Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Tank Farm Alarm Response Procedure  AY/AZ Farm

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>I-1</td>
<td>10/31/2018</td>
<td>Periodic Review</td>
<td>Updated format and editorial changes.</td>
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<tr>
<td>I-0</td>
<td>05/21/2015</td>
<td>All changes are as a result of the periodic review process.</td>
<td>No technical changes were made during this periodic review.</td>
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<tr>
<td>H-0</td>
<td>06/26/2013</td>
<td>All changes are as a result of the periodic review process.</td>
<td>No technical changes were made during this periodic review.</td>
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<tr>
<td>G-1</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>G-0</td>
<td>07/25/2011</td>
<td>Periodic review comment incorporation</td>
<td>No changes identified during this periodic review.</td>
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GRAPHIC #22 BUILDING TEMP CONTROL ALARM INDEX

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RECORDS

No records are generated during the performance of this procedure.
1.0 PURPOSE

1.1 This attachment provides guidance to operators for responding to alarms associated with the AY/AZ ventilation system.

1.2 Section 2.0 provides guidance to operators for starting up the Monitor and Control System so that they may determine current alarm status if the system is not on line when they report to the control room.

2.0 OPERATION

2.1 IF system does not respond and appears to be locked, REFER to procedure TO-060-356, Perform 702-AZ Exhauster Monitor and Control System Operations for instructions on re-setting and re-booting system AND RETURN to this procedure.

2.2 OPERATE system in accordance with procedure TO-060-356.
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, Stack Monitoring Room

Graphic: 22  Alarm #: 1

Source: TI-702K2-1  Setpoint: 90 degrees F

YELLOW

TI-702K2-1
HI

Alarm Class: Area Status
Alarm Description: Stack Monitoring Room Temperature (HIGH)

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 system status and operating parameters on MONITOR CONTROL SYSTEM Graphic 19, Bldg Vent Supply.

[2] IF 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is shut down, ATTEMPT to return unit to service via MONITOR CONTROL SYSTEM.

[2.1] IF unit will not return to service, NOTIFY Shift Manager.

[3] IF MONITOR CONTROL SYSTEM checks indicate that the system is operating, PERFORM the following:

[3.1] CHECK Building 702-AZ Ventilation Thermostat TIC-AZ702K206-1 in Monitor Room has a temperature setpoint less than 80 degrees F.

[3.2] CHECK MK-AZ702K2-1A1, MK-AZ702K2-1A2, and MK-AZ702K2-1B damper positions AND IF needed, OPEN.

[3.3] CHECK that 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is operational.


Possible Causes:

1. Instrument failure or malfunction.
2. If the Building Exhaust fans AZ702-K3-5-1A or AZ702-K3-5-1B are not running, the Beta/Gamma monitor sampling pump will shut down.
3. On going maintenance PM.

References:

Drawings: H-14-021307, Sheet 1
Facility: 702-AZ Building, Stack Monitoring Room

Graphic: 22  Alarm #: 1

Source: TI-702K2-1  Setpoint: 110 degrees F

Alarm Class: Area Status
Alarm Description: Stack Monitoring Room Temperature (HIGH HIGH)

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

Automatic Actions:
1. Relief damper MK-AZ702K2-6A and MK-AZ702K2-6B open, unless override is on.

Immediate Actions:
[1] ENSURE all actions for TI-702K2-1 HI TEMPERATURE alarm have been completed.

Possible Causes:
1. AZ702-K2-6-1 Air Conditioning unit Failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. On going maintenance PM (e.g., Vent and Balance).

References:
Drawings: H-14-021307, Sheet 1
Facility: 702-AZ Building, Stack Monitoring Room

Graphic: 22  Alarm #: 1

Source: TI-702K2-1  Setpoint: -41.25 degrees F

Alarm Class: Area Status

Alarm Description: Stack Monitoring Room Temperature (OE)

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

- This alarm notifies the operator of the inability of the temperature control dampers to open at 110 degrees F.

Immediate Actions:

[1] MONITOR AZ702-K2-6-1 for proper operation.

[2] IF AZ702-K2-6-1 is not running properly, and Stack Monitor Room temperature exceeds 110 degrees F, OPEN MK-AZ702K2-6A and MK-AZ702K2-6B.

[3] IF Stack Monitor Room temperature drops below 90 degrees F, CLOSE MK-AZ702K2-6A and MK-AZ702K2-6B.


Possible Causes:

1. Lifted lead, broken wire, loss of power, loss of communication.
2. Equipment malfunction.
3. Maintenance/PMs.

References:

Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, E/I Room A

Graphic: 22  Alarm #: 2

Source: TI-702K2-2  Setpoint: 90 degrees F

Alarm Class: Area Status

Alarm Description: E/I Room A Temperature (HIGH)

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 system status and operating parameters on MONITOR CONTROL SYSTEM Graphic 19, Bldg Vent Supply.

[2] IF 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is shut down, ATTEMPT to return unit to service via MONITOR CONTROL SYSTEM.
   [2.1] IF unit will not return to service, NOTIFY the Shift Manager.

[3] IF MONITOR CONTROL SYSTEM checks indicate the system is operating, PERFORM the following:
   [3.1] CHECK Building 702-AZ Ventilation Thermostat TIC-AZ702K206-1 in Monitor Room has a temperature setpoint less than 80 degrees F.
   [3.2] CHECK MK-AZ702K2-4A and MK-AZ702K2-4B damper positions AND IF needed, OPEN.
   [3.3] CHECK that 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is operational.

[4] IF outside air temperature is less than 90 degrees F, OPEN door to E/I Room A.


(Continued on Next Page)
Facility: 702-AZ Building, E/I Room A

Graphic: 22  Alarm #: 2

Source: TI-702K2-2  Setpoint: 90 degrees F

YELLOW

TI-702K2-2
HI

(Continued)

Possible Causes:

1. AZ702-K2-6-1 Air Conditioning unit failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. Ongoing maintenance PM (e.g., vent and balance).

References:

Drawings: H-14-021307, Sheet 1
Facility: 702-AZ Building, E/I Room A

Graphic: 22  
Alarm #: 2

Source: TI-702K2-2  
Setpoint: 110 degrees F

Alarm Class: Area Status

Alarm Description: E/I Room A Temperature (HIGH HIGH)

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

Automatic Actions:
1. Relief damper MK-AZ702K2-7A and MK-AZ702K2-7B open, unless override is on.

Immediate Actions:
[1] ENSURE all actions for TI-702K2-2 E/I ROOM A TEMPERATURE (HI) alarm have been completed.

Possible Causes:
1. AZ702-K2-6-1 Air Conditioning unit Failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. On going maintenance PM (e.g., Vent and Balance).

References:
Drawings: H-14-021307, Sheet 1
Facility: 702-AZ Building, E/I Room A

Graphic: 22  Alarm #: 2
Source: TI-702K2-2  Setpoint: -41.25 degrees F

Alarm Class: Area Status
Alarm Description: E/I Room A Temperature (OE)

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, "expected" alarms generated by approved work activities or procedures.
- This alarm notifies the operator of the inability of the temperature control dampers to open at 110 degrees F.

Immediate Actions:

[1] MONITOR AZ702-K2-6-1 for proper operation.
[2] IF AZ702-K2-6-1 is not running properly and Stack Monitor Room temperature exceeds 110 degrees F, OPEN MK-AZ702K2-7A and MK-AZ702K2-7B.

Possible Causes:
1. Lifted lead, broken wire, loss of power, loss of communication.
2. Equipment malfunction.
3. Maintenance/PMs.

References:
Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, Filter A Room

Graphic: 22  Alarm #: 3

Source: TI-702K2-4  Setpoint: 120 degrees F

Alarm Class: Area Status

Alarm Description: Filter Room A Temperature (HIGH)

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 system status and operating parameters on MONITOR CONTROL SYSTEM Graphic 19, Bldg Vent Supply.

[2] IF 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is shut down, attempt to RETURN unit to service via MONITOR CONTROL SYSTEM.

[2.1] IF unit will not return to service, NOTIFY the Shift Manager.

[3] IF MONITOR CONTROL SYSTEM checks indicate the system is operating, PERFORM the following:

[3.1] CHECK Building 702-AZ Ventilation Thermostat TIC-AZ702K206-1 in Monitor Room has a temperature setpoint less than 80 degrees F.

[3.2] CHECK that 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is operational.


Possible Causes:

1. AZ702-K2-6-1 Air Conditioning unit failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. Ongoing maintenance PM (e.g., vent and balance).

References:

Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, Filter A Room

Graphic: 22  Alarm #: 3

Source: TI-702K2-4  Setpoint: -41.25 degrees F

Alarm Class: Area Status
Alarm Description: Filter Room A Temperature Indicator (OE)

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] ENSURE AZ702-K2-6-1 is running properly.

Possible Causes:
1. Lifted lead, broken wire, loss of power, loss of communication.
2. Equipment malfunction.
3. Maintenance/PMs.

References:
Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, E/I Room B

Graphic: 22  Alarm #: 4

Source: TI-702K2-3  Setpoint: 90 degrees F

Alarm Class: Area Status
Alarm Description: E/I Room B Temperature (HIGH)

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 system status and operating parameters on MONITOR CONTROL SYSTEM Graphic 19, Bldg Vent Supply.

[2] IF 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is shut down, ATTEMPT to return unit to service via MONITOR CONTROL SYSTEM.

[2.1] IF unit will not return to service, NOTIFY the Shift Manager.

[3] IF MONITOR CONTROL SYSTEM checks indicate the system is operating, PERFORM the following:

[3.1] CHECK Building 702-AZ Ventilation Thermostat TIC-AZ702K206-1 in Monitor Room has a temperature setpoint less than 80 degrees F.

[3.2] CHECK MK-AZ702K2-5A and MK-AZ702K2-5B damper positions AND IF needed, OPEN.

[3.3] CHECK that 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is operational.

[4] IF outside air temperature is less than 90 degrees F, OPEN door to E/I Room B.


(Continued on Next Page)
Facility: 702-AZ Building, E/I Room B

Graphic: 22  Alarm #: 4

Source: TI-702K2-3  Setpoint: 90 degrees F

Possible Causes:
1. AZ702-K2-6-1 Air Conditioning unit Failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. Ongoing maintenance PM (e.g., vent and balance).

References:
Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, E/I Room B

Graphic: 22  Alarm #: 4

Source: TI-702K2-3  Setpoint: 110 degrees F

Alarm Class: Area Status

Alarm Description: E/I Room B Temperature is very high

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

Automatic Actions:
1. Relief damper MK-AZ702K2-8A and MK-AZ702K2-8B open, unless override is on.

Immediate Actions:
[1] ENSURE all actions for TI-702K2-3 E/I ROOM B TEMPERATURE (HI) alarm have been completed.

Possible Causes:
1. AZ702-K2-6-1 Air Conditioning unit Failure.
2. Thermostat TIC-AZ702K206-1 setpoint has been altered.
3. Temperature Indicator failure.
4. On going maintenance PM (e.g., Vent and Balance).

References:
Drawings: H-14-021307, Sheet 1
Facility: 702-AZ Building, E/I Room B

Graphic: 22  Alarm #: 4

Source: TI-702K2-3  Setpoint: -41.25 degrees F

Alarm Class: Area Status
Alarm Description: E/I Room B Temperature (OE)

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

- This alarm notifies the operator of the inability of the temperature control dampers to open at 110 degrees F.

Immediate Actions:

[1] MONITOR AZ702-K2-6-1 for proper operation.
[2] IF AZ702-K2-6-1 is not running properly and Stack Monitor Room temperature exceeds 110 degrees F, OPEN MK-AZ702K2-8A and MK-AZ702K2-8B.

Possible Causes:

1. Lifted lead, broken wire, loss of power, loss of communication.
2. Equipment malfunction.
3. Maintenance/PMs.

References:

Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, Filter Room B

Graphic: 22  
Alarm #: 5

Source: TI-702K2-5  
Setpoint: 120 degrees F

alarm Class: Area Status

Alarm Description: Filter Room B Temperature is high

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 system status and operating parameters on MONITOR CONTROL SYSTEM Graphic 19, Bldg Vent Supply.

[2] IF 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is shut down, attempt to RETURN unit to service via MONITOR CONTROL SYSTEM.

[2.1] IF unit will not return to service, NOTIFY the Shift Manager.

[3] IF MONITOR CONTROL SYSTEM checks indicate that the system is operating, PERFORM the following:

[3.1] CHECK Building 702-AZ Ventilation Thermostat TIC-AZ702K206-1 in Monitor Room has a temperature setpoint less than 80 degrees F.

[3.2] CHECK that 702-AZ Building Air Conditioning Unit AZ702-K2-6-1 is operational.


Possible Causes:

1. AZ702-K2-6-1 Air Conditioning unit Failure

2. Thermostat TIC-AZ702K206-1 setpoint has been altered.

3. Temperature Indicator failure

4. Ongoing maintenance PM (e.g., vent and balance)

References:

Drawings: H-14-021307, Sheet 1
Respond to Monitor Control System Graphic #22 Building Temp Control Alarms

Facility: 702-AZ Building, Filter Room B

Graphic: 22  Alarm #: 5

Source: TI-702K2-5  Setpoint: -41.25 degrees F

Alarm Class: Area Status

Alarm Description: Filter Room B Temperature Indicator (OE)

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] ENSURE AZ702-K2-6-1 is running properly.

Possible Causes:

1. Lifted lead, broken wire, loss of power, loss of communication.
2. Equipment malfunction.
3. Maintenance/PMs.

References:

Drawings: H-14-021307, Sheet 1