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CHANGE HISTORY (≤ LAST 5 REV-MODS)

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<tr>
<th>Rev-Mod</th>
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<td>01/14/2019</td>
<td>DOE-0359 Change Implementation</td>
<td>Updated Safety section regarding preventative maintenance and applicable ERA to use.</td>
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<td>M-6</td>
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<td>Changes found in Periodic Review Process</td>
<td>Table on page 8 struck out EE 106494 3/4 ton yoke annual inspection row. Table on page 9 struck out rows: EE-107662 WT-CRN-2803 5-TON BRAKE LOAD TEST and EE-107335 WT-CRN-2803 LOAD OUT ROOM BRIDGE CRANE BRAKE TESTS Updated Records Section</td>
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<td>Operations request to reflect field conditions.</td>
<td>Removed &quot;#3&quot; to all crane console references. (pages, 3,7,11,13)</td>
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<td>M-3</td>
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<td>Field modifications</td>
<td>PMID requirements have been updated to reflect newly installed equipment and revised PMs. Changes are in the Field Preparation section only.</td>
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<td>5.0</td>
<td>PROCEDURE</td>
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<td>5.1</td>
<td>Operate Overhead Crane Normally</td>
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<td>Perform Emergency Lowering of Main Hoist</td>
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<td>5.3</td>
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<td>Records</td>
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Attachment 1 - 242-A Jumper Removal Instruction Sheet
Attachment 2 - 242-A Jumper Installation Instruction Sheet
Attachment 3 - 242-A Overhead Crane Frequent Inspection Check Sheet
Figure 1: Crane Control Panel
Figure 2: Crane Control Panel Locations
1.0 PURPOSE AND SCOPE

1.1 Purpose

To provide instructions for Process Crane Operators to safely operate the overhead crane at the 242-A Evaporator.

1.2 Scope

This procedure applies to the overhead crane located at the 242-A Evaporator and its associated equipment.

2.0 INFORMATION

2.1 General Information

2.1.1 When there is waste in the C-A-1 vessel, personnel are not allowed in the Load Out and Hot Equipment storage room when the overhead crane is in use.

2.1.2 Certified Process Crane Operators are responsible for operating the overhead crane at the 242-A Evaporator.

2.1.3 The crane console key is in the 242-A lock and key cabinet, and is labeled "Crane Console."

2.1.4 If the hoist motor or controls fail while a load is suspended, the main hoist may be lowered through the use of the emergency lowering circuit. This circuit momentarily releases the hoist brakes each time the emergency lowering control is operated. Repeated use of the control will lower the load to the ground. The interval for which the brakes are released is controlled by the time delay (TDO) relay. The time delay cannot be changed by turning and holding the key.

2.1.5 If the crane motor or controls fail with the crane positioned away from the maintenance platform, an Emergency Retrieval mechanism is employed to return the crane to a safe position for troubleshooting and maintenance.

2.1.6 The emergency retrieval mechanism operating button is located on the crane control panel on the south wall of the mezzanine walkway of the AMU room. The button must be pushed in to operate the retrieval mechanism and move the crane.
2.1 General Information (Cont.)

2.1.7 The emergency retrieval mechanism circuit is disabled if any Crane Console Control Power is "ON." By turning on one of the Control Power switches while observing the crane as it is retrieved, the second person may stop the crane and control its progress.

2.1.8 Crane retrieval system reset is NOT disabled by turning crane control console power "ON." The reset button must be released to stop the retrieval system movement. Since the retrieval mechanism cannot be observed from the location of the reset button, the Crane Retrieval System reset requires AT LEAST TWO process crane operators in POSITIVE COMMUNICATION.

2.1.9 There is a limit switch located on the retrieval take-up block on the north wall. When activated during an Emergency Retrieval of the overhead crane, this limit switch will stop the crane's travel. Then briefly reverse the retrieval motor to disengage the Emergency Retrieval chain drive from the crane before shutting the motor off.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Operation of electrical equipment and overcurrent protective devices shall be performed by a qualified person.

3.1.2 Component operation requires an Electrical Risk Assessment (ERA).

3.1.3 When the clean and inspects are current on the electrical equipment (breaker, switchgear, disconnects, motor starters, etc.), the ERA for normal operating condition is applicable, for those workers interacting with electrical equipment.

3.1.4 When the clean and inspects are delinquent, the ERA for non-normal operating condition is applicable, for those workers interacting with electrical equipment.

3.1.4.1 Use safety glasses and leather gloves when manipulating electrical components per the normal ERA.

3.1.5 When the clean and inspects are delinquent, the ERA for non-normal operating condition is applicable, for those workers interacting with electrical equipment.
3.1 Personnel Safety (Cont.)

The following are the General Rules for Crane Operation that should be reviewed before each job:

- Never operate a crane that is unsafe in any way
- Report any discrepancies creating an unsafe condition to supervision and assure repairs are complete before continuing
- Always inspect crane before use to assure that cables are on the blocks and aligned in the groove
- If work is to be performed on the crane, assure the Main Power Switch is locked and tagged in the OFF position
- If inspections or adjustments require equipment to be operated under observation, obtain supervision approval and assure proper safety precautions are met before continuing
- When the crane is being operated, a “242-A Overhead Crane Frequent Inspection Check Sheet” must be completed and returned to Management daily
- Be alert; give your full attention to the safe operation of the crane
- Know the characteristics of the crane. Learn to judge the amount of crane drift when controls have been returned to "OFF"
- Practice lifting loads in a safe area
- Do not rely on limit switches for safe operation
- Always have crane hooks directly over the load
- Never drag a load
- Never permit anyone to ride the hook or the load
- Never carry loads over other personnel
- Never leave loads or crane equipment where they will be a hazard to personnel working below the crane
- If the load block is lowered sufficiently to cause slack in the cable, assure through inspection that the cable is on the blocks and in the groove before raising the block again.
3.2 Equipment Safety

CAUTION - Attempting to lift any other cover blocks before the key cover block has been moved could seriously damage the overhead crane, the cover blocks, or the equipment in the cells beneath the cover blocks.

CAUTION - Placing the cover blocks anywhere but in the specifically designed racks, or allowing the cover blocks to overhang a wall could damage the cover block, and will create a hazard to any equipment beneath the overhanging section.

CAUTION - Attempting to perform an Emergency Retrieval on the overhead crane while the hoist is lowered into a cell could result in serious damage to the overhead crane, and/or to equipment in the cell.

CAUTION - If the retrieval system is not stopped when the retrieval bar has returned to the start position, the retrieval bar will be torn from the drive chain.

CAUTION - When operating the crane extra attention must be paid to the control cables so they don’t become tangled in the hooks or equipment causing damage to the equipment.

3.2.1 If the main hoist fails while working in a cell, do not attempt to operate the retrieval mechanism until the hoist can be raised to the crane.

3.2.2 As the crane cannot be observed from the location of the Retrieval Operating button, retrieval requires at least two Process Crane Operators:
- One observer at a crane operating console, and
- One person to operate the Retrieval Operating button located on the crane control panel on the south wall of the mezzanine walkway of the AMU room.

3.2.3 The requirement to have two Process Crane Operators for Overhead Crane Emergency Retrieval may be waived under the following conditions:
- If at the time the emergency retrieval is necessary, and the crane's condition is such that one person using CCTV monitors may perform retrieval safely.
3.3 Radiation and Contamination Control

3.3.1 Work in radiological areas will be performed using a Radiological Work Permit (RWP) following review by Radiological Control per ALARA work planning procedure TFC-ESHQ-RP_RWP-C-03.

3.3.2 Opening a cover block or riser penetration may expose personnel to high radiation dose rates.

3.3.3 A job specific radiological work permit and any applicable radiological controls will be addressed in an approved work package, as applicable to the activity being worked.

3.3.4 When work is performed in or when work will result in a high contamination, high radiation, or an airborne radioactivity area, an approved work package must be developed which is reviewed by Radiological Control per ALARA work planning procedure TFC-ESHQ-RP_RWP-C-03. Any changes in the work package or this procedure that affects radiological aspects of the work must be approved by the appropriate project Radiological Control Organization.

3.3.5 Removing the Pump Room cover blocks may require posting the Loadout and Hot Equipment Storage Room and Loading Room as an Airborne Radiation Area and High Radiation Area.

3.4 Limits

HNF-15279, Technical Safety Requirements for the 242-A Evaporator

SAC 5.8.2 Evaporator and Pump Room Access and Pump Room Cover Block Control (SAC).

4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies will be needed to perform this procedure:

- 242-A Crane Console Key
- 242-A Crane Log
- 242-A Overhead Crane Frequent Inspection Check Sheet (one for each day the Overhead Crane is in use).
4.2 Field Preparations

The following conditions must be met before this procedure may commence:

4.2.1 IF removing the Pump Room Cover Blocks, two responsible and knowledgeable workers (i.e., 242-A Shift Manager, Field Work Supervisor, or operator) VERIFY the following conditions: (SAC 5.8.2)

- The 242-A Evaporator is in the SHUTDOWN MODE AND
- The slurry lines SL-167 and SL-168 are not physically connected to an active waste transfer pump not under administrative lock AND
- Tank Farms waste transfer pump (feed pump) 241-AW-P-102-1 and 242-A Evaporator waste transfer pump (pump room sump steam jet pump) J-B-1 are under administrative lock.

Signature / Print (First and Last) / Date

4.2.2 IF working in the Pump Room, ENSURE the following conditions have been met:

- Pump PB-2 is OFF
- Pump PB-1 is OFF
- Evaporator C-A-1 Vessel is empty of waste.

NOTE - Inspections are only required to be current for the BTHLD that will be used.

4.2.3 IF lifting a load with a below the hook lifting device (BTHLD), VERIFY the required inspections have been completed AND

N/A items that will not be used.

<table>
<thead>
<tr>
<th>PMID</th>
<th>DESCRIPTION</th>
<th>FREQUENCY</th>
<th>LAST DONE</th>
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</thead>
<tbody>
<tr>
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<td>5-TON-YOKE ANNUAL INSPECTION</td>
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<tr>
<td>EE-108579</td>
<td>1/2-TON HOOK EXTENSION ANNUAL INSPECTION</td>
<td>365 DAYS</td>
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<tr>
<td>EE-002489</td>
<td>5-TON-HOOK-EXTENSION ANNUAL INSPECTION</td>
<td>365 DAYS</td>
<td></td>
</tr>
</tbody>
</table>

Signature / Print (First and Last) / Date

Shift Manager
4.2 Field Preparations (Cont.)

NOTE - Performance of Step 4.2.4 satisfies both the requirement for inspection of a crane that has been idle greater than one month but less than 6 months as well as the requirement for inspection of a crane that has been idle greater than six months.

4.2.4 IF lifting a load with the 5-Ton Bridge Crane or ½ Ton Chain Hoist, VERIFY the following monthly 5-Ton Bridge Crane/Wire Rope/Hook and ½ ton Chain Hoist Inspections have been satisfactorily completed.

<table>
<thead>
<tr>
<th>PMID</th>
<th>DESCRIPTION</th>
<th>FREQUENCY</th>
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<tbody>
<tr>
<td>EE-107334</td>
<td>242-A BRIDGE CRANE OIL CHANGE</td>
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<td>EE-002503</td>
<td>WT-CRN-2802 1/2 TON BRIDGE CHAIN HOIST INSP</td>
<td>Monthly</td>
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<tr>
<td>EE-002504</td>
<td>WT-CRN-2801 1/2 TON AUX CHAIN HOIST INSP</td>
<td>Monthly</td>
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<tr>
<td>EE-002505</td>
<td>WT-CRN-2803 5-TON BRIDGE CRANE WIRE ROPE INSP</td>
<td>Monthly</td>
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<tr>
<td>EE-002105</td>
<td>WT-CRN-2801 5-TON CRANE ELECTRICAL INSPECTION</td>
<td>365 days</td>
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</tbody>
</table>

______________________________/______________________________/______________________________
Signature                      Print (First and Last)                      Date
Shift Manager

4.2.5 IF C-A-1 contains waste, ENSURE that there are no personnel in the Load Out and Hot Equipment storage room prior to using the overhead crane.

______________________________/______________________________/______________________________
Signature                      Print (First and Last)                      Date
Shift Manager
4.2 Field Preparations (Cont.)

4.2.6 **CHECK** that an evaluation has been done of any concurrent work in the Loadout and Hot Equipment Storage Room and Loading Room and any required radiological or Industrial Hygiene posting changes (HRA, ARA, HCA, and/or Beryllium) have been made prior to removing pump room cover blocks.

____________________ / ______________________ / ___________
Signature Print (First and Last) Date

Shift Manager

4.2.7 **PERFORM** a frequent inspection check per Attachment 3 **AND**

**DOCUMENT** inspection on Attachment 3.
5.0 PROCEDURE

5.1 Operate Overhead Crane Normally

5.1.1 REVIEW Crane Log. (Located in the 242-A Control Room.)

5.1.2 OBTAIN completed Attachment 1 and Attachment 2 from the Shift Manager.

5.1.3 ENSURE proper PPE has been donned per section 3.1.

5.1.4 ENSURE Cubicle C3A in MCC-1 is energized.

5.1.5 ENSURE Main Disconnect Switch, (located on the Crane Control Cab. on the mezzanine of the AMU Room), is ON.

5.1.6 OBTAIN Crane Console Key from the 242-A Master Key Box.

5.1.7 BEFORE operating the Overhead Crane, VISUALLY INSPECT work area.

NOTE - When the Crane Console CONTROL POWER keyswitch is positioned to ON, the "PWR AVAILABLE" light on that particular Crane Console will come ON.

5.1.8 INSERT Crane Console Key into the CONTROL POWER keyswitch of Crane Console to be used AND

POSITION CONTROL POWER keyswitch to ON (see Figure 1).

5.1.8.1 CHECK that the "PWR AVAILABLE" light on the Crane Console comes ON.
5.1 Operate Overhead Crane Normally (Cont.)

**CAUTION**
When operating the crane extra attention must be paid to the control cables so they don’t become tangled in the hooks or equipment causing damage to the equipment.

NOTE - When the CRANE POWER switch is positioned to ON, the POWER ON light on that particular Crane Console will come ON.

5.1.9 **POSITION** CRANE POWER switch to ON.

5.1.9.1 **CHECK** POWER ON light on Crane Console comes ON.

5.1.10 **BEFORE** beginning assigned work, **PERFORM** the following:

5.1.10.1 **TEST** all crane controls to assure all Crane Controls operate properly.

5.1.10.2 **COMPLETE** Attachment 3.

**CAUTION**
Attempting to lift any other cover blocks before the key cover block has been moved could seriously damage the overhead crane, the cover blocks, or the equipment in the cells beneath the cover blocks.

**CAUTION**
Placing the cover blocks anywhere but in the specifically designed racks, or allowing the cover blocks to overhang a wall could damage the cover block, and will create a hazard to any equipment beneath the overhanging section.

5.1.11 **LIFT** key cover block **AND**

**PLACE** on the specially designed rack.

5.1.12 **LIFT** remaining cover blocks necessary to allow work to proceed **AND**

**PLACE** on the specially designed rack.
5.1 Operate Overhead Crane Normally (Cont.)

5.1.13 IF cover block is dropped during movement by the overhead crane, **PERFORM** the following actions:

5.1.13.1 **STOP** all overhead crane movement.

5.1.13.2 **POSITION** all Crane Control Console CONTROL POWER and CRANE POWER switches to OFF.

5.1.13.3 **REQUEST** Shift Manager notify Industrial Safety.

5.1.13.4 **REQUEST** HPT support.

5.1.13.5 **ENSURE** the overhead crane is not moved until after the Shift Manager has reviewed the situation.

5.1.14 **PERFORM** assigned work identified on Attachment 1 and Attachment 2, **OR**

**PERFORM** work as assigned by the Shift Manager.

5.1.15 **RETURN** cover blocks to original position as assigned by the Shift Manager.

5.1.16 **AFTER** completion of assigned work activities, **PERFORM** the following:

5.1.16.1 **IF** requested by Shift Manager, **REPLACE** cover blocks.

5.1.16.2 **PARK** overhead crane at the maintenance platform.

5.1.16.3 **PLACE** overhead crane's load blocks in a position to ensure safety of personnel and equipment beneath crane.

5.1.16.4 **POSITION** console CONTROL POWER keyswitch to OFF.

5.1.16.5 **REMOVE** crane console key.

5.1.16.6 **RETURN** Crane Console Key to the 242-A Lock and Key Cabinet.

5.1.16.7 **RECORD** Overhead Crane activities and Overhead Crane status in the Crane Log. (Located in the 242-A Control Room.)
5.1 Operate Overhead Crane Normally (Cont.)

5.1.17 IF directed by Shift Manager, **PERFORM** the following:

5.1.17.1 **ENSURE** proper PPE has been donned per Section 3.1.

5.1.17.2 **POSITION** Main Disconnect Switch, (located on the Crane Control Cab. on the mezzanine of the AMU Room), to OFF.

5.1.17.3 **DE-ENERGIZE** Cubicle C3A in MCC-1.

5.1.18 IF no further work activities are required, **GO TO** Section 5.4.
5.2 Perform Emergency Lowering of Main Hoist

NOTE - This Section will be performed only if the hoist motor or controls have failed while a load is still suspended from the overhead crane.

5.2.1 IF hoist motor or controls have failed while a load is suspended from the overhead crane, PERFORM Steps 5.2.2 through 5.2.6.

5.2.2 BEFORE using the Emergency Lowering Circuit, PERFORM the following actions:

5.2.2.1 CHECK the Main Disconnect Switch is ON. (Located on the main floor of the AMU Room.).

5.2.2.2 REQUEST an Electrician disconnect Hoist Motor loads BT-1, BT-2 and BT-3. (Located on the Crane Electrical Panel.)

5.2.2.3 POSITION the CRANE POWER switch to OFF.

5.2.2.4 POSITION the Crane Console CONTROL POWER keyswitch to OFF.

5.2.2.5 REMOVE the Crane Console key from the CONTROL POWER keyswitch.

5.2.2.6 INSERT the Crane Console key into the EMER LOWERING keyswitch (see Figure 1).

NOTE - The Time Delay (TDO) relay should open 1½ seconds after the EMER LOWERING keyswitch is turned.

5.2.3 TURN the EMER LOWERING keyswitch clockwise AND

RELEASE key to check that Time Delay (TDO) relay opens properly.

5.2.4 IF the Time Delay (TDO) relay does not open properly, REQUEST Shift Manager arrange for Electricians to troubleshoot the relay.

5.2.5 IF the Time Delay (TDO) relay opened properly, REPEATEDLY TURN AND RELEASE the EMER LOWERING keyswitch to lower the load and hoist to a safe position.

5.2.6 AFTER the load and hoist are in a safe position, REQUEST Shift Manager to notify maintenance of hoist malfunction.
5.3 Operate Emergency Crane Retrieval Mechanism

NOTE - This section will be performed only if the overhead crane motor or controls fail with the overhead crane positioned away from the maintenance platform.

- Performance of this section requires at least two Process Crane Operators:
  - One to act as observer at a Crane Operating Console,
  - One to operate the overhead crane emergency retrieval button.

- There is no provision on the 242-A overhead crane to raise the main hoist if it fails while the hoist is down.

CAUTION

Attempting to perform an Emergency Retrieval on the overhead crane while the hoist is lowered into a cell could result in serious damage to the overhead crane, and/or to equipment in the cell.

5.3.1 IF the overhead crane motor or controls fail with the overhead crane positioned away from the maintenance platform, PERFORM Steps 5.3.2 through 5.3.10.

5.3.2 ENSURE at least two Process Crane Operators are available to perform the following steps:
  - One to act as observer at a Crane Operating Console,
  - One to operate the overhead crane emergency retrieval button.

5.3.3 IF the main hoist fails while working in a cell, REQUEST Shift Manager to arrange for maintenance to troubleshoot and raise the hoist to allow for an emergency retrieval of the overhead crane.

5.3.4 ENSURE all Crane Console CONTROL POWER key switches are OFF.

5.3.5 AFTER the crane operator acting as observer signals that the overhead crane may be retrieved, PRESS AND HOLD the Overhead Crane Emergency Retrieval Button. (Located at the Crane Control Panel on the South wall of the Mezzanine in the AMU Room.)

5.3.6 IF the overhead crane must be stopped during the Emergency Retrieval, POSITION the CONTROL POWER keyswitch, at Crane Console, to ON.
5.3 Operate Emergency Crane Retrieval Mechanism (Cont.)

CAUTION
If the retrieval system is not stopped when the retrieval bar has returned to the start position, the retrieval bar will be torn from the drive chain.

5.3.7 ESTABLISH positive communication between the Crane Operator acting as observer and the Crane Operator stationed at the crane retrieval system RESET switch.

5.3.8 AFTER the Crane Operator, acting as observer, signals the retrieval system may be reset, PRESS AND HOLD the RESET button until the observer signals the retrieval bar has returned to the START position AND RELEASE the RESET button.

5.3.9 AFTER the overhead crane has been fully retrieved, ENSURE all crane console CONTROL POWER and CRANE POWER switches are OFF.

5.3.10 NOTIFY the Shift Manager the 242-A Overhead Crane has been retrieved, and maintenance may begin troubleshooting.
5.4 Records

5.4.1 **PERFORM** the following for records identified within this procedure.

5.4.1.1 **RECORD** the number of times the record was generated in applicable column

OR

**PLACE** a check mark (✓) in the N/A column.

5.4.1.2 **SUBMIT** the package for verification of completed records.

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<thead>
<tr>
<th>Records Submittal Checklist</th>
<th>Number of times completed</th>
<th>N/A (✓)</th>
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### 4.2 Field Preparations

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<tbody>
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<td></td>
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<tr>
<td>Step 4.2.4</td>
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<tr>
<td>Step 4.2.5</td>
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<tr>
<td>Step 4.2.6</td>
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</table>

**Attachments**

- Attachment 1 - 242-A Jumper Removal Instruction Sheet
- Attachment 2 - 242-A Jumper Installation Instruction Sheet
- Attachment 3 - 242-A Overhead Crane Frequent Inspection Check Sheet

**FWS/OE/Shift Manager** **SEND** the completed records to the Central Shift Office for records retention

_________________________ / __________________________ / __________________________
Signature Print (First & Last) Date

FWS/OE/Shift Manager

The record custodian identified in the Company-Level Record Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
Attachment 1 - 242-A Jumper Removal Instruction Sheet

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<tr>
<th>Shift Manager Signature/Print (First and Last) for Work Start</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Field Work Supervisor Signature/Print (First and Last) for Work Start</td>
<td>Date</td>
</tr>
<tr>
<td>Reference Work Authorization #’s:</td>
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All Conditions Below Must Be Met

<table>
<thead>
<tr>
<th>Pump PB-1 Shut Down</th>
<th>Pump PB-2 Shut Down</th>
<th>Evaporator Shut Down &amp; Dumped</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<table>
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<tr>
<th>242-A Evaporator is in the Shutdown Mode.</th>
<th>Slurry lines SL-167 and SL-168 are not physically connected to an active waste transfer pump that is not under administrative lock.</th>
<th>Tank farms waste transfer pump (feed pump) 241-AW-P-102-1 and 242-A Evaporator waste transfer pump (pump room sump steam jet pump) J-B-1 are under administrative lock.</th>
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</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
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</table>

Jumpers to Be Removed *

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Additional Instructions/Leak Test:

Shift Manager Signature/Print (First and Last) on Work Completion Date

* To facilitate safer working conditions, jumpers may be removed in any order.
Attachment 2 - 242-A Jumper Installation Instruction Sheet

<table>
<thead>
<tr>
<th>All Conditions Below Must Be Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump PB-1 Shut Down</td>
</tr>
<tr>
<td>Pump PB-2 Shut Down</td>
</tr>
<tr>
<td>Evaporator Shut Down &amp; Dumped</td>
</tr>
<tr>
<td>242-A Evaporator is in the Shutdown Mode.</td>
</tr>
</tbody>
</table>

- Slurry lines SL-167 and SL-168 are not physically connected to an active waste transfer pump that is not under administrative lock.
- Tank farms waste transfer pump (feed pump) 241-AW-P-102-1 and 242-A Evaporator waste transfer pump (pump room sump steam jet pump) J-B-1 are under administrative lock.

Jumpers to Be Installed *

<table>
<thead>
<tr>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-2-</td>
</tr>
<tr>
<td>H-2-</td>
</tr>
<tr>
<td>H-2-</td>
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<td>H-2-</td>
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<td>H-2-</td>
</tr>
<tr>
<td>H-2-</td>
</tr>
</tbody>
</table>

Additional Instructions/Leak Test:

To facilitate safer working conditions, jumpers may be installed in any order.
## Operate 242-A Overhead Crane

### Attachment 3 - 242-A Overhead Crane Frequent Inspection Check Sheet

<table>
<thead>
<tr>
<th>Crane Operator Signature/Print (First and Last)</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Check Sheet must be completed every day that the Overhead Crane is in use</td>
<td>✓Yes</td>
</tr>
<tr>
<td>General Overhead Crane Motion Satisfactory?</td>
<td></td>
</tr>
<tr>
<td>Brakes Operate Smoothly?</td>
<td></td>
</tr>
<tr>
<td>Hoisting Ropes in good condition?</td>
<td></td>
</tr>
<tr>
<td>Upper Limit Switch OK?</td>
<td></td>
</tr>
</tbody>
</table>

If any of the "✓ No" blocks above are checked, specify the problem in this space:
Figure 1: Crane Control Panel

(*= CRANE CONSOLE STATION NUMBER)
Figure 2: Crane Control Panel Locations

242-A Evaporator AMU Room

Station 1

Station 2

Station 5

Viewing Window

Viewing Window

Viewing Window

TK-E-102

TK-E-104

TK-E-101

Station 3

NOTE - No Crane Control Station #4