Date Performed: _____ **Next Due Date:**_____

Personnel responsible:

1. Process Engineer

Safety:

Safety shoes and safety glasses are required when working in the plant.

Procedure:

1. Brine Transfer Flow-
   Check the flow with the hand held external flow meter. The minimum acceptable flow is 60 gpm.
   Measured flow:_____
   If the flow is below 60 gpm, the line needs to be pressure washed and remeasured.
   Comments:_____

2. Crystallizer Mother Liquor Flow
   The Mother Liquor flow meter for the Crystallizers is checked with the external flow meter. The flow meters should agree within 5%. If not, clean the Mother Liquor meter and check the readings again.

   #1 Handheld flow: _____gpm #1 Meter flow:_____gpm % Difference_____
   #2 Handheld flow: _____gpm #2 Meter flow:_____gpm % Difference_____
   #3 Handheld flow: _____gpm #3 Meter flow:_____gpm % Difference_____

   Comments:_____

3. Crystallizer Brine Flow
   The Brine feed flow meter for the Crystallizers is checked with the external flow meter. The flow meters should agree within 5%. If not, clean the flow meter and check the readings again.

   #1 Handheld flow: _____gpm #1 Meter flow:_____gpm % Difference_____
   #2 Handheld flow: _____gpm #2 Meter flow:_____gpm % Difference_____
   #3 Handheld flow: _____gpm #3 Meter flow:_____gpm % Difference_____

   Comments:_____

4. Crystallizer Discharge Flow
   The discharge flow meter for the Crystallizers is checked with the external flow meter. The flow meters should agree within 5%. If not, clean the discharge flow meter and check the readings again.

   #1 Handheld flow: _____gpm #1 Meter flow:_____gpm % Difference_____
   #2 Handheld flow: _____gpm #2 Meter flow:_____gpm % Difference_____
   #3 Handheld flow: _____gpm #3 Meter flow:_____gpm % Difference_____

   Comments:_____

5. Crystallizer Vacuum
   The vacuum for the Crystallizers is checked with an external gauge. The gauge should agree within 0.1" Hg. If not, wash the Crystallizer instrument with hot water and record the readings again.
   #1 Gauge Vacuum: _____ "Hg #1 Monitor Vacuum:_____ "Hg Difference_____
   #2 Gauge Vacuum: _____ "Hg #2 Monitor Vacuum:_____ "Hg Difference_____
   #3 Gauge Vacuum: _____ "Hg #3 Monitor Vacuum:_____ "Hg Difference_____

   Comments:_____

6. Crystallizer Temperature
   The temperature for the Crystallizers is checked with a thermometer. Take a sample from the density loop and measure the temperature with a thermometer. The thermometer and Monitoring System readout should agree within 1C. If not the Monitoring System reading will need to be adjusted.
   #1 Thermometer: _____ C #1 Monitor Temp:_____ C Difference_____
   #2 Thermometer: _____ C #2 Monitor Temp:_____ C Difference_____
   #3 Thermometer: _____ C #3 Monitor Temp:_____ C Difference_____

   Comments:_____

TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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Revision Number	Revision Date	Revision Author	Revision Description
00	11/2/2010	PLO	Original document