# Respond to Aqueous Makeup Graphic #19 Alarms at the 242-A Evaporator

**Tank Farm Alarm Response Procedure**

**242-A Evaporator**

**USQ # GCX-2**

## 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>J-0</td>
<td>09/13/2016</td>
<td>Periodic review</td>
<td>No changes identified.</td>
</tr>
<tr>
<td>I-0</td>
<td>09/09/2014</td>
<td>Periodic review comment resolution</td>
<td>No changes identified. Updated footer.</td>
</tr>
<tr>
<td>H-1</td>
<td>05/02/2013</td>
<td>Global Change per ARP-T-231-00101 G-4. Inconsequential change to change procedure use type to Reference.</td>
<td>Change procedure use type in the footer to Reference.</td>
</tr>
<tr>
<td>H-0</td>
<td>09/06/2012</td>
<td>Periodic review comments incorporation</td>
<td>Last step reworded to address formatting and conditions to enter Step. Rworded Step 3.1 of WFI-E102 both Low and Low-Low alarms. Rworded Step 1.1 of YS-P-E102 and YS-A-E102. Moved Graphic/Faceplate to be after equipment nomenclature.</td>
</tr>
<tr>
<td>G-1</td>
<td>03/15/2010</td>
<td>Operations/Engineering request to address ECN-726833</td>
<td>Deleted alarms no longer monitored in the control room or addressed by this procedure.</td>
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## 242-A Evaporator Graphic #19 Alarm Index

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<td>WFI-E102</td>
<td>HIGH..............ANTIFOAM TANK WT FACTR</td>
<td>YELLOW</td>
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<tr>
<td>WFI-E102</td>
<td>LOW..............ANTIFOAM TANK WT FACTR</td>
<td>WHITE</td>
<td>3</td>
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<tr>
<td>WFI-E102</td>
<td>LOW-LOW .......ANTIFOAM TANK WT FACTR</td>
<td>WHITE</td>
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<tr>
<td>YS-P-E102</td>
<td>..................................................ANTIFOAM PUMP MOTOR CONFIRM</td>
<td>WHITE</td>
<td>5</td>
</tr>
<tr>
<td>YS-A-E102</td>
<td>..................................................ANTIFOAM AGITATOR MOTOR CONFIRM</td>
<td>WHITE</td>
<td>6</td>
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</table>

## Records

No records are generated during the performance of this procedure.
Respond to Aqueous Makeup Graphic #19 Alarms at the 242-A Evaporator

Facility: 242-A Evaporator

Graphic: 19  Alarm #: N/A
Panel: N/A

Source: WFT-E102-1  Setpoint: 25 inches

Alarm Class: Equipment Status
Alarm Description: ANTIFOAM TANK WT FACTR (HIGH) (F35); liquid level in TK-E-102 has reached the high Alarm setpoint.

Automatic Actions:
None

Immediate Actions:

[1] CHECK WFI-E102 (G19, F35/8) ANTIFOAM TANK WT FACTR.

NOTE - The overflow level for TK-E-102 is 27 inches; TK-E-102 overflows to TK-102-AW.

[3] CHECK WFI-E102 (G19, F35/8) ANTIFOAM TANK WT FACTR reading to determine if TK-E-102 is near the overflow level.

Probable Causes:
2. Ongoing maintenance PM.
3. Instrument malfunction.

References:

Drawings: H-2-99000, Zone D-5
Documents: TO-660-141, “Inject Anti-Foam Chemicals into the 242-A Vapor/Liquid Separator C-A-1.”
Facility: 242-A Evaporator

Graphic: 19

Panel: N/A

Source: WFT-E102-1

Alarm #: N/A

Setpoint: 12 inches

Alarm Class: Equipment Status

Alarm Description: ANTIFOAM TANK WT FACTR (LOW) (F35); a low liquid level in TK-E-102.

Automatic Actions:
1. Activates Interlock #27A, which shuts down agitator A-E-102.

Immediate Actions:

[1] CHECK WFI-E102 (G19, F35/8) ANTIFOAM TANK WT FACTR.

[2] CHECK that A-E-102 (G19/4, F35/14) ANTIFOAM TANK AGITATOR status is CF-OFF and INTERLOK.

[3] IF A-E-102 status is not CF-OFF, PERFORM the following actions to shut down the agitator:

[3.1] IF shutting down the agitator from the MCS, SELECT A-E-102 (G19/4, F35/14) ANTIFOAM TANK AGITATOR AND

PRESS CMD 0 twice.

OR

IF shutting down the agitator locally, PRESS Agitator A-E-102 STOP button HS-E102-1, located on the TK-E-102 Instrument panel in the AMU Room.

Probable Causes:

1. Low level in TK-E-102.
2. Ongoing maintenance PM.
3. Instrument malfunction.

References:

Drawings: H-2-99000, Zone D-5
Documents: TO-660-141, “Inject Anti-Foam Chemicals into the 242-A Vapor/Liquid Separator C-A-1”
Respond to Aqueous Makeup Graphic #19 Alarms at the 242-A Evaporator

Facility: 242-A Evaporator

Graphic: 19   Alarm #: N/A
Panel: N/A

Source: WFT-E102-1   Setpoint: 5 inches

Alarm Class: Equipment Status
Alarm Description: ANTIFOAM TANK WT FACTR (LOW-LOW) (F35); a low-low level in the antifoam tank.

Automatic Actions:
1. Activates Interlock #27B, which shuts down pump P-E-102.

Immediate Actions:
[1] CHECK WFI-E102 (G19, F35/8) ANTIFOAM TANK WT FACTR.
[2] CHECK that P-E-102 (G19/7, F35/9) ANTIFOAM TANK PUMP status is CF-OFF and INTERLOK.
[3] IF P-E-102 status is NOT CF-OFF, PERFORM the following actions to shut down the pump:
   [3.1] IF shutting down the pump from the MCS, SELECT P-E-102 (G19/7, F35/9) ANTIFOAM TANK PUMP AND
       PRESS CMD 0 twice.
       OR
       IF shutting down the pump locally, PRESS Pump P-E-102 STOP button HS-E102-2, located on the TK-E-102 Instrument panel in the AMU Room.

Probable Causes:
1. Low-Low level in TK-E-102.
2. Ongoing maintenance PM.
3. Instrument malfunction.

References:
Drawings: H-2-99000, Zone D-5
Documents: TO-660-141, “Inject Anti-Foam Chemicals into the 242-A Vapor/Liquid Separator C-A-1”
Respond to Aqueous Makeup Graphic #19 Alarms at the 242-A Evaporator

Facility: 242-A Evaporator

Graphic: 19  
Alarm #: N/A

Panel: N/A

Source: P-E-102 MCC  
Setpoint: Pump Motor started

Alarm Class: Equipment Status

Alarm Description: ANTIFOAM PUMP MOTOR CONFIRM (F35); this is a status indicator for Anti-Foam Pump P-E-102.

Automatic Actions:
  None

Immediate Actions:

[1]  IF pump P-E-102 is ON but should be OFF, PERFORM the following:

[1.1]  IF shutting down the pump from the MCS, SELECT P-E-102 (G19/7, F35/9) ANTIFOAM TANK PUMP AND

  PRESS CMD 0 twice.

  OR

  IF shutting down the pump locally, PRESS the PUMP P-E-102 STOP button HS-E102-2, located on the Anti-Foam Tank Instrument Panel in the AMU Room.

Probable Causes:

1. Pump operating.
2. Instrument malfunction.

References:

Drawings:  H-2-99000, Zone D-5
Documents:  TO-660-141, “Inject Anti-Foam Chemicals into the 242-A Vapor/Liquid Separator C-A-1”
Respond to Aqueous Makeup Graphic #19 Alarms at the 242-A Evaporator

Facility: 242-A Evaporator

Graphic: 19  Alarm #: N/A
Panel: N/A
Source: A-E-102 MCC  Setpoint: Agitator Motor started

Alarm Class: Equipment Status
Alarm Description: ANTIFOAM AGITATOR MOTOR CONFIRM (F35); this is a status indicator for Anti-Foam Tank Agitator A-E-102.

Automatic Actions:
None

Immediate Actions:

[1] IF agitator A-E-102 is ON but should be OFF, PERFORM the following:

[1.1] IF shutting down the agitator from MCS, SELECT A-E-102 (G19/4, F35/14) ANTIFOAM TANK AGITATOR AND PRESS CMD 0 twice.

OR

IF shutting down the agitator locally, PRESS the AGITATOR A-E-102 STOP button HS-E102-1, located on the Anti-Foam Tank Instrument Panel in the AMU Room.

Probable Causes:

1. Agitator Operating.

References:

Drawings: H-2-99000, Zone E-4
Documents: TO-660-141, “Inject Anti-Foam Chemicals into the 242-A Vapor/Liquid Separator C-A-1”