

50-302

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Rev. 27
Effective Date 7-24-97

INFORMATION ONLY

ANNUNCIATOR RESPONSE

AR-403

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

PSA H ANNUNCIATOR RESPONSE

APPROVED BY: Interpretation Contact

Frank Doherty for CWB
(SIGNATURE ON FILE)

DATE: 7/23/97

INTERPRETATION CONTACT: Manager Nuclear Plant Operations
Support

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1.0 PURPOSE

- 1.1 Establish a reference document for each Annunciator Window on the PSA-Z Lamp box.
- 1.2 Establish operator actions for valid Annunciator alarms on the PSA-Z Lamp box.
- 1.3 Establish a reference to other procedures which address operator actions for valid Annunciator alarms on the PSA-Z Lamp box.

2.0 REFERENCES

2.1 IMPLEMENTING REFERENCES

- 2.1.1 EOP, Emergency Operating Procedure
- 2.1.2 AP-250, Radiation Monitor Actuation
- 2.1.3 AP-1050, Flooding
- 2.1.4 CP-138, Secondary Water Chemistry Guidelines
- 2.1.5 OP-103B, Heat-Up Cooldown Curves
- 2.1.6 SP-146, EFIC Monthly Functional Test
- 2.1.7 OP-302, RC Pump Operation
- 2.1.8 OP-301, Operation Of The Reactor Coolant System
- 2.1.9 AP-470, Loss of Instrument Air
- 2.1.10 OP-408, Nuclear Services Cooling System
- 2.1.11 OP-505, Radiation Monitoring System
- 2.1.12 CP-152, Primary to Secondary Leakage Operating Guideline

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-224-048

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 PSA-Z Lamp box as indicated on Enclosure 1, Annunciator Response.

5.0 FOLLOW-UP ACTIONS

None

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
RADIATION
HIGH**

EVENT POINT 1752

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G3 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G3 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G3 MONITORS THE PRIMARY SAMPLE ROOM. THE DETECTOR IS LOCATED ON THE SOUTH WALL INSIDE THE PRIMARY SAMPLE ROOM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-23</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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GAMMA
RADIATION
HIGH

EVENT POINT 1754

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o RM-G4 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o RM-G4 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION.o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S).o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G4 MONITORS THE AUXILIARY BUILDING ENTRANCE HALLWAY. THE DETECTOR IS LOCATED ON THE WALL OPPOSITE THE PAX PHONE NEAR THE ENTRANCE TO THE INTERMEDIATE BUILDING. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-24</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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GAMMA
 RADIATION
 HIGH

EVENT POINT 1766

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G10 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G10 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G10 MONITORS THE MAKE-UP PUMP AREA. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE TO THE 'C' MAKE-UP PUMP (SOUTH ENTRANCE). THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-27</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
 RADIATION
 HIGH**

EVENT POINT 1770

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G12 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G12 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G12 MONITORS THE SPENT RESIN STORAGE TANK ROOM. THE DETECTOR IS LOCATED IN THE DECANT AND SLURRY PUMP ROOM JUST INSIDE THE LOCKED GATE ON THE WALL. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-28</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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GAMMA
RADIATION
HIGH

EVENT POINT 1772

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G13 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G13 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G13 MONITORS THE DECONTAMINATION PIT AREA. THE DETECTOR IS LOCATED ON THE 143' ELEVATION, CLOSE TO THE STAIRWELL BY THE ECSTs. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-28</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
RADIATION
HIGH**

EVENT POINT 1774

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G14 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G14 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G14 MONITORS THE SPENT FUEL STORAGE AREA. THE DETECTOR IS LOCATED ON THE 143' AB, ON THE WALL OF THE REACTOR BUILDING IN THE PASSAGEWAY TO THE SPENT FUEL SYSTEM FILTERS. THIS DETECTOR IS THE ONLY S.T.S. AREA MONITOR AND IS COMMONLY REFERRED TO AS THE "SPENT FUEL CRITICALITY MONITOR". THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-29</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
 RADIATION
 HIGH**

EVENT POINT 1780

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G17 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G17 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G17 MONITORS THE 119' ELEVATION OF THE REACTOR BUILDING. THE DETECTOR IS LOCATED ON THE STANCHION NEAR THE PERSONNEL HATCH. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-30</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
RADIATION
HIGH**

EVENT POINT 1782

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G18 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G18 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o VERIFY TRANSFER CANAL LEVEL AT DESIRED HEIGHT. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G18 MONITORS THE INCORE PIT AREA. THE DETECTOR IS LOCATED IN THE PIT ON THE 164' ELEVATION NEAR THE TRANSFER CANAL. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-31</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-01	H-01-01
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**GAMMA
RADIATION
HIGH**

EVENT POINT 1784

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G29/30 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G29/30 INDICATION ON HVAC SECTION OF MAIN CONTROL BOARD. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G29/30 ARE THE REACTOR BUILDING HIGH RANGE POST ACCIDENT MONITORS. THE DETECTORS ARE LOCATED ON THE TOP OF EACH 'D' RING AT THE 180' ELEVATION. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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GAMMA
MONITOR
WARNING

EVENT POINT 1749

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G1 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G1 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G1 INDICATION AT RADIATION MONITORING PANEL. o RM-G1 INDICATION AT DETECTOR. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G1 MONITORS THE CONTROL ROOM. THE DETECTOR IS ON THE BACK WALL NEXT TO THE ES RELAY ACTUATION CABINETS. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-22</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1757

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G5 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR, o RM-G5 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G5 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G5 MONITORS THE WASTE GAS TANK VALVE ALLEY. THE DETECTOR IS LOCATED ON THE WALL OPPOSITE THE WASTE GAS COMPRESSOR ROOM. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-24</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1759

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G6 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G6 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G6 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G6 MONITORS THE MAKEUP TANK VALVE ALLEY. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE LOCKED GATE. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-25</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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GAMMA
MONITOR
WARNING

EVENT POINT 1761

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G7 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G7 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G7 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G7 MONITORS THE RC BLEED TANK AREA. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE INSIDE THE LOCKED GATE ON THE 95' ELEVATION. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-25</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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GAMMA
MONITOR
WARNING

EVENT POINT 1763

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G8 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G8 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G8 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G8 MONITORS THE RC BLEED TANK AREA. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE INSIDE THE LOCKED GATE ON THE 119' ELEVATION. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-26</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1765

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G9 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G9 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G9 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G9 MONITORS THE PERSONNEL HATCH. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE INSIDE THE LOCKED GATE ON THE 119' ELEVATION. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-26</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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GAMMA
MONITOR
WARNING

EVENT POINT 1767

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G10 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G10 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G10 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G10 MONITORS THE MAKE-UP PUMP AREA. THE DETECTOR IS LOCATED ON THE WALL NEAR THE ENTRANCE TO THE 'C' MAKE-UP PUMP (SOUTH ENTRANCE). EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-27</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1771

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G12 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G12 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G12 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G12 MONITORS THE SPENT RESIN STORAGE TANK ROOM. THE DETECTOR IS LOCATED IN THE DECANT AND SLURRY PUMP ROOM JUST INSIDE THE LOCKED GATE. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-28</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1773

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G13 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G13 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G13 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G13 MONITORS THE DECONTAMINATION PIT AREA. THE DETECTOR IS LOCATED ON THE 143' ELEVATION, CLOSE TO THE STAIRWELL BY THE ECSTs. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-28</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1775

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G14 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G14 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G14 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G14 MONITORS THE SPENT FUEL STORAGE AREA. THE DETECTOR IS LOCATED ON THE 143' AB, ON THE WALL OF THE REACTOR BUILDING IN THE PASSAGEWAY TO THE SPENT FUEL SYSTEM FILTERS. THIS DETECTOR IS COMMONLY REFERRED TO AS THE "SPENT FUEL CRITICALITY MONITOR". THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-29</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
 MONITOR
 WARNING**

EVENT POINT 1779

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G16 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G16 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G16 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR, MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G16 MONITORS THE FUEL TRANSFER AREA. THE DETECTOR IS LOCATED ON THE MAIN FUEL BRIDGE AND MOVES WITH THE BRIDGE. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-30</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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GAMMA
MONITOR
WARNING

EVENT POINT 1781

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G17 RADIATION LEVEL EXCEEDS WARNING SETPOINT OR o RM-G17 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G17 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OF., MONITOR LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TRENDS INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G17 MONITORS THE 119' ELEVATION OF THE REACTOR BUILDING. THE DETECTOR IS LOCATED ON THE STANCHION NEAR THE PERSONNEL HATCH. EITHER WARNING SETPOINT EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-30</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-01-02	H-01-02
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**GAMMA
MONITOR
WARNING**

EVENT POINT 1785

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-G29/30 RADIATION LEVEL EXCEEDS WARNING SETPOINT(S) OR o RM-G29/30 RADIATION MONITOR(S) FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-G29/30 INDICATION ON HVAC SECTION OF MAIN CONTROL BOARD. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION OR MONITOR(S) LOW READING. o NOTIFY HEALTH PHYSICS TO MONITOR AFFECTED AREA(S). o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o VERIFY TRANSFER CANAL LEVEL AT DESIRED HEIGHT. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-G29/30 ARE THE REACTOR BUILDING HIGH RANGE POST ACCIDENT MONITORS. THE DETECTORS ARE LOCATED ON THE TOP OF EACH 'D' RING AT THE 180' ELEVATION. EITHER WARNING SETPOINT(S) EXCEEDED OR A DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
 RADIATION
 HIGH

EVENT POINT 1712

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A1 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A1 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO AP-250. o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A1 MONITORS THE REACTOR BUILDING PURGE EXHAUST DUCT. THREE DIFFERENT DETECTORS ARE USED, PARTICULATE, IODINE AND GAS. ANY ONE OF THESE CHANNELS CAN GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-16</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
RADIATION
HIGH

EVENT POINT 1715

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A2 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A2 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO AP-250. o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A2 MONITORS THE AUXILIARY BUILDING PURGE EXHAUST DUCT. THREE DIFFERENT DETECTORS ARE USED, PARTICULATE, IODINE AND GAS. ANY ONE OF THESE CHANNELS CAN GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-16</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
RADIATION
HIGH

EVENT POINT 1718

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A3 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A3 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO AP-250. o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A3 MONITORS AUXILIARY BUILDING EXHAUST FROM SAMPLE AREA 'D', THE WASTE GAS COMPRESSOR ROOM, THE WASTE GAS VALVE ALLEY, AND ADJOINING AREAS. THIS DETECTOR ONLY HAS A GAS CHANNEL. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-17</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
 RADIATION
 HIGH

EVENT POINT 1730

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A7 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A7 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A7 MONITORS THE AHF-44A/B DISCHARGE AIR, THEREFORE THE ATMOSPHERES OF THE PRIMARY SAMPLE ROOM, PRIMARY SAMPLE ROOM SAMPLE HOOD, RADIO CHEMISTRY LAB SAMPLE HOODS, AND/OR PASS SYSTEM VALVE ALLEY MAY HAVE HIGH GASEOUS ACTIVITY. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-19</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
RADIATION
HIGH

EVENT POINT 1733

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A8 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A8 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A8 MONITORS THE AUXILIARY BUILDING EXHAUST UPSTREAM OF THE PENETRATION FOR THE FUEL HANDLING FLOOR EXHAUST. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-19</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
RADIATION
HIGH

EVENT POINT 1736

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A11 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A11 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o IF WASTE GAS RELEASE IN PROGRESS, NOTIFY PRIMARY PLANT OPERATOR TO ENSURE WGDY RECYCLE VALVES AND RELEASE VALVE ARE CLOSED. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A11 MONITORS THE AUXILIARY BUILDING EXHAUST PENETRATION FOR THE WASTE GAS RELEASE PATH. THE WGDY RECYCLE VALVES ARE WDV 393/394/395 AND THE RELEASE VALVE IS WDV-439. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-20</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
RADIATION
HIGH

EVENT POINT 1738

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A12 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A12 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE. o MAIN STEAM LINE RAD MONITORS RMG-25, RMG-26, RMG-27, AND /OR RMG-28 READ HIGHER THAN NORMAL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP-06, STEAM GENERATOR TUBE RUPTURE. o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A12 MONITORS THE AUXILIARY BUILDING EXHAUST PENETRATION FOR SECONDARY PLANT CONDENSER OFF GAS. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-20</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-01	H-02-01
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ATMOSPHERIC
 RADIATION
 HIGH

EVENT POINT 1745

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A15 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A15 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A15 IS A PORTABLE MONITOR, NORMALLY LOCATED NEAR THE DECONTAMINATION PIT ON THE SPENT FUEL FLOOR. THIS MONITOR IS NOT NORMALLY ENERGIZED. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-22</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-02	H-02-02
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ATMOSPHERIC
MONITOR
WARNING

EVENT POINT 1716

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o RM-A2 RADIATION LEVEL EXCEEDS WARNING SETPOINT, ORo RM-A2 RADIATION MONITOR FAILED LOW
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o RM-A2 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION, OR LOW MONITOR READING.o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A2 MONITORS THE AUXILIARY BUILDING PURGE EXHAUST DUCT. THREE DIFFERENT DETECTORS ARE USED, PARTICULATE, IODINE AND GAS. ANY ONE OF THESE CHANNELS CAN GIVE THIS ALARM, EITHER WARNING SETPOINT EXCEEDED, OR DETECTOR FAILED LOW. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-16</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-02	H-02-02
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ATMOSPHERIC
MONITOR
WARNING

EVENT POINT 1734

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-A8 RADIATION LEVEL EXCEEDS WARNING SETPOINT, OR o RM-A8 RADIATION MONITOR FAILED LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-A8 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION, OR LOW MONITOR READING. o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A8 MONITORS THE AUXILIARY BUILDING EXHAUST UPSTREAM OF THE PENETRATION FOR THE FUEL HANDLING FLOOR EXHAUST. THIS DETECTOR ONLY HAS A GAS CHANNEL AND, EITHER WARNING SETPOINT EXCEEDED, OR DETECTOR FAILED LOW WILL GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-16</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-02	H-02-02
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ATMOSPHERIC
MONITOR
WARNING

EVENT POINT 1735

INDICATED CONDITION: <ul style="list-style-type: none">o RM-A8 RADIATION MONITOR PUMP FLOW ABOVE NORMAL <u>OR</u> LESS THAN 5 SCFM.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RM-A8 FLOW INDICATION AT RADIATION MONITORING PANEL.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF RADIATION PUMP FLOW PROBLEM.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
DISCUSSION: <p>RM-A8 MONITORS THE AUXILIARY BUILDING EXHAUST UPSTREAM OF THE PENETRATION FOR THE FUEL HANDLING FLOOR EXHAUST. THIS DETECTORS ONLY HAS A GAS CHANNEL AND, EITHER A HIGH OR LOW FLOW CAN GIVE THIS ALARM.</p>
REFERENCES: DRAWING 208-049-RM-08
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-02	H-02-02
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ATMOSPHERIC
MONITOR
WARNING

EVENT POINT 1737

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o RM-A11 RADIATION LEVEL EXCEEDS WARNING SETPOINT, ORo RM-A11 RADIATION MONITOR FAILED LOW
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o RM-A11 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION, OR LOW MONITOR READING.o OBSERVE AREA MONITORS/RECORDERS FOR TREND INFORMATION.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>RM-A11 MONITORS THE AUXILIARY BUILDING EXHAUST PENETRATION FOR THE WASTE GAS RELEASE PATH. THIS DETECTOR ONLY HAS A GAS CHANNEL AND, EITHER WARNING SETPOINT EXCEEDED, OR DETECTOR FAILED LOW CAN GIVE THIS ALARM. THE REDAS SYSTEM MAY ALSO BE USED TO OBSERVE TREND INFORMATION.</p>
<p>REFERENCES: DRAWING 208-049-RM-20</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-02	H-02-02
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ATMOSPHERIC
MONITOR
WARNING

EVENT POINT 1739

INDICATED CONDITION: <ul style="list-style-type: none">o RM-A12 RADIATION LEVEL EXCEEDS WARNING SETPOINT, ORo RM-A12 RADIATION MONITOR FAILED LOW
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RM-A12 INDICATION AT RADIATION MONITORING PANEL.o MAIN STEAM LINE RAD MONITORS RMG-25, RMG-26, RMG-27, AND/OR RMG-28 READ HIGHER THAN NORMAL.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF RADIATION MONITOR PROBLEM.o REFER TO OP-505, RADIATION MONITORING SYSTEM.o CHECK ARV-26/27 FOR PROPER POSITION (ARP-1A/1B 3-WAY VALVES)o REFER TO CP-152, PRIMARY TO SECONDARY LEAKAGE OPERATING GUIDELINE
DISCUSSION: <p>RM-A12 MONITORS THE AUXILIARY BUILDING EXHAUST PENETRATION FOR SECONDARY PLANT CONDENSER OFF GAS. THIS DETECTOR ONLY HAS A GAS CHANNEL AND, EITHER WARNING SETPOINT EXCEEDED OR DETECTOR FAILED LOW CAN GIVE THIS ALARM. CHECK FOR SUPPORTING INDICATIONS OF OTSC TUBE LEAKAGE.</p>
REFERENCES: DRAWING 208-049-RM-20
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-04	H-02-04
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EDAS
SYSTEM
TROUBLE

EVENT POINT 2045

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o LOSS OF MULTIPLEXER POWER.o PRIMARY METEOROLOGICAL TOWER ON BACKUP POWER.o PRIMARY METEOROLOGICAL TOWER BACKUP POWER OUT OF SYNCHRONIZATION.o PRIMARY METEOROLOGICAL TOWER SIGNAL FAILURE.o PRIMARY METEOROLOGICAL TOWER BUILDING TEMPERATURE HIGH/LOW.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o PRIMARY METEOROLOGICAL ALARM PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE CAUSE OF ALARM CONDITION.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-070-MM-01</p>
<p>SENSING ELEMENT: MMP-3 METEOROLOGICAL ALARM PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-05	H-02-05
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COND PUMP PIT
SUMP LEVEL
HIGH

EVENT POINT 1329

INDICATED CONDITION: <ul style="list-style-type: none">CONDENSATE PUMP PIT SUMP A LEVEL >88.6' ELEVATION AS SENSED BY SD-31-LS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">REFER TO AP-1050.NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF ALARM CONDITION.
DISCUSSION:
REFERENCES: DRAWING 208-072-SD-07
SENSING ELEMENT: SD-31-LS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-05	H-02-05
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**COND PUMP PIT
SUMP LEVEL
HIGH**

EVENT POINT 1317

INDICATED CONDITION: <ul style="list-style-type: none">CONDENSATE PUMP PIT SUMP B LEVEL >88.6' ELEVATION AS SENSED BY SD-32-LS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">REFER TO AP-1050.NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF ALARM CONDITION.
DISCUSSION:
REFERENCES: DRAWING 208-072-SD-08
SENSING ELEMENT: SD-32-LS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-06	H-02-06
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AUX BLDG
SUMP LEVEL
HIGH

EVENT POINT 1292

INDICATED CONDITION:

- o DECAY HEAT PIT SUMP A LEVEL >74' ELEVATION AS SENSED BY WD-133-LS.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

OPERATOR ACTIONS FOR A VALID ALARM:

- o NOTIFY PRIMARY PLANT OPERATOR TO INVESTIGATE CAUSE OF ALARM CONDITION.

DISCUSSION:

REFERENCES: DRAWING 208-060-WD-09

SENSING ELEMENT: WD-133-LS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-07	H-02-07
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**BLDG SUMPS
SUMP PUMP
TROUBLE**

EVENT POINT 1807

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o DIESEL GENERATOR ROOM 'B' SUMP LEVEL HIGH AS SENSED BY SD-20-LS.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o NOTIFY PRIMARY PLANT OPERATOR TO INVESTIGATE CAUSE OF HIGH LEVEL.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-072-SD-16.</p>
<p>SENSING ELEMENT: SD-20-LS</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-07	H-02-07
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BLDG SUMPS
 SUMP PUMP
 TROUBLE

EVENT POINT 1811

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o INTAKE ELECTRIC VAULT SUMP LEVEL HIGH AS SENSED BY SD-14-LS.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF HIGH LEVEL.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-072-SD-09.</p>
<p>SENSING ELEMENT: SD-14-LS</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-07	H-02-07
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BLDG SUMPS
SUMP PUMP
TROUBLE

EVENT POINT 1880

INDICATED CONDITION: <ul style="list-style-type: none">o TURBINE ROOM SUMP LEVEL HIGH AS SENSED BY SD-24-LS <u>OR</u>o OILY WATER SEPARATOR TROUBLE
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o NOTIFY SECONDARY PLANT OPERATOR TO INVESTIGATE CAUSE OF HIGH LEVEL AND/OR OILY WATER SEPARATOR PROBLEM
DISCUSSION: <p>OILY WATER SEPARATOR TROUBLE MAY BE CAUSED BY ANY OF THE FOLLOWING: HIGH/LOW VACUUM PRE-FILTER HIGH ΔP OIL DISCHARGE EMERGENCY STOP WHEN IN AUTO THE ALARM WINDOW DOES NOT TYPE "OILY WATER SEPARATOR TROUBLE" BUT IN FACT IS LABELED "TURBINE BUILDING SUMP LEVEL HIGH".</p>
REFERENCES: DRAWING 208-072 SD-01, SD-17.
SENSING ELEMENT: SD-24-LS, SD-24-DPIS, SD-26-PIS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-07	H-02-07
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BLDG SUMPS
SUMP PUMP
TROUBLE

EVENT POINT 1913

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o SEWAGE PUMP SUMP LEVEL HIGH AS SENSED BY LOCAL CIRCUIT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o SEP-1A AND/OR SEP-1B RUNNING.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o NOTIFY TURBINE BUILDING OPERATOR TO ENSURE LEVEL DOES NOT OVERFLOW ONTO TURBINE BUILDING FLOOR AND THAT SEP-1A AND OR SEP-1B ARE RUNNING TO LOWER LEVEL.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-064 ME-10</p>
<p>SENSING ELEMENT: R1.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-02-08	H-02-08
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SEC SAMPLE
SYSTEM
ALARM

EVENT POINT 0887

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o SECONDARY CYCLE SAMPLE ANALYSIS ALARM.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o NOTIFY SECONDARY CHEMISTRY TO INVESTIGATE CAUSE OF SAMPLE ALARM.
<p>DISCUSSION:</p> <p>THIS ALARM INDICATES AN ALARM HAS NOT BEEN ACKNOWLEDGED IN THE SECONDARY CHEMISTRY LABORATORY WITHIN AN ADJUSTABLE TIMER SETTING.</p>
<p>REFERENCES: DRAWING 208-054-SS-11</p>
<p>SENSING ELEMENT: SSCP-1 (SECONDARY CYCLE SAMPLE ANALYZER PANEL)</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	H-03-01
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LIQUID
 RADIATION
 HIGH

EVENT POINT 1786

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L1 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L1 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	H-03-01
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LIQUID
RADIATION
HIGH

EVENT POINT 1788

INDICATED CONDITION: <ul style="list-style-type: none">o RM-L2 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RM-L2 INDICATION AT RADIATION MONITORING PANEL.o SPDS ALPHA PAGE
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION.o NOTIFY PRIMARY PLANT OPERATOR TO ENSURE WDV-891 AND WDV-892 CLOSED.o REFER TO OP-505, RADIATION MONITORING SYSTEM.o CONTACT CHEMISTRY FOR EVALUATION OF MONITOR PRIOR TO MONITOR FLUSH.
DISCUSSION: <p>WDV-891 AND WDV-892 ARE PRIMARY LIQUID RELEASE VALVES.</p>
REFERENCES: DRAWING 208-049-RM-31
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	H-03-01
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LIQUID
 RADIATION
 HIGH

EVENT POINT 1792

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L3 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L3 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-408, NUCLEAR SERVICES COOLING SYSTEM TO CONNECT SW SURGE TANK TO WASTE GAS HDR o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	H-03-01
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LIQUID
RADIATION
HIGH

EVENT POINT 1794

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L5 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L5 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	K-03-01
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LIQUID
 RADIATION
 HIGH

EVENT POINT 1796

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L6 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L6 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-01	H-03-01
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LIQUID
 RADIATION
 HIGH

EVENT POINT 1798

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L7 RADIATION LEVEL EXCEEDS HIGH SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L7 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o NOTIFY PRIMARY PLANT OPERATOR TO ENSURE SDV-90 CLOSED. o CONTACT CHEMISTRY FOR EVALUATION OF MONITOR PRIOR TO MONITOR FLUSH. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p> <p>SDV-90 IS THE SECONDARY LIQUID RELEASE VALVE.</p>
<p>REFERENCES: DRAWING 208-049-RM-31</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
MONITOR
WARNING

EVENT POINT 1787

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L1 RADIATION LEVEL EXCEEDS WARNING SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L1 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
 MONITOR
 WARNING

EVENT POINT 1789

INDICATED CONDITION: <ul style="list-style-type: none"> o RM-L2 RADIATION LEVEL EXCEEDS WARNING SETPOINT.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none"> o RM-L2 INDICATION AT RADIATION MONITORING PANEL. o SPDS ALPHA PAGE
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
DISCUSSION:
REFERENCES: DRAWING 208-049-RM-31
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
MONITOR
WARNING

EVENT POINT 1791

INDICATED CONDITION: <ul style="list-style-type: none">o RM-L3 RADIATION LEVEL EXCEEDS WARNING SETPOINT.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RM-L3 INDICATION AT RADIATION MONITORING PANEL.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION.o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
DISCUSSION:
REFERENCES: DRAWING 208-049-RM-32
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
 MONITOR
 WARNING

EVENT POINT 1795

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RM-L5 RADIATION LEVEL EXCEEDS WARNING SETPOINT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o RM-L5 INDICATION AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF HIGH RADIATION. o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM. o REFER TO OP-505, RADIATION MONITORING SYSTEM.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-049-RM-32</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
MONITOR
WARNING

EVENT POINT 1797

INDICATED CONDITION: <ul style="list-style-type: none">o RM-L6 RADIATION LEVEL EXCEEDS WARNING SETPOINT.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RM-L6 INDICATION AT RADIATION MONITORING PANEL.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH RADIATION.o REFER TO OP-301, OPERATION OF THE REACTOR COOLANT SYSTEM.o REFER TO OP-505, RADIATION MONITORING SYSTEM.
DISCUSSION:
REFERENCES: DRAWING 208-049-RM-32
SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-02	H-03-02
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LIQUID
MONITOR
WARNING

EVENT POINT 1799

INDICATED CONDITION:

- RM-L7 RADIATION LEVEL EXCEEDS WARNING SETPOINT.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

- RM-L7 INDICATION AT RADIATION MONITORING PANEL.
- SPDS ALPHA PAGE.

OPERATOR ACTIONS FOR A VALID ALARM:

- INVESTIGATE CAUSE OF HIGH RADIATION.
- REFER TO OP-505, RADIATION MONITORING SYSTEM.

DISCUSSION:

REFERENCES: DRAWING 208-049-RM-31

SENSING ELEMENT: RADIATION MONITORING PANEL

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-03-03	H-03-03
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RM-L2/7
INTERLOCK
BYPASSED

EVENT POINT 2044

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o INTERLOCK BETWEEN SDV-90 AND RWP-3A/3B DEFEATED.o INTERLOCK BETWEEN WDV-892 AND RWP-1, RWP-2A/2B DEFEATED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o RM-L2/7 BYPASS KEY INSTALLED AT RADIATION MONITORING PANEL.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p>
<p>DISCUSSION:</p> <p>BYPASSING THE RM-L2/7 INTERLOCK ALLOWS OPENING OF SDV-90 WITH EITHER RWP-1, RWP-2A OR RWP-2B RUNNING INSTEAD OF RWP-3A OR RWP-3B. ALSO WDV-892 MAY BE OPENED WITH RWP-3A OR RWP-3B RUNNING INSTEAD OF RWP-1, RWP-2A OR RWP-2B.</p>
<p>REFERENCES: DRAWING 208-060-WD-60</p>
<p>SENSING ELEMENT: RADIATION MONITORING PANEL BYPASS INTERLOCK KEY SWITCH</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-01	H-04-01
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MAKEUP TANK
 LEVEL
 LOW LOW

EVENT POINT 0792

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o MAKEUP TANK LEVEL <18" AS SENSED BY MU14-LYI-4, MU14-LY2-4.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o MU-014-LIR1, MUT LEVEL/PRESSURE RECORDER. o MU-14-LI1, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL). o MU-14-LI2, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL).
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o ENSURE MUV-58, AND MUV-73 OPEN. o RESTORE MAKEUP TANK LEVEL TO NORMAL BAND.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-041-MU-17, MU-18</p>
<p>SENSING ELEMENT: MU14-LY1-4, MU14-LY2-4.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-02	H-04-02
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MAKEUP TANK
LEVEL
HIGH/LOW

EVENT POINT 1064

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> ○ MAKEUP TANK LEVEL. >100" AS SENSED BY MU-14-LY3.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> ○ MU-014-LIR1, MUT LEVEL/PRESSURE RECORDER. ○ MU-14-LI1, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL). ○ MU-14-LI2, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL). ○ COMPUTER POINT X359
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> ○ RESTORE MAKEUP TANK LEVEL TO NORMAL BAND.
<p>DISCUSSION:</p> <p>IF MUP(S) ARE ALIGNED TO BWST & RECIRC FLOW TO MUT IS CAUSING HIGH LEVEL IN MUT, THEN CONSIDER ALIGNING MUP SUCTION FROM MUT ONLY.</p>
<p>REFERENCES: DRAWING 208-041-MU-47.</p>
<p>SENSING ELEMENT: MU-14-LY3.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-02	H-04-02
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**MAKEUP TANK
LEVEL
HIGH/LOW**

EVENT POINT 1065

INDICATED CONDITION:

- o MAKEUP TANK LEVEL <55" AS SENSED BY MU-14-LY3.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

- o MU-014-LIR1, MUT LEVEL/PRESSURE RECORDER.
- o MU-14-LI1, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL).
- o MU-14-LI2, MUT LEVEL INDICATION (REDUNDANT INSTRUMENT PANEL).
- o COMPUTER POINT X359.

OPERATOR ACTIONS FOR A VALID ALARM:

- o RESTORE MAKEUP TANK LEVEL TO NORMAL BAND.

DISCUSSION:

REFERENCES: DRAWING 208-041-MU-47.

SENSING ELEMENT: MU-14-LY3.

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-03	H-04-03
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**MAKEUP
FLOW
HIGH**

EVENT POINT 1066

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o MAKEUP FLOW >160 GPM THROUGH MUV-31 AS SENSED BY MU-24-FS.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o MU-24-FI
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o DETERMINE CAUSE OF HIGH FLOW ALARM.o OBSERVE LTOP CONCERNSo REFER TO OP-301
<p>DISCUSSION:</p> <p>THE HIGH FLOW ALARM WAS ESTABLISHED FOR LTOP CONDITIONS TO PROVIDE INDICATION SHOULD MUV-31 FAIL WIDE OPEN. THE INTENT WAS TO PROVIDE AT LEAST 10 MINUTES FOR OPERATOR CORRECTIVE ACTION FOR THIS TRANSIENT.</p>
<p>REFERENCES: DRAWING 208-041-MU-47.</p>
<p>SENSING ELEMENT: MU-24-FS.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-04	H-04-04
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LETDOWN
TEMP
HIGH

EVENT POINT 1027

INDICATED CONDITION: <ul style="list-style-type: none">o LETDOWN TEMPERATURE TO PRE-FILTERS >130°F AS SENSED BY MU-5-TS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o MU-5-TI
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o REDUCE LETDOWN FLOW WITH MUV-51 FLOW CONTROL VALVE.o NOTIFY PRIMARY PLANT OPERATOR TO VERIFY SW THROTTLE VALVES TO LETDOWN COOLERS 'SEALED'.
DISCUSSION: IF LETDOWN HAS ISOLATED VIA MUV-49 REFER TO OP-402 FOR LETDOWN RECOVERY. IF HIGH LETDOWN FLOW IS DESIRED THEN CONSIDER STARTING SWP-1A OR SWP-1B TO PROVIDE ADDITIONAL COOLING WATER TO THE LETDOWN COOLERS.
REFERENCES: DRAWING 208-041-MU-33.
SENSING ELEMENT: MU-5-TS.

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-05	H-04-05
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RC PUMP
SEAL BLEED OFF
HIGH

EVENT POINT 1075

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o RC PUMP 1A CONTROL BLEEDOFF >1.75 GPM AS CALCULATED BY PLANT COMPUTER.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o COMPUTER POINT X-922.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO OP-302 'RC PUMP OPERATION'.
<p>DISCUSSION:</p> <p>REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p> <p>COMPUTER GROUP 78 CONTAINS ADDITIONAL DATA FOR RCP-1A.</p>
<p>REFERENCES: DRAWING 208-047 RC-05.</p>
<p>SENSING ELEMENT: RX00/RC-19A-PT1</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-05	H-04-05
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**RC PUMP
SEAL BLEED OFF
HIGH**

EVENT POINT 1076

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o RC PUMP 1B CONTROL BLEEDOFF >1.75 GPM AS CALCULATED BY PLANT COMPUTER.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o COMPUTER POINT X-923.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO OP-302 'RC PUMP OPERATION'.
<p>DISCUSSION:</p> <p>REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p> <p>COMPUTER GROUP 79 CONTAINS ADDITIONAL DATA FOR RCP-1B.</p>
<p>REFERENCES: DRAWING 208-047 RC 06.</p>
<p>SENSING ELEMENT: RX01/RC-19A-PT2</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-05	H-04-05
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RC PUMP
SEAL BLEED OFF
HIGH

EVENT POINT 1077

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">RC PUMP 1C CONTROL BLEEDOFF >1.75 GPM AS CALCULATED BY PLANT COMPUTER.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">COMPUTER POINT X-924.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">REFER TO OP-302 'RC PUMP OPERATION'.
<p>DISCUSSION:</p> <p>REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p> <p>COMPUTER GROUP 80 CONTAINS ADDITIONAL DATA FOR RCP-1C.</p>
<p>REFERENCES: DRAWING 208-047 RC-07.</p>
<p>SENSING ELEMENT: RX02/RC-19B-PT1.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-05	H-04-05
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RC PUMP
SEAL BLEED OFF
HIGH

EVENT POINT 1078

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o RC PUMP 1D CONTROL BLEEDOFF >1.75 GPM AS CALCULATED BY PLANT COMPUTER.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o COMPUTER POINT X-925.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO OP-302 'RC PUMP OPERATION'.
<p>DISCUSSION:</p> <p>REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p> <p>COMPUTER GROUP 81 CONTAINS ADDITIONAL DATA FOR RCP-1D.</p>
<p>REFERENCES: DRAWING 208-047 RC-08.</p>
<p>SENSING ELEMENT: RX-08/RC-19B-PT1.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-06	H-04-06
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MAKEUP TANK
PRESS
HIGH/LOW

EVENT POINT 1062

INDICATED CONDITION: <ul style="list-style-type: none">o MAKEUP TANK PRESSURE \geq THE OVERPRESSURE VALUE CALCULATED BY THE PLANT COMPUTER.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o MU-014-LIR1, MUT LEVEL/PRESSURE RECORDER.o COMPUTER POINTS X359 AND X401.
OPERATOR ACTIONS FOR A VALTD ALARM: <ul style="list-style-type: none">o ENSURE MUV-141, MUV-143 CLOSEDo IMMEDIATELY REDUCE PRESSURE WITHIN THE LIMITS OF MAKEUP TANK PRESSURE/LEVEL OF CURVE 8 OF OP-103B.
DISCUSSION: <p>THE VALUES OF THE COMPUTER POINTS ARE INPUT TO A CALCULATION WHICH ACTUATES THIS EVENT POINT WHEN MUT LEVEL/PRESSURE COMBINATION ARE BEING OPERATED IN THE RESTRICTED REGION OF CURVE 8 OP-103B.</p>
REFERENCES: DRAWING 208-041-MU-47.
SENSING ELEMENT: CX82

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-06	H-04-06
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**MAKEUP TANK
PRESS
HIGH/LOW**

EVENT POINT 1063

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o MAKEUP TANK PRESSURE <3 PSIG AS SENSED BY MU-17-PS.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o MU-014-LIR1, MUT LEVEL/PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o ENSURE MUV-134 CLOSED o INCREASE PRESSURE WITHIN LIMITS OF MAKEUP TANK PRESSURE/LEVEL CURVE OF OP-103B.
<p>DISCUSSION:</p> <p>MUT PRESSURE MAY BE TEMPORARILY REDUCED BELOW 3 PSIG DURING VENTING EVOLUTIONS, BUT SHOULD BE MAINTAINED ABOVE 0 PSIG.</p>
<p>REFERENCES: DRAWING 208-041-MU-47.</p>
<p>SENSING ELEMENT: MU-17-PS.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-08	H-04-08
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MAKEUP VALVES AIR FAILURE

EVENT POINT 1095

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o MAKEUP CONTROL VALVE MUV-31 LOCKED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o MUV-31 AIR FAILURE PUSH-BUTTON ILLUMINATED.o MUV-31 CONTROL STATION IN 'HAND'.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO AP-470o INVESTIGATE LOSS OF INSTRUMENT AIR PRESSURE TO MUV-31.
<p>DISCUSSION:</p> <p>TWO PRESSURE SWITCHES SUPPLY PRESSURE INFORMATION TO THE CONTROL CIRCUITS FOR MUV-31. MU-25-PS1 SET FOR 32 PSIG AND MU-25-PS2 SET FOR 28 PSIG. IF EITHER MU-25-PS1 OR MU-25-PS2 IS ACTUATED, THE VALVE POSITION WILL BE LOCKED "AS IS" BY THE ISOLATION OF THE AIR LINE FROM THE POSITIONER TO THE VALVE DIAPHRAGM. OPERATION OF THE VALVE BY DEPRESSING THE AIR FAILURE RESET PUSH-BUTTON IS NOT CERTAIN AT THIS LOW AIR PRESSURE.</p>
<p>REFERENCES: DRAWING 208-041-MU-54.</p>
<p>SENSING ELEMENT: MU-25-PS1, MU-25-PS2.</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-04-08	H-04-08
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MAKEUP VALVES AIR FAILURE
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EVENT POINT 1102

INDICATED CONDITION: <ul style="list-style-type: none"> o RC PUMP SEAL BLEEDOFF VALVE MUV-253 AIR SUPPLY PRESSURE <80 PSIG AS SENSED BY MU-253-PS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none"> o REFER TO AP-470 o INVESTIGATE LOSS OF INSTRUMENT AIR PRESSURE TO MUV-253.
DISCUSSION: OPERATION OF THE VALVE IS NOT CERTAIN AT THIS LOW AIR PRESSURE. MUV-253 FAILS CLOSED IF THE AIR PRESSURE IS INSUFFICIENT AGAINST THE CLOSURE SPRING OF THE VALVE OPERATOR.
REFERENCES: DRAWING 208-041-MU-54.
SENSING ELEMENT: MU-15-PS1, MU-15-PS2.

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-01	H-05-01
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**STM GEN A
MAIN STEAM ISO
ACTUATED**

EVENT POINT 2007

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL "A", STEAM GENERATOR "A" MAIN STEAM LINE ISOLATION BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HALF OR FULL TRIP ON EFIC CHANNEL "A" MAIN STEAM LINE ISOLATION. o MS-106-PI, CHANNEL "A", OTSG A PRESSURE INDICATION. o MS-106-PIR, CHANNEL "A", OTSG A/B PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP-05, EXCESSIVE HEAT TRANSFER. o INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>MSLI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS.</p> <p>NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 1</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-01	H-05-01
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**STM GEN A
MAIN STEAM ISO
ACTUATED**

EVENT POINT 2015

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">○ EFIC CHANNEL "B", STEAM GENERATOR "A" MAIN STEAM LINE ISOLATION BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">○ HALF OR FULL TRIP ON EFIC CHANNEL "B" MAIN STEAM LINE ISOLATION.○ MS-107-PI, CHANNEL "B", OTSG A PRESSURE INDICATION.○ MS-107-PIR, CHANNEL "B", OTSG A/B PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">○ REFER TO EOP-05, EXCESSIVE HEAT TRANSFER.○ INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>MSLI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 2</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-02	H-05-02
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**STM GEN A
FEEDWATER ISO
ACTUATED**

EVENT POINT 2017

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL "B", STEAM GENERATOR 'A' MAIN FEEDWATER ISOLATION BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HALF OR FULL TRIP ON EFIC CHANNEL "B" MAIN FEEDWATER ISOLATION. o MS-107-PI, CHANNEL "B", OTSG A PRESSURE INDICATION. o MS-107-PIR, CHANNEL "B", OTSG A/B PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP-05, EXCESSIVE HEAT TRANSFER. o INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>MFWI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 2</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-03	H-05-03
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<p>MAIN STEAM ISO VALVE AIR FAILURE</p>

EVENT POINT 0956

INDICATED CONDITION:

- MSV-413 AND MSV-414 AIR SUPPLY PRESSURE <80 PSIG AS SENSED BY MS-99-PS.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

OPERATOR ACTIONS FOR A VALID ALARM:

- REFER TO AP-470
- INVESTIGATE LOSS OF INSTRUMENT AIR PRESSURE TO MSIVs.

DISCUSSION:

ON A LOSS OF INSTRUMENT AIR, THE ACCUMULATORS SHOULD MAINTAIN THE MSIVs OPEN FOR AT LEAST 1 HOUR DEPENDENT ON ACTUATOR LEAKAGE. DEGRADATION OF THE ACCUMULATOR PRESSURE WILL BE INDICATED BY THE ILLUMINATION OF THE SV-1/SV-2 WHITE TEST LIGHT ON THE PSA PANEL.

REFERENCES: DRAWING 208-039 MS-14

SENSING ELEMENT: MS-99-PS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-03	H-05-03
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MAIN STEAM ISO VALVE AIR FAILURE

EVENT POINT 0959

INDICATED CONDITION: <ul style="list-style-type: none"> o MSV-411 AND MSV-412 AIR SUPPLY PRESSURE <80 PSIG AS SENSED BY MS-98-PS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none"> o REFER TO AP-470 o INVESTIGATE LOSS OF INSTRUMENT AIR PRESSURE TO MSIVs.
DISCUSSION: ON A LOSS OF INSTRUMENT AIR, THE ACCUMULATORS SHOULD MAINTAIN THE MSIVs OPEN FOR AT LEAST 1 HOUR DEPENDENT ON ACTUATOR LEAKAGE. DEGRADATION OF THE ACCUMULATOR PRESSURE WILL BE INDICATED BY THE ILLUMINATION OF THE SV-1/SV-2 WHITE TEST LIGHT ON THE PSA PANEL.
REFERENCES: DRAWING 208-039 MS-14
SENSING ELEMENT: MS-98-PS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-04	H-05-04
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LETDOWN
PRESSURE
HIGH

EVENT POINT 1060

INDICATED CONDITION: <ul style="list-style-type: none">o LETDOWN PRESSURE AFTER BLOCK ORIFICE >145 PSIG AS SENSED BY MU-6-PS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o COMPUTER POINT X002.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF HIGH PRESSURE CONDITION.o REDUCE LETDOWN FLOW.
DISCUSSION: <p>A POSSIBLE CAUSE OF HIGH PRESSURE AT THIS POINT IN THE SYSTEM IS ISOLATION OF DOWNSTREAM COMPONENTS OR ANY FLOW RESTRICTIONS IN THE PRE-FILTERS, POST-FILTERS OR MAKEUP DEMINS. IF THE HIGH PRESSURE CONDITION EXISTS AND ITS CAUSE CANNOT BE DETERMINED THEN CLOSURE OF MUV-49 MAY BE REQUIRED TO PREVENT POSSIBLE RELIEF VALVE OPERATION TO THE A.B. SUMP.</p>
REFERENCES: DRAWING 208-041 MS-47
SENSING ELEMENT: MS-6-PS

FSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-05	H-05-05
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**MAKEUP FILTERS
Δ PRESS
HIGH**

EVENT POINT 1061

INDICATED CONDITION: <ul style="list-style-type: none">○ MAKEUP POSTFILTER DIFFERENTIAL PRESSURE >25 PSIG AS SENSED BY MU-18-DPS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">○ MAKEUP POSTFILTER DIFFERENTIAL PRESSURE MU-18-DPI.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">○ PLACE "A" AND "B" POST-FILTERS IN SERVICE.○ REDUCE LETDOWN FLOW.
DISCUSSION:
REFERENCES: DRAWING 208-041 MU-47
SENSING ELEMENT: MU-18-DPS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-06	H-05-06
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MAKEUP DEMIN
Δ PRESS
HIGH

EVENT POINT 1083

INDICATED CONDITION: <ul style="list-style-type: none">○ MAKEUP DEMIN DIFFERENTIAL PRESSURE >14 PSIG AS SENSED BY MU-75-DPS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">○ MAKEUP DEMIN DIFFERENTIAL PRESSURE INDICATION MU-75-DPI.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">○ REFER TO OP-402○ BYPASS DEMINERALIZERS OR PLACE ALTERNATE DEMIN IN SERVICE○ REDUCE LETDOWN FLOW
DISCUSSION: <p>CONSIDERATION SHOULD BE GIVEN TO THE AFFECT ON THE RCS OF PLACING THE ALTERNATE DEMIN IN SERVICE. IF IT IS NOT SATURATED AT THE SAME LEVEL AS THE RCS IS AT THE TIME THE ALTERNATE DEMIN IS PLACED IN SERVICE THERE WILL BE A SIGNIFICANT CHANGE IN CORE REACTIVITY THAT MAY CAUSE A SIGNIFICANT OPERATIONAL EXCURSION OR REDUCTION OF THE SHUTDOWN MARGIN.</p>
REFERENCES: DRAWING 208-041 MU-47
SENSING ELEMENT: MU-75-DPS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-07	H-05-07
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RC PUMP
SEAL FLOWS
HIGH/LOW

EVENT POINT 1079

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o REACTOR COOLANT PUMP TOTAL SEAL FLOW >42 GPM AS SENSED BY MU-27-FS.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o REACTOR COOLANT PUMP TOTAL SEAL FLOW INDICATION MU-27-FI.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO OP-302.o REESTABLISH NORMAL SEAL FLOW.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-041 MU-47</p>
<p>SENSING ELEMENT: MU-27-FS</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-07	H-05-07
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RC PUMP
SEAL FLOWS
HIGH/LOW

EVENT POINT 1080

INDICATED CONDITION: <ul style="list-style-type: none">o REACTOR COOLANT PUMP TOTAL SEAL FLOW <22 GPM AS SENSED BY MU-27-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o REACTOR COOLANT PUMP TOTAL SEAL FLOW INDICATION MU-27-FI.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o REFER TO OP-302.o REESTABLISH NORMAL SEAL FLOW.
DISCUSSION:
REFERENCES: DRAWING 208-041 MU-47
SENSING ELEMENT: MU-27-FS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-07	H-05-07
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RC PUMP
SEAL FLOWS
HIGH/LOW

EVENT POINT 1086

INDICATED CONDITION: <ul style="list-style-type: none">o REACTOR COOLANT PUMP 1C SEAL FLOW <3 GPM AS SENSED BY MU-7-FS3.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o REACTOR COOLANT PUMP 1C SEAL FLOW INDICATION MU-7-FI3.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o REFER TO OP-302.o REESTABLISH NORMAL SEAL FLOW.
DISCUSSION:
REFERENCES: DRAWING 208-041 MU-47
SENSING ELEMENT: MU-7-FS3

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-07	H-05-07
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RC PUMP
SEAL FLOWS
HIGH/LOW

EVENT POINT 1087

INDICATED CONDITION: <ul style="list-style-type: none">o REACTOR COOLANT PUMP 1D SEAL FLOW <3 GPM AS SENSED BY MU-7-FS4.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o REACTOR COOLANT PUMP 1D SEAL FLOW INDICATION MU-7-FI4.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o REFER TO OP-302.o REESTABLISH NORMAL SEAL FLOW.
DISCUSSION:
REFERENCES: DRAWING 208-041 MU-47
SENSING ELEMENT: MU-7-FS4

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-05-08	H-05-08
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**BWST VLV
INTERLOCK
BYPASSED**

EVENT POINT 2048

INDICATED CONDITION:

- MAKEUP TANK LOW-LOW LEVEL INTERLOCK DEFEATED FOR MUV-58 AND/OR MUV-73

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
SWITCH POSITIONS IN "A" AND "B" REMOTE SHUTDOWN AUXILIARY CABINETS.

OPERATOR ACTIONS FOR A VALID ALARM:

DISCUSSION:
THE SWITCH FOR MUV-73 INTERLOCK IS LOCATED IN THE "A" REMOTE SHUTDOWN AUXILIARY CABINET IN THE "A" ES 4160V SWITCHGEAR ROOM. THE SWITCH FOR MUV-58 INTERLOCK IS LOCATED IN THE "B" REMOTE SHUTDOWN AUXILIARY CABINET IN THE "B" ES 4160V SWITCHGEAR ROOM. USE SSOD KEY 47 TO ACCESS THE AUXILIARY CABINETS.

REFERENCES: DRAWING 205-041 MU-07

SENSING ELEMENT: ZZ SS/BYP, RS-AUX A/B

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-01	H-06-01
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**STM GEN B
MAIN STEAM ISO
ACTUATED**

EVENT POINT 2008

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL "A", STEAM GENERATOR "B" MAIN STEAM LINE ISOLATION BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HALF OR FULL TRIP ON EFIC CHANNEL "A" MAIN STEAM LINE ISOLATION. o MS-110-PI, CHANNEL "A", OTSG B PRESSURE INDICATION. o MS-106-PIR, CHANNEL "A", OTSG A/B PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP-05, EXCESSIVE HEAT TRANSFER. o INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>MSLI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 1</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-01	H-06-01
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**STM GEN B
MAIN STEAM ISO
ACTUATED**

EVENT POINT 2016

INDICATED CONDITION:

- o EFIC CHANNEL "B", STEAM GENERATOR "B" MAIN STEAM LINE ISOLATION BUS 1 OR BUS 2 TRIPPED.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

- o HALF OR FULL TRIP ON EFIC CHANNEL "B" MAIN STEAM LINE ISOLATION.
- o MS-111-PI, CHANNEL "B", OTSG A PRESSURE INDICATION.
- o MS-107-PIR, CHANNEL "B", OTSG A/B PRESSURE RECORDER.

OPERATOR ACTIONS FOR A VALID ALARM:

- o REFER TO EOP-05, EXCESSIVE HEAT TRANSFER.
- o INVESTIGATE CAUSE OF TRIP CONDITION.

DISCUSSION:

MSLI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.

REFERENCES: VITRO DRAWING 3801-3005 SHEET 2

SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-02	H-06-02
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**STM GEN B
 FEEDWATER ISO
 ACTUATED**

EVENT POINT 2018

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL "B", STEAM GENERATOR "B" MAIN FEEDWATER ISOLATION BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HALF OR FULL TRIP ON EFIC CHANNEL "B" MAIN FEEDWATER ISOLATION. o MS-111-PI, CHANNEL "B", OTSG B PRESSURE INDICATION. o MS-107-PIR, CHANNEL "B", OTSG A/B PRESSURE RECORDER.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP-05, EXCESSIVE HEAT TRANSFER. o INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>MFVI ACTUATION SETPOINT IS OTSG PRESSURE <600 PSIG. WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. NO ADDITIONAL ALARMS DIFFERENTIATE BETWEEN FULL AND HALF TRIPS.</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 2</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-03	H-06-03
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**EMERG FW
ACTUATION**

EVENT POINT 2006

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL "A", EMERGENCY FEEDWATER BUS 1 OR BUS 2 TRIPPED. 						
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HALF OR FULL TRIP ON EFIC CHANNEL "A" EMERGENCY FEEDWATER ACTUATION. 						
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP. o INVESTIGATE CAUSE OF TRIP CONDITION. 						
<p>DISCUSSION:</p> <p>WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSH-BUTTONS TO DETERMINE EFIC ACTUATION STATUS. EFIC ACTUATES BY ANY OF THE FOLLOWING CONDITIONS:</p> <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 33%;">EITHER OTSG <600 PSIG OF ALL RCPs</td> <td style="width: 33%;">EITHER OTSG APPROACHING 0" NI POWER >45% W/FW <17%</td> <td style="width: 33%;">MANUAL ACTUATION LOSS HPI A AND B ACTUATION</td> </tr> <tr> <td colspan="3">LOSS OF BOTH MFPs W/RPS NOT IN S/D BYPASS</td> </tr> </table>	EITHER OTSG <600 PSIG OF ALL RCPs	EITHER OTSG APPROACHING 0" NI POWER >45% W/FW <17%	MANUAL ACTUATION LOSS HPI A AND B ACTUATION	LOSS OF BOTH MFPs W/RPS NOT IN S/D BYPASS		
EITHER OTSG <600 PSIG OF ALL RCPs	EITHER OTSG APPROACHING 0" NI POWER >45% W/FW <17%	MANUAL ACTUATION LOSS HPI A AND B ACTUATION				
LOSS OF BOTH MFPs W/RPS NOT IN S/D BYPASS						
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 1</p>						
<p>SENSING ELEMENT:</p>						

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-03	H-06-03
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EMERG FW
ACTUATION

EVENT POINT 2014

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o EFIC CHANNEL "B", EMERGENCY FEEDWATER BUS 1 OR BUS 2 TRIPPED.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o HALF OR FULL TRIP ON EFIC CHANNEL "B" EMERGENCY FEEDWATER ACTUATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO EOPo INVESTIGATE CAUSE OF TRIP CONDITION.
<p>DISCUSSION:</p> <p>WITH THIS EVENT POINT IN ALARM, A HALF TRIP OR FULL TRIP CONDITION EXISTS. THE OPERATOR MUST OBSERVE THE EFIC PUSHBUTTONS TO DETERMINE EFIC ACTUATION STATUS. EFIC ACTUATES BY ANY OF THE FOLLOWING CONDITIONS:</p> <p>EITHER OTSG <600 PSIG EITHER OTSG APPROACHING 0" MANUAL ACTUATION LOSS OF ALL RCPs NI POWER >45% W/FW <17% HPI A AND B ACTUATION LOSS OF BOTH MVPs W/RPS NOT IN S/D BYPASS</p>
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 1</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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**EFIC
BYPASS**

EVENT POINT 2012

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">○ EFIC CHANNEL A IN MAINTENANCE BYPASS.○ ANY EFIC CHANNEL A TEST SWITCH NOT IN NORMAL.○ ANY EFIC CHANNEL A CIRCUIT BREAKER OPEN.○ ANY EFIC CHANNEL A MODULE WITHDRAWN.○ EFIC CHANNEL A CABINET POWER SUPPLY FAILURE.○ EFIC CHANNEL A MAINTENANCE BYPASS ISOLATOR FAILURE.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">○ INVESTIGATE CAUSE OF ALARM CONDITION.
<p>DISCUSSION:</p> <ul style="list-style-type: none">○ MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE IS INDICATED BY MAINTENANCE BYPASS ALARM WITHOUT THE LOCAL CHANNEL MAINTENANCE BYPASS LED FLASHING.
<p>REFERENCES: VITRO DRAWING 3801-3005 SHEET 1</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2020

INDICATED CONDITION: <ul style="list-style-type: none">o EFIC CHANNEL B IN MAINTENANCE BYPASS.o ANY EFIC CHANNEL B TEST SWITCH NOT IN NORMAL.o ANY EFIC CHANNEL B CIRCUIT BREAKER OPEN.o ANY EFIC CHANNEL B MODULE WITHDRAWN.o EFIC CHANNEL B CABINET POWER SUPPLY FAILURE.o EFIC CHANNEL B MAINTENANCE BYPASS ISOLATOR FAILURE.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF ALARM CONDITION.
DISCUSSION: <ul style="list-style-type: none">o MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE IS INDICATED BY MAINTENANCE BYPASS ALARM WITHOUT THE LOCAL CHANNEL MAINTENANCE BYPASS LED FLASHING.
REFERENCES: VITRO DRAWING 3801-3005 SHEET 2
SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2025

INDICATED CONDITION: <ul style="list-style-type: none">o EFIC CHANNEL C IN MAINTENANCE BYPASS.o ANY EFIC CHANNEL C TEST SWITCH NOT IN NORMAL.o ANY EFIC CHANNEL C CIRCUIT BREAKER OPEN.o ANY EFIC CHANNEL C MODULE WITHDRAWN.o EFIC CHANNEL C CABINET POWER SUPPLY FAILURE.o EFIC CHANNEL C MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF ALARM CONDITION.
DISCUSSION: <ul style="list-style-type: none">o MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE IS INDICATED BY MAINTENANCE BYPASS ALARM WITHOUT THE LOCAL CHANNEL MAINTENANCE BYPASS LED FLASHING.
REFERENCES: VITRO DRAWING 3801-3005 SHEET 3
SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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**EFIC
BYPASS**

EVENT POINT 2029

INDICATED CONDITION:

- EFIC CHANNEL D IN MAINTENANCE BYPASS.
- ANY EFIC CHANNEL D TEST SWITCH NOT IN NORMAL.
- ANY EFIC CHANNEL D CIRCUIT BREAKER OPEN.
- ANY EFIC CHANNEL D MODULE WITHDRAWN.
- EFIC CHANNEL D CABINET POWER SUPPLY FAILURE.
- EFIC CHANNEL D MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

OPERATOR ACTIONS FOR A VALID ALARM:

- INVESTIGATE CAUSE OF ALARM CONDITION.

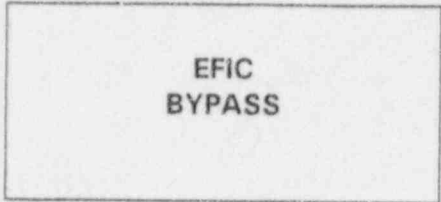
DISCUSSION:

- MAINTENANCE BYPASS DIGITAL ISOLATOR FAILURE IS INDICATED BY MAINTENANCE BYPASS ALARM WITHOUT THE LOCAL CHANNEL MAINTENANCE BYPASS LED FLASHING.

REFERENCES: VITRO DRAWING 3801-3005 SHEET 4

SENSING ELEMENT:

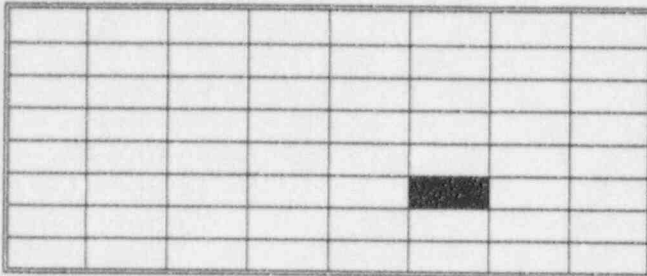
PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EVENT POINT 2030

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> ○ EFIC CHANNEL A EFW TEST SWITCH IN "TEST" POSITION. ○ "M.S. ISOLATION VALVES AIR SUPPLY TEST A" SWITCH SELECTED TO NUMBER 2, "MSI SV-2 EFIC HALF/TRIP" OR NUMBER 1, "MS & FW ISOLATION".
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> ○ KEY OPERATED TEST SWITCH IN RELAY RACK RR3A IS SELECTED TO THE "TEST" POSITION. (CRD ROOM)
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> ○ INVESTIGATE CAUSE OF ALARM CONDITION. ○ NOTIFY SSOD OF KEY SWITCH POSITION.
<p>DISCUSSION:</p> <ul style="list-style-type: none"> ○ SELECTING THE "TEST" POSITION BLOCKS THE OUTPUT OF "A" EFW BUS 1 AND BUS 2.
<p>REFERENCES: DRAWING 208-032-FW-47, 208-026-EF-15</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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**EFIC
 BYPASS**

EVENT POINT 2031

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFIC CHANNEL B EFW TEST SWITCH IN TEST POSITION. o "M.S. ISOLATION VALVES AIR SUPPLY TEST B" SWITCH SELECTED TO NUMBER 2, "MSI SV-1 EFIC HALF TRIP" OR NUMBER 1, "MS & FW ISOLATION".
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o KEY OPERATED TEST SWITCH IN RELAY RACK RR5B1 IS SELECTED TO THE "TEST" POSITION. (EFIC ROOM B)
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CAUSE OF ALARM CONDITION. o NOTIFY SSOD OF KEY SWITCH POSITION.
<p>DISCUSSION:</p> <ul style="list-style-type: none"> o SELECTING THE "TEST" POSITION BLOCKS THE OUTPUT OF "B" EFW BUS 1 AND BUS 2.
<p>REFERENCES: DRAWING 208-032-FW-48, 208-026-EF-16</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2032

INDICATED CONDITION: <ul style="list-style-type: none">o EFIC AUXILIARY RELAY BOX 1C TEST SWITCH IN TEST.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF ALARM CONDITION.
DISCUSSION: <ul style="list-style-type: none">o AUTOMATIC REPOSITIONING OF EFV-11 AND EFV-32 BY EFIC IS BLOCKED WHEN IN TEST.
REFERENCES: DRAWING 208-026-EF-21
SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2033

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> EFIC AUXILIARY RELAY BOX 1D TEST SWITCH IN TEST.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> INVESTIGATE CAUSE OF ALARM CONDITION.
<p>DISCUSSION:</p> <ul style="list-style-type: none"> AUTOMATIC REPOSITIONING OF EFV-14 AND EFV-33 BY EFIC IS BLOCKED WHEN IN TEST.
<p>REFERENCES: DRAWING 208-026-EF-22</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2034

INDICATED CONDITION:

- o EFIC ES-A BYPASS/TESTING.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

OPERATOR ACTIONS FOR A VALID ALARM:

- o INVESTIGATE CAUSE OF ALARM CONDITION.

DISCUSSION:

THIS EVENT POINT IS RECEIVED DURING EFIC TESTING BY PLACING THE SPRING RETURN TO NORMAL SWITCH TO EITHER TEST 1 OR TEST 2 POSITION IN THE ES-A MANUAL ACTUATION CABINET 4D. THESE TEST POSITIONS SIMULATE AN ES "A" SIGNAL TO EFIC CHANNELS "A" OR "B". THIS SWITCH DOES NOT BYPASS ANY ACTUATION SIGNAL FROM ENGINEERED SAFEGUARDS.

REFERENCES: DRAWING 208-028-ES-A65

SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-06	H-06-06
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EFIC
BYPASS

EVENT POINT 2035

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o EFIC ES-B BYPASS/TESTING.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE CAUSE OF ALARM CONDITION.
<p>DISCUSSION:</p> <p>THIS EVENT POINT IS RECEIVED DURING EFIC TESTING BY PLACING THE SPRING RETURN TO NORMAL SWITCH TO EITHER TEST 1 OR TEST 2 POSITION IN THE ES-B MANUAL ACTUATION CABINET 5D. THESE TEST POSITIONS SIMULATE AN ES "B" SIGNAL TO EFIC CHANNELS "A" OR "B". THIS SWITCH DOES NOT BYPASS ANY ACTUATION SIGNAL FROM ENGINEERED SAFEGUARDS.</p>
<p>REFERENCES: DRAWING 208-028-ES-B65</p>
<p>SENSING ELEMENT:</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-07	H-06-07
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EFIC SHUTDOWN BYPASS

EVENT POINT 2028

INDICATED CONDITION: <ul style="list-style-type: none">o EFIC CHANNEL "D" MAIN STEAM ISOLATION ACTUATION BYPASSED.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o CHANNEL "D" '<725 PSI STM GEN PRESS EFIC ACT BYPASS' PUSH-BUTTON ILLUMINATED.
OPERATOR ACTIONS FOR A VALID ALARM:
DISCUSSION: <p>THIS EVENT POINT IS RECEIVED WHEN PLANT CONDITIONS ALLOW THE BYPASSING OF MSLY/MWFI ACTUATION, AND THE BYPASS PUSH-BUTTON HAS BEEN DEPRESSED. THE ACTUATION SETPOINT IS <600 PSIG AND THE BYPASS IS ALLOWED WHEN OTSG PRESSURES ARE APPROXIMATELY <725 PSIG.</p>
REFERENCES: VITRO DRAWING 3801-3005 SHEET 4
SENSING ELEMENT:

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-08	H-06-08
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EFIC AH
SYSTEM
TROUBLE

EVENT POINT 0767

INDICATED CONDITION: <ul style="list-style-type: none">o AHF-54A/AHF-54B DUCT, SMOKE DETECTED, OR TROUBLE AS SENSED BY PYROTRONIC SMOKE DETECTION MODULES AH-934-CE1 OR AH-934-CE2.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF SMOKE DETECTED OR TROUBLE ALARM.
DISCUSSION:
REFERENCES: DRAWING 208-005-AH-185
SENSING ELEMENT: AH-934-CE1, AH-934-CE2

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-06-08	H-06-08
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EFIC AH
SYSTEM
TROUBLE

EVENT POINT 0768

INDICATED CONDITION: <ul style="list-style-type: none">o AHF-54A/AHF-54B DUCT, TEMPERATURE >85° AS SENSED BY AH-932-TS1/TS2.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CAUSE OF DUCT HIGH TEMPERATURE ALARM.
DISCUSSION:
REFERENCES: DRAWING 208-005-AH-185
SENSING ELEMENT: AH-932-TS1, AH-932-TS2

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-01	H-07-01
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EF TANK
LEVEL
LOW-LOW

EVENT POINT 0815

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFT-2 LEVEL <8'0" AS SENSED BY EF-98-LT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o EF-98-LI1, EMERGENCY FEED TANK LEVEL INDICATION. o EF-99-LI1, EMERGENCY FEED TANK LEVEL INDICATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP.
<p>DISCUSSION:</p> <p>THE LOW-LOW LEVEL ALARM SETPOINT IS EQUIVALENT TO 30,600 GALLONS.</p> <p>REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p>
<p>REFERENCES: DRAWING 205-026-EF-05</p>
<p>SENSING ELEMENT: EF-98-LT</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-02	H-07-02
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EF PUMP 1
AUTO START

EVENT POINT 1681

INDICATED CONDITION: <ul style="list-style-type: none">o EFP-1 MOTOR ENERGIZED WITH CONTROL SWITCH IN NORMAL AFTER STOP POSITION.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o RED LIGHT ON WITH A GREEN FLAG ON EFP-1 CONTROL STATION.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o REFER TO EOP.
DISCUSSION:
REFERENCES: DRAWING 208-026-EF-01B
SENSING ELEMENT: EFP-1 CONTROL SWITCH CONTACTS CS/ST, CS/O

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-03	H-07-03
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<p>EF PUMP 1 START FAILURE</p>
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EVENT POINT 1680

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFP-1 MOTOR NOT ENERGIZED WITH CONTROL SWITCH IN NORMAL AFTER STOP POSITION, <u>AND</u> 50 SECONDS HAVE ELAPSED WITH AN ACTUATION SIGNAL PRESENT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP. o MANUALLY START EFP-1
<p>DISCUSSION:</p> <p>IF EFP-1 FAILED TO START FROM A VALID ACTUATION SIGNAL, BUT WAS MANUALLY STARTED THEN THIS ALARM WILL NOT ACTUATE DUE TO THE 50 SECOND TIME DELAY RELAY CIRCUIT. THE CONTROL SWITCH MUST BE IN THE NORMAL AFTER STOP POSITION TO ACTUATE THIS ALARM.</p>
<p>REFERENCES: DRAWING 208-026-EF-01B</p>
<p>SENSING ELEMENT: EFP-1 CONTROL SWITCH CONTACTS CS/ST, CS/O</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-03	H-07-03
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**EF PUMP 1
START
FAILURE**

EVENT POINT 1682

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFP-1 DISCHARGE PRESSURE <1100 PSIG AS SENSED BY EF-17-PS WITH CONTROL SWITCH IN NORMAL AFTER START POSITION.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p>
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP. o INVESTIGATE CAUSE OF LOW DISCHARGE PRESSURE.
<p>DISCUSSION:</p> <p>THE CONTROL SWITCH MUST BE IN THE NORMAL AFTER START POSITION TO ACTUATE THIS EVENT POINT.</p>
<p>REFERENCES: DRAWING 208-026-EF-01B</p>
<p>SENSING ELEMENT: EFP-1 CONTROL SWITCH CONTACTS CS/SC, CS/O, EF-17-PS</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-04	H-07-04
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EF PUMP 1
TRIP

EVENT POINT 1261

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o EFP-1 MOTOR NOT ENERGIZED WITH CONTROL SWITCH IN NORMAL AFTER START POSITION.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o GREEN LIGHT ON WITH A RED FLAG ON EFP-1 CONTROL STATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o REFER TO EOP.o INVESTIGATE CAUSE OF BREAKER TRIP.
<p>DISCUSSION:</p> <p>THE CONTROL SWITCH MUST BE IN THE NORMAL AFTER START POSITION TO ACTUATE THIS EVENT POINT.</p>
<p>REFERENCES: DRAWING 208-026-EF-01</p>
<p>SENSING ELEMENT: EFP-1 CONTROL SWITCH CONTACTS CS/SC, CS/O</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-05	H-07-05
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**EF PUMP 1
OUT OF SERVICE**

EVENT POINT 1257

INDICATED CONDITION:

- o EFP-1 CIRCUIT BREAKER NOT RACKED IN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

- o GREEN AND RED LIGHTS EXTINGUISHED ON CONTROL STATION.

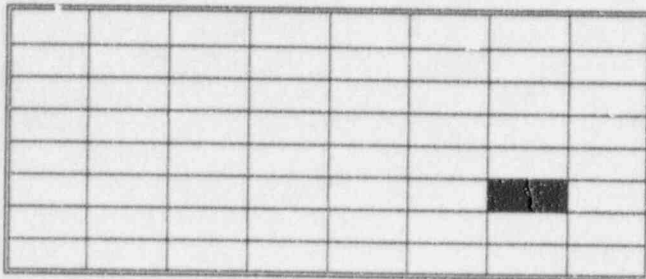
OPERATOR ACTIONS FOR A VALID ALARM:

DISCUSSION:

REFERENCES: DRAWING 208-026-EF-01

SENSING ELEMENT: EFP-1 BREAKER 52H/B CONTACTS

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-07-06	H-07-06
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<p>EF PUMP 1 MOTOR OVERLOAD</p>
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EVENT POINT 1260

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFP-1 MOTOR AMPS >115% RATED LOAD.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o HIGH MOTOR AMPS. o EFP-1 BREAKER TRIP.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o REFER TO EOP. o START EFP-2. o REDUCE EMERGENCY FEEDWATER FLOW FROM EFP-1 IF STILL RUNNING.
<p>DISCUSSION:</p> <p>THIS ALARM INDICATES THAT EITHER THE TIMED OVERCURRENT OR INSTANTANEOUS OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATED. INSTANTANEOUS OVERCURRENT PROTECTIVE RELAY ACTUATION WILL TRIP THE BREAKER.</p> <p>IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO THE BREAKER TRIP.</p>
<p>REFERENCES: DRAWING 208-026-EF-01</p>
<p>SENSING ELEMENT: EFP-1 BREAKER 51 RELAY (INSIDE 4160 BREAKER CUBICLE)</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-01	H-08-01
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EF TANK
LEVEL
HIGH/LOW

EVENT POINT 0817

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFT-2 LEVEL <34'6" AS SENSED BY EF-99-LT.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o EF-98-LI1 EMERGENCY FEED TANK LEVEL INDICATION. o EF-99-LI1 EMERGENCY FEED TANK LEVEL INDICATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o RESTORE TANK LEVEL TO NORMAL OPERATING BAND.
<p>DISCUSSION:</p> <p>THE LOW LEVEL ALARM SETPOINT IS EQUIVALENT TO 152,500 GALLONS. REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS.</p>
<p>REFERENCES: DRAWING 205-026 EF-05</p>
<p>SENSING ELEMENT: EF-99-LT</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-04	H-08-04
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EF PUMP 2
TRIP

EVENT POINT 0326

INDICATED CONDITION: <ul style="list-style-type: none">TURBINE DRIVEN EMERGENCY FEEDWATER PUMP STEAM SUPPLY VALVE ASV-50 NOT OPEN.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">NOTIFY PRIMARY PLANT OPERATOR TO RESET ASV-50
DISCUSSION:
REFERENCES: DRAWING 208-008 A5-01
SENSING ELEMENT: 33C/ASV-50

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-05	H-08-05
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EF PUMP 2
OUT OF SERVICE

EVENT POINT 1521

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none">o ASV-204 CLOSED, WITH DC CONTROL POWER NOT AVAILABLE.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none">o ASV-204 POSITION INDICATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none">o INVESTIGATE LOSS OF CONTROL POWER TO ASV-204.
<p>DISCUSSION:</p> <p>THIS ALARM MEANS ASV-204 IS CLOSED WITH NO CONTROL POWER AVAILABLE TO ALLOW AN AUTO OPEN DURING AN ACTUATION. CONTROL POWER FOR ASV-204 IS SUPPLIED FROM DPDP-8A FUSE #15.</p>
<p>REFERENCES: DRAWING 208-008 AS-07</p>
<p>SENSING ELEMENT: ASV-204 LS(13), 27ASV-204 RELAY</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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EMERG FW
VALVE
NOT FULL OPEN

EVENT POINT 1194

INDICATED CONDITION: <ul style="list-style-type: none"> ○ EFV-14 NOT FULL OPEN.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none"> ○ EFV-14 POSITION INDICATION.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none"> ○ INVESTIGATE CLOSURE OF EFV-14.
DISCUSSION:
REFERENCES: DRAWING 208-026 EF-9
SENSING ELEMENT: EFV-14 FULL OPEN LIMIT SWITCH

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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EMERG FW
 VALVE
 NOT FULL OPEN

EVENT POINT 1196

INDICATED CONDITION:

- o EFV-33 NOT FULL OPEN.

REDUNDANT INDICATION WHICH WILL VERIFY ALARM:

- o EFV-33 POSITION INDICATION.

OPERATOR ACTIONS FOR A VALID ALARM:

- o INVESTIGATE CLOSURE OF EFV-33.

DISCUSSION:

REFERENCES: DRAWING 208-026 EF-11

SENSING ELEMENT: EFV-33 FULL OPEN LIMIT SWITCH

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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EMERG FW
VALVE
NOT FULL OPEN

EVENT POINT 1255

INDICATED CONDITION: <ul style="list-style-type: none">o EFV-3 NOT FULL OPEN.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o EFV-3 POSITION INDICATION.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CLOSURE OF EFV-3.
DISCUSSION:
REFERENCES: DRAWING 208-026 EF-02
SENSING ELEMENT: EFV-3 FULL OPEN LIMIT SWITCH

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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**EMERG FW
VALVE
NOT FULL OPEN**

EVENT POINT 1256

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> o EFV-4 NOT FULL OPEN.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> o EFV-4 POSITION INDICATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> o INVESTIGATE CLOSURE OF EFV-4.
<p>REFERENCES: DRAWING 208-026 EF-03</p>
<p>SENSING ELEMENT: EFV-4 FULL OPEN LIMIT SWITCH</p>

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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EMERG FW
VALVE
NOT FULL OPEN

EVENT POINT 1262

INDICATED CONDITION: <ul style="list-style-type: none">o EFV-7 NOT FULL OPEN.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: <ul style="list-style-type: none">o EFV-7 POSITION INDICATION.
OPERATOR ACTIONS FOR A VALID ALARM: <ul style="list-style-type: none">o INVESTIGATE CLOSURE OF EFV-7.
DISCUSSION:
REFERENCES: DRAWING 208-026 EF-04
SENSING ELEMENT: EFV-7 FULL OPEN LIMIT SWITCH

PSA-Z ANNUNCIATOR RESPONSE	PSA-Z-08-06	H-08-06
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EMERG FW
VALVE
NOT FULL OPEN

EVENT POINT 1263

<p>INDICATED CONDITION:</p> <ul style="list-style-type: none"> ○ EFV-8 NOT FULL OPEN.
<p>REDUNDANT INDICATION WHICH WILL VERIFY ALARM:</p> <ul style="list-style-type: none"> ○ EFV-8 POSITION INDICATION.
<p>OPERATOR ACTIONS FOR A VALID ALARM:</p> <ul style="list-style-type: none"> ○ INVESTIGATE CLOSURE OF EFV-8.
<p>DISCUSSION:</p>
<p>REFERENCES: DRAWING 208-026 EF-05</p>
<p>SENSING ELEMENT: EFV-8 FULL OPEN LIMIT SWITCH</p>

