Respond to Panel Alarms at 204-AR

Tank Farm Alarm Response Procedure

AY Farm Transfers

USQ # GCX-2

Table of Contents

NOTE - Annunciator numbers are provided for convenience and clarity in this procedure. The annunciator panel is not numbered.

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Description</th>
<th>Color</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-2</td>
<td>Radiation HI-FAIL (AR204-VT-RAH-510) EF-1 Exhaust Stack (INACTIVE)</td>
<td>White</td>
<td>3</td>
</tr>
<tr>
<td>A-3</td>
<td>Radiation Hi-Fail (RA-UNL-1C) RR Car unloading Room Air (INACTIVE)</td>
<td>White</td>
<td>4</td>
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<tr>
<td>A-4</td>
<td>Radiation Hi-Fail (RA-UNL-1D) RR Car unloading Room Area (INACTIVE)</td>
<td>White</td>
<td>5</td>
</tr>
<tr>
<td>A-5</td>
<td>Level Low AR204-WT-LAL-101 Catch Tank</td>
<td>White</td>
<td>6</td>
</tr>
<tr>
<td>A-6</td>
<td>Level High AR204-WT-LAH-101 Catch Tank</td>
<td>White</td>
<td>7</td>
</tr>
<tr>
<td>A-7</td>
<td>Interlock Bypass Active (YA-1 Leak Detn/MOV-2 Wt Factor) (INACTIVE)</td>
<td>White</td>
<td>8</td>
</tr>
<tr>
<td>A-8</td>
<td>Leak Detected (AR204-WT-LDA-101) Catch Tank Sump</td>
<td>White</td>
<td>9</td>
</tr>
<tr>
<td>A-9</td>
<td>Flow Low (AR204-WT-FAL-128) Liquid Waste To Tk Farm (INACTIVE)</td>
<td>White</td>
<td>10</td>
</tr>
<tr>
<td>A-10</td>
<td>Leak Detected (LDA-LIQW-1A) VP-241-A-A/Line 3”-LIQW-702-M8 (INACTIVE)</td>
<td>White</td>
<td>11</td>
</tr>
<tr>
<td>A-11</td>
<td>Fan Failure (FA-HVAC-1A) Exhaust Fan EF-1 (INACTIVE)</td>
<td>White</td>
<td>12</td>
</tr>
<tr>
<td>A-12</td>
<td>Operating Alarm (OA-RD-1) Outer Door</td>
<td>White</td>
<td>13</td>
</tr>
<tr>
<td>A-13</td>
<td>Operating Alarm (OA-DD-1) Inner Door</td>
<td>White</td>
<td>14</td>
</tr>
<tr>
<td>A-14</td>
<td>Low Flow (AR204-VT-FAL-510) Exh Stack Monitor (INACTIVE)</td>
<td>White</td>
<td>15</td>
</tr>
<tr>
<td>A-15</td>
<td>Radiation Hi-Fail (RA-UNL-1B) Sample Sink Area (INACTIVE)</td>
<td>White</td>
<td>16</td>
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</table>

Change History (≤ last 5 Rev-Mods)

<table>
<thead>
<tr>
<th>Rev-Mod</th>
<th>Release Date</th>
<th>Justification</th>
<th>Summary of Changes</th>
</tr>
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<tbody>
<tr>
<td>F-0</td>
<td>07/13/2016</td>
<td>Periodic Review</td>
<td>No changes identified.</td>
</tr>
<tr>
<td>E-0</td>
<td>03/21/2014</td>
<td>Periodic review comments incorporation from Engineering.</td>
<td>Deleted Automatic Actions for 204AR Catch Tank and Sump.</td>
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<tr>
<td>D-3</td>
<td>05/02/2013</td>
<td>Global Change per ARP-T-251-00003 G-1. Inconsequential change to change procedure use type to Reference.</td>
<td>Change procedure use type in the footer to Reference.</td>
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<tr>
<td>D-2</td>
<td>07/11/2012</td>
<td>Operations request to update to current status of alarms.</td>
<td>Changed title. Removed fire responses. Inactivated alarms on pages 8, 11, 14, 15, 16, 19, 20, 23, 24 and 25. Updated immediate action steps on pages 9, 10, 12, 17 and 18. Updated Figure 1 annunciator panel arrangement.</td>
</tr>
</tbody>
</table>
Respond to Panel Alarms at 204-AR

A-16  Radn High (RM-ME-1A) Mech Eqpt Room (INACTIVE)  White .......................... 17
A-17  CAM Failure (RM-ME-1B) Mech Eqpt Room (INACTIVE)  White .......................... 18
A-18  Low Diff Press DPIAS-2 Primary HEPA Filter (INACTIVE)  White .......................... 19
A-19  Low Diff Press DPIAS-1 Secondary HEPA Filter (INACTIVE)  White .......................... 20
A-22  Pressure Alarm (AR204-WT-PSA-102) Waste Transfer Line LIQW-702 TO TK FARM (INACTIVE) White........ 21

Figure 1 – Annunciator Panel Arrangement ........................................................................................................... 22

Figure 2 - Building Layout .................................................................................................................................... 23

RECORDS

No records are generated during the performance of this procedure.
Facility: 204-AR

Panel: N/A  Alarm #: ANNUNCIATOR #2

Source: AR204-VT-CAM-510  Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

Reference

Drawings: None
Documents: None
Facility: 204-AR

Panel: N/A  
Alarm #: ANNUNCIATOR #3

Source: RM-UNL-1C  
Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes:  None

References:

Drawings:  None
Documents:  None

RADIATION HI-FAIL  
(RA-UNL-1C) RR CAR  
UNLOADING ROOM AIR  
(INACTIVE)
Facility: 204-AR

Panel: N/A  Alarm #: ANNUNCIATOR #4

Source: RM-UNL-1D  Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

Reference:

Drawings: None
Documents: None
Respond to Panel Alarms at 204-AR

Facility: 204-AR

Panel: N/A

Source: AR204-WT-LAS-101B

Alarm #: ANNUNCIATOR #5

Setpoint: 150 gal (7.2” WG)

Level Low
AR204-WT-LAL-101
CATCH TANK

Alarm Class: Environmental Impact

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Immediate Actions:

[1] NOTIFY Shift Manager.
[2] TERMINATE any 204-AR transfers in progress according to the transfer procedure in use.
[3] CHECK catch tank sump for level increase.

Possible Causes:

1. Low level in Catch Tank.
2. Level instrument/air supply failure.
3. Possible leak in Catch Tank.

References:

Drawings: H-2-70695, Sheet 2 of 8, H-14-020814, Sht. 1, LOOP 2R025-2
Documents: RPP-16922, Environmental Specification Requirements
Facility: 204-AR

Panel: N/A  Alarm #: ANNUNCIATOR #6

Source: AR204-WT-LAS-101A  Setpoint: 1000 gal

Alarm Class: Environmental Impact

Automatic Actions: None

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Immediate Actions:

1. NOTIFY Shift Manager.
2. TERMINATE all physically connected transfers in progress according to the transfer procedure in use.
3. IF a visual observation of the facility finds indications of a waste surface pool, NOTIFY Shift Manager of findings AND RECOMMEND response per TF-AOP-011.

Possible Causes:

1. Process isolation valve leaking.
2. Leakage or overflow from Mechanical Equipment Room tanks.
3. Level has exceeded 1000 gallons.

References:

Drawings: H-2-70695, Sheet 2 of 8, H-14-020814, Sheet 1, H-14-021814, Sheet 1, H14-022214, Sheet 1, LOOP 2R025-4

Documents: TF-AOP-011, Response to Chemical and/or Radiological Events RPP-16922, Environmental Specification Requirements
Facility: 204-AR

Panel: N/A  
Alarm #: ANNUNCIATOR #7

Source: AR204-WT-SS-129 or AR204-WT-SS-130 selected to BYPASS  
Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

References:
- Drawings: None
- Documents: None
Facility: 204-AR

Panel: N/A  
Alarm #: ANNUNCIATOR #8

Source: AR204-WT-LDK-101  
Setpoint: None

Alarm Class: Environmental Impact

Automatic Actions: None

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Immediate Actions:

1. NOTIFY Shift Manager.
2. TERMINATE any 204-AR transfers in progress according to the transfer procedure in use.
3. IF a visual observation of the facility finds indications of a waste surface pool, NOTIFY Shift Manager of findings AND RECOMMEND response per TF-AOP-011.

Possible Causes:

1. Process leakage
2. Tank overflow.

References:

Drawings: H-2-70695, Sheet 2 of 8, H-14-020814, Sheet 1, LOOP 2R082-3
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events RPP-16922, Environmental Specification Requirements
Facility: 204-AR

Panel: N/A

Alarm #: ANNUNCIATOR #9

Source: AR204-WT-FSL-128

Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

References:

Drawings: None
Documents: None
Respond to Panel Alarms at 204-AR

<table>
<thead>
<tr>
<th>Facility: 204-AR</th>
</tr>
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<tbody>
<tr>
<td>Panel: N/A</td>
</tr>
<tr>
<td>Alarm #:</td>
</tr>
<tr>
<td>ANNUNCIATOR #10</td>
</tr>
<tr>
<td>Source: LD-3 and LD3-A</td>
</tr>
<tr>
<td>Setpoint: N/A</td>
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<tr>
<td>Alarm Class: N/A</td>
</tr>
<tr>
<td>Automatic Actions: None</td>
</tr>
<tr>
<td>Immediate Actions: No Response Required</td>
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<tr>
<td>Possible Causes: None</td>
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<tr>
<td>References:</td>
</tr>
<tr>
<td>Drawings: None</td>
</tr>
<tr>
<td>Documents: None</td>
</tr>
</tbody>
</table>

WHITE

LEAK DETECTED (LDA-LIQW-1A)
VP-241-A-A/LINE
3”-LIQW-702-M8 (INACTIVE)
Facility: 204-AR

Panel: N/A

Source: DPIAS-1, DPIAS-2, or PS-HVAC-1

Alarm #: ANNUNCIATOR #11

Setpoint: N/A

Alarm Class: N/A

Automatic Actions: None

Immediate Actions: No Response Required

Possible Causes: None

References:

- Drawings: None
- Documents: None
Facility: 204-AR

Panel: N/A  Alarm #: ANNUNCIATOR #12

Source: MS-RD-1A  Setpoint: None

Alarm Class: Equipment Status

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Immediate Actions:

[1] CHECK outer door.
[2] IF door is not open for a work activity, NOTIFY Shift Manager/OE

Possible Causes:

1. Roll-up door not closed.

References:

Drawings: H-2-70695, Sheet 2 of 8
Documents: None
Facility: 204-AR

Panel: N/A   Alarm #: ANNUNCIATOR #13

Source: MS-DD-1A   Setpoint: None

Alarm Class: Equipment Status

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Immediate Actions:

[1] CHECK inner double doors.
[2] IF doors are not open for a work activity, NOTIFY Shift Manager/OE

Possible Causes:

1. Double doors not closed.

References:

Drawings: H-2-70695, Sheet 2 of 8
Documents: None
Respond to Panel Alarms at 204-AR

Facility: 204-AR

Panel: N/A

Alarm #: ANNUNCIATOR #14

Source: AR204-VT-FSL-511 or AR204-VT-FSL-521

Setpoint: N/A

WHITE

LOW FLOW
(AR204-VT-FAL-510)
EXH STACK MONITOR

(INACTIVE)

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

References:

Drawings: None
Documents: None
Respond to Panel Alarms at 204-AR

Facility: 204-AR

Panel: N/A

Alarm #: ANNUNCIATOR #15

Source: RM-UNL-1B

Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

References:

Drawings: None
Documents: None
Facility: 204-AR

Panel: N/A
Source: RM-MR-1
Alarm Class: N/A

Alarm #: ANUNCIATOR #16
Setpoint: N/A

Automatic Actions: None
Immediate Actions: No Response Required
Possible Causes: None

References:
- Drawings: None
- Documents: None
Facility: 204-AR

Panel: N/A

Source: RM-MR-1

Alarm #: ANNUNCIATOR #17

Setpoint: None

Alarm Class: N/A

Automatic Actions: None

Immediate Actions: No Response Required

Possible Causes: None

References:

Drawings: None

Documents: None
Respond to Panel Alarms at 204-AR

Facility: 204-AR
Panel: N/A
Source: DPIAS-2

Alarm #: ANNUNCIATOR #18
Setpoint: N/A

Alarm Class: N/A
Immediate Actions: No Response Required
Possible Causes: None

References:
Drawings: None
Documents: None
Facility: 204-AR

Panel: N/A
Source: DPIAS-1

Alarm #: ANNUNCIATOR #19
Setpoint: N/A

Alarm Class: N/A

Immediate Actions: No Response Required

Possible Causes: None

References:
- Drawings: None
- Documents: None
Facility: 204-AR

Panel: N/A

Source: AR204-WT-PS-102

Alarm #: ANNUNCIATOR #22

Setpoint: N/A

Alarm Class: N/A

Alarm Description: Pressure alarm (AR204-WT-PSA-102) waste transfer line LIQW-702 to tank farm (INACTIVE)

Automatic Actions: None

Immediate Actions: No Response Required

Possible Causes: None

References:
- Drawings: None
- Documents: None
Figure 1 – Annunciator Panel Arrangement

NOTE - The numbers provided in this figure are to illustrate the sequencing for correlating the alarms in the procedure with the alarm panel. These numbers are not on the alarm panel.

<table>
<thead>
<tr>
<th>A-1</th>
<th>A-2</th>
<th>A-3</th>
<th>A-4</th>
<th>A-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>(INACTIVE - NOT USED)</td>
<td>(INACTIVE)</td>
<td>(INACTIVE)</td>
<td>(INACTIVE)</td>
<td>(INACTIVE)</td>
</tr>
<tr>
<td>RADIATION HI-FAIL (AR204-VT-RAH-510) EF-1 EXHAUST STACK</td>
<td>RADIATION HI-FAIL (RA-UNL-1C) RR CAR UNLOADING ROOM AIR</td>
<td>RADIATION HI-FAIL (RA-UNL-1D) RR CAR UNLOADING RM AREA</td>
<td>LEVEL LOW (AR204-WT-LAH-101) CATCH TANK</td>
<td></td>
</tr>
<tr>
<td>A-6</td>
<td>A-7</td>
<td>A-8</td>
<td>A-9</td>
<td>A-10</td>
</tr>
<tr>
<td>LEVEL HIGH (AR204-WT-LAH-101) CATCH TANK</td>
<td>INTERLOCK BYPASS ACTIVE YA-1 LEAK DETN/MOV-2 WT FACTOR</td>
<td>LEAK DETECTED (AR204-WT-LDA-101) CATCH TANK SUMP</td>
<td>FLOW LOW (AR204-WT-FAL-128) LIQUID WASTE TO TK FARM</td>
<td>LEAK DETECTED (LDA-LIQW-1A) VP-241-A-A/LINE 3” LIQW-701-M8</td>
</tr>
<tr>
<td>A-11</td>
<td>A-12</td>
<td>A-13</td>
<td>A-14</td>
<td>A-15</td>
</tr>
<tr>
<td>FAN FAILURE (FA-HVAC-1A) EXHAUST FAN EF-1 (INACTIVE)</td>
<td>OPERATING ALARM (OA-RD-1) OUTER DOOR</td>
<td>OPERATING ALARM (OA-DD-1) INNER DOOR</td>
<td>LOW FLOW (AR204-VT-FAL-510) EXH STACK MONITOR (INACTIVE)</td>
<td>RADIATION HI-FAIL (RA-UNL-1B) SAMPLE SINK AREA (INACTIVE)</td>
</tr>
<tr>
<td>A-16</td>
<td>A-17</td>
<td>A-18</td>
<td>A-19</td>
<td>A-20</td>
</tr>
<tr>
<td>RADIATION HI-FAIL (RM-ME-1A) MECH EQPT ROOM (INACTIVE)</td>
<td>CAM FAILURE (RM-ME-1B) MECH EQPT ROOM</td>
<td>LOW DIFF PRESS DPIAS-2 PRIMARY HEPA FILTER (INACTIVE)</td>
<td>LOW DIFF PRESS DPIAS-1 SECONDARY HEPA FILTER</td>
<td>(INACTIVE - NOT USED)</td>
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<td>SILENCE TEST</td>
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Type: REFERENCE
Document No.: ARP-T-291-00001
Rev/Mod: F-0
Release Date: 07/13/2016
Page: 22 of 24
Respond to Panel Alarms at 204-AR

Figure 2 - Building Layout
Respond to Panel Alarms at 204-AR

Figure 2 - Building Layout (Cont.)

- SOILED CLOTHES BIN
- CLEAN CLOTHES CABINET
- DRINKING FOUNTAIN
- CONTROL ROOM
- CONTROL PANELS
- Alarm Panel
- Mezzanine Shelf
- Eyewash Sample Sink Area
- Lead-Glass Viewing Window
- Sampler
- Floor Drain
- Tank Car Access Ramp
- Floor

SECOND FLOOR