

GILES CHEMICAL		
COMPANY PROCEDURE		
Standard Operating Procedure	Page : 1 of 3	Revision : 05/19/2008 Date : 11/10/2005
Author: Patrick Owen	Title: (00)Fine Salt Loop	

**Personnel responsible:**

1. Lead Operator, Material Handler

**Safety:**

Safety shoes and safety glasses are required when working in, on, or around the crystallizers.

**Summary:**

The fine salt loop is a key to producing the proper size crystals. Simply, the fines are removed from the system, melted down, and pumped back into the system.

**A. Start Up**

1. Close the fine salt loop return valve and open the drain valve
2. Open the fine salt loop washout to start water flowing.
3. Start the fine salt loop pump.
4. "Switch" the salt loop discharge and washout valves, so fines flow through the system instead of water.
5. After flow through drain valve is ensured, close the drain valve and open the return valve.
6. Open the steam valve for the heat exchanger.
7. Open the condensate drain valve, if so equipped.
8. Check the temperature gauge. It should read 34 -36 deg C.

**B. Operation**

1. Operational checks to be made every 2hrs minimum
2. Insure that there is still flow through the system, and that the temperature gauge reads 34 – 36 C

**C. Shutdown**

1. Shut the steam off of the fine salt loop heat exchanger.
2. Close the condensate drain valve, if so equipped.
3. Close the fine salt loop discharge valve.
4. Open the washout on the fine salt loop.
5. Open the drain valve temporarily to ensure water is flowing through the loop.
6. Close the fine salt return valve.
7. Close the washout valve.
8. Stop the fine salt loop pump.
9. Open the drain valve.

<b>GILES CHEMICAL</b>			
<b>COMPANY PROCEDURE</b>			
<b>Standard Operating Procedure</b>		Page : 2 of 3	Revision : 05/19/2008 Date : 11/10/2005
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**TRAINING DOCUMENTATION**

	EMPLOYEE	TITLE	SIGNATURE	DATE
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<b>GILES CHEMICAL</b>		
<b>COMPANY PROCEDURE</b>		
<b>Standard Operating Procedure</b>	Page : 3 of 3	Revision : 05/19/2008 Date : 11/10/2005
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### **REVISION HISTORY**

<u>Revision Date</u>	<u>Revision Number</u>	<u>Revision Description</u>
11/10/05	00	New Document
12/15/06	01	Update from Operator training
05/19/08	02	No Changes for Procedure – Changed Header and Removed Document number