

GILES CHEMICAL		
COMPANY PROCEDURE		
Standard Operating Procedure	Page : 1 of 4	Revision : 03/23/09 Date : 05/23/06
Author: Patrick Owen	Title: (00) Electrical Outage Recovery	

Personnel responsible:

Lead Operator, Material Handler, Assistant Operator

Safety:

Safety glasses and safety shoes required. Be very careful, it is easy to injure yourself when running around and trying to recover from a power outage. Plan ahead and take your time.

Summary:

After a power outage, many processes in the plant must be restarted before normal operations can resume. This checklist is not all-inclusive, but can be upgraded as we find other things to put on it.

Check Off List:

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| <input type="checkbox"/> Elbow pumps for Crystallizers (Priority #1) | <input type="checkbox"/> Condenser Pumps |
| <input type="checkbox"/> Circulation Pumps for Digesters | <input type="checkbox"/> Vacuum Pumps |
| <input type="checkbox"/> MgO Feed for Digesters | <input type="checkbox"/> Mass Flow Pumps |
| <input type="checkbox"/> Agitators on Salt Side, Liquid Side | <input type="checkbox"/> Fine Salt Pumps |
| <input type="checkbox"/> Mud Tank Agitators | <input type="checkbox"/> Brine Feed Pumps |
| <input type="checkbox"/> Filter Press (clear alarm and continue from hold) | <input type="checkbox"/> Mother Liquor Pump |
| <input type="checkbox"/> Boilers | <input type="checkbox"/> Mother Liquor Feed Pumps to Crystallizers |
| <input type="checkbox"/> Air Compressor | <input type="checkbox"/> Brine Transfer Pump |
| <input type="checkbox"/> Creek Pumps | <input type="checkbox"/> Mud Pump |
| <input type="checkbox"/> Dust Collectors | <input type="checkbox"/> Liquid Load Pump (if in use) |
| <input type="checkbox"/> Dryer Fans | <input type="checkbox"/> Vibrators for Mix Pots |
| <input type="checkbox"/> Dryers | <input type="checkbox"/> Liquor Pot Pump |
| <input type="checkbox"/> Screw Under Centrifuge | <input type="checkbox"/> Palletizer |
| <input type="checkbox"/> Centrifuge | <input type="checkbox"/> Conveyor |
| <input type="checkbox"/> Dryer Screws (Top and Bottom) | <input type="checkbox"/> Bagger |
| <input type="checkbox"/> OmniLift | <input type="checkbox"/> Super Sack Machine |
| <input type="checkbox"/> Screener (if in use) | <input type="checkbox"/> MgO Blower (if in use) |
| <input type="checkbox"/> Bucket Elevators (if in Use) | <input type="checkbox"/> Acid unloading pump and Compressor (if in use) |
| <input type="checkbox"/> Water Recovery System | <input type="checkbox"/> Log onto Monitoring System Screen (mon1, mon1- see procedure) |

Notes:

- 1) These are somewhat in order of importance.
- 2) If the power blips again while you are starting up – throw this checklist away and print a new one.

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TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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REVISION HISTORY

<u>Revision Date</u>	<u>Revision Number</u>	<u>Revision Description</u>
5/23/06	00	New Document
5/30/08	01	Added Check Dryer Fans Removed Document Number Changed Header
3/23/09	02	Added Acid unloading Pump Added Water Recovery