- 3. **ENSURE** the handwheel is engaged. \_\_\_\_\_
- 4. **INSTALL** Bracket on the Rad Waste side of the Door. \_\_\_\_\_
- 5. **LOCK** the bracket in place with a padlock. \_\_\_\_\_

**LOCKING DOOR 3331B**

- 1. **REMOVE** Locking Device from the cage near door 3331B. \_\_\_\_\_
- 2. **ENSURE** the Door is CLOSED AND DOGGED. \_\_\_\_\_
- 3. **ENSURE** the handwheel is engaged. \_\_\_\_\_
- 4. **INSTALL** Bracket on the Radwaste side of the Door. \_\_\_\_\_
- 5. **LOCK** the bracket in place with a padlock. \_\_\_\_\_

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**ATTACHMENT 5  
(Page 1 of 1)**

**EMERGENCY VENTING OF DIESEL FUEL OIL STORAGE TANKS**

1. **OBTAIN** the following equipment required for removal of the 4” blind flange on the FOST:
  - ELSA (one per person) \_\_\_\_\_
  - Breaker Bar OR torque wrench (0-250 ft-lb) OR Equivalent \_\_\_\_\_
  - One 1-1/16” socket wrench. \_\_\_\_\_
  - One 1-1/16’ open end wrench OR Equivalent \_\_\_\_\_
  - A Fire Impairment is not required. \_\_\_\_\_
2. **LOCATE** the 4” flange identified as “E” on P&ID M-30-1 Sht. 1. This flange is the one used by Chemistry to obtain samples, which is located nearest to the end of the access grating walkway. [Refer to HC.CH-SA.ZZ-0001 (Z)] \_\_\_\_\_
3. **REMOVE** flange AND Flexitallic gasket from the FOST to establish an alternate vent path. \_\_\_\_\_
4. Care **should** be exercised to prevent any dirt OR debris from entering a FOST for the time period that a blind flange is removed. \_\_\_\_\_
5. **WHEN** repairs AND replacements are completed, THEN the blind flange should be reassembled using the torque requirements AND procedure described in HC.CH-SA.ZZ-0001 (Z). A new Flexitallic gasket shall be used for reassembly. \_\_\_\_\_

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- Packages and Affected Document Numbers incorporated into this revision:  
CP No. \_\_\_\_\_ CP Rev. \_\_\_\_\_ AD No. \_\_\_\_\_ Rev No. \_\_\_\_\_ None ✓
  - The following OPEX were incorporated into this revision: None
  - The following OTSCs were incorporated into this revision: None
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**REVISION SUMMARY**

70106939-0030

- Changes Action M.8 to consider increased frequency monitoring for snow accumulation.  
No actions have changed. This is an editorial change.