

GILES CHEMICAL CORPORATION		
COMPANY PROCEDURE		
Standard Operating Procedure	Page : 1 of 2	Revision : Date : 1/30/2008
Author: Patrick Owen	Title: (00) Operating the Giles ACS Filter Press	

**Personnel responsible:**

1. Lead Operator, Material Handler, Assistant Operator

**Safety equipment:**

Safety glasses and safety shoes.

**Summary:**

The ACS press operates very similar to the larger Komline-Sanderson press, using a lot of the same equipment. Two big differences are: 1) the ACS press has air operated manual hydraulics that must be closed and opened by the operator and 2) the ACS press has an air operated plate shifter to make it easier to wash

Both presses can be ran at the same time, but they cannot be started or shut down at exactly the same time. The computer makes the second press wait for the first to get started before it allows the other one to start.

**Procedure:**

1) ARRANGE INLET AND DISCHARGE PIPES

- a) Using a clean hose with a good gasket, attach the "Filter Press Inlet" to the "Mud to Press" line.
- b) Also using a clean hose with a good gasket, attach the "Filter Press Discharge" to the "Brine to Brine Tank #2" line.
- c) Open the associated manual valves on these four lines.

2) FILTERING WITH ACS PRESS

- a) Press "Close Filter" on the panel view display.
- b) Ensure the block for the HPU is red on the screen, otherwise press "Start HPU".
- c) At the back of the press, push the position valve handle on the Enerpac toward the Load Press.
- d) Slide the red anodized control ring toward the Enerpac pump to close the press.
- e) Watch the pressure gauge and pump the pressure to 3000 – 3500 psi.
- f) Slide the red anodized control ring away from the pump to stop the pressure buildup.
- g) Leave the position valve with the handle pointing toward the load press.
- h) Go to the control panel and Push the "Start" Button.
- i) The press will begin the heat up cycle by using hot water from the wash tank.
- j) If the water is too hot for the press to start, drain some of the water from the tank and add some cool water with a hose, and agitate it with the mud paddle. Then press "Start"
- k) Allow the press cycle to continue (usually several hours) until the message to open the press is displayed on the panel.
- l) Record the press run information on the Press Log

3) OPEN THE PRESS

- a) Press "Open Filter".
- b) At the back of the press on the Enerpac, turn the position valve to the middle position to let off the pressure.
- c) After pressure is relieved, turn the position handle toward you.
- d) Push the red anodized toward the pump to open the press.

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- e) Stay with the press as it opens – when the air motor slows down, pull the red anodized ring away from the pump to stop it.
- f) When the press is fully open, press “Start the Conveyor”
- g) Separate the press plates with the air shifter by setting the pusher between the plates and manipulating the shifter handle.
- h) Proceed to separate the press plates, thus dropping the press cakes to the conveyor.
- i) Stop the conveyor by pressing “Stop Conveyor”

#### 4) WASH THE PLATES

- a) At the back of the press, push the position valve handle on the Enerpac toward the Load Press.
- b) Slide the red anodized control ring toward the Enerpac pump to close the press.
- c) When the press closes, switch the position valve back toward you to re-open the press.
- d) When the press is open again, slide the red anodized control ring away from the pump to stop the any buildup.
- e) Separate the plates with the air shifter and wash each cloth. Keep water off of the pusher by retracting the cylinder before washing each plate.
- f) Do not close the press. Leave it open until the next cycle.

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**TRAINING DOCUMENTATION**

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