

GILES CHEMICAL CORPORATION		
COMPANY PROCEDURE		
Standard Operating Condition	Page : 1 of 3	Revision : Date : 11/30/2005
Author: Patrick Owen	Title: (00) Mother Liquor Management	

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Personnel responsible:

1. All

Safety equipment:

Safety glasses and safety shoes.

Summary:

In some ways Mother Liquor may seem like a useless byproduct of the Crystallization process, but it is crucial to production in the Digesters. Mother Liquor has to be either produced in or recycled to the Digesters. Also, cooling at high production rates is nearly impossible without Mother Liquor. The following are some guidelines for managing Mother Liquor in the Giles process.

Guidelines:

Liquid Loads:

1. Never load Liquid product from the Mother Liquor Tank unless no other source is available.
2. Mother Liquor that has overflowed to the #1 and #2 Storage Tanks should be used in a Liquid Load or pumped back to the Mother Liquor Tank as soon as possible.

Digesters:

1. Start with about half as much Mother Liquor on the Digesters as the total feed to the Crystallizers. (For instance the Crystallizers have 30 gallons of Brine and 5 gallons of Mother Liquor, then start with about 17.5 gallons of Mother Liquor in the Digesters)
2. Adjust the Mother Liquor feed to the Digesters up or down to keep the Mother Liquor Tank level constant.

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REVISION HISTORY

<u>Revision Date</u>	<u>Revision Number</u>	<u>Revision Description</u>
11/30/02	00	New Document
03/31/08	01	changed description from peco tanks to storage tanks

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TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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