

ENERGY CONTROL PROCEDURE

The following Energy Control Procedure should be used for the equipment listed below.

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Reviewing Personnel: FRANK REPROGLE _____ Date Reviewed: _____

Approvals: FRANK REPROGLE _____ Date Approved: _____

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: SAMSCD BMC #3082 Water Evaporator

MANUFACTURER: SAMSCD

MODEL: 600 HWA SERIAL NUMBER: 01363

LOCATION: Production South West Corner

CONTROLS

The following Controls, including “start/stop” buttons, toggle switches, emergency stop button, shut-off valves, etc. have been identified for this equipment.

Description of Control	Location on Equipment
Power Button	Left Control Panel
Burner Button	Left Control Panel
Fill Swtich	Left Control Panel
Electrical disconnect	On Wall lower right closest to door
Pump 480 volt plug	Right side of boiler
Shut off valve on pump	Right side of boiler

ENERGY SOURCES/ISOLATION DEVICES

The following Energy Sources and Energy Isolation Devices supporting this equipment have been identified.

Energy Types: (CHECK ALL THOSE APPLICABLE)

Electrical	X
Pneumatic	
Hydraulic	
Steam	X
Chemical	
Thermal	X
“Stored” Energy	
Natural Gas	X

Sources / Devices	Location	Type of Lock/Tag Needed
Power Button	Left Control Panel	NA
Bunner Button	Left Control Panel	NA
Fill Switch	Left Control Panel	NA
Electrical Disconnect	On Wall Lower Right Closest to Door	Standard Lock and Tag
Pump 480 Volt Plug	Right Side of Boiler	Standard Lock, Tag, plug Lock Out Cover
Shut Off Valve For Pump	Right Side of Boiler	Standard Lock, Tag, Lock Out Cover

Natural gas

SHUTDOWN PROCEDURES

The steps listed below must be followed to properly shut down and de-energize this equipment.
To verify the effectiveness of each step follow the instructions in the "Verification" column.

Lock-Out/Tag-Out

Procedure	Device used	How to verify
Notify "affected" and "other" employees of impending equipment shutdown.		
Push Burner Button	NA	Light Goes Out, Burner Shuts Off
Push Burner Button	NA	Light Goes Out, Machine Shuts Down
Turn Fill Switch to Off	NA	Verify in Off
Turn Mail Electrical Disconnect Off	Standard Lock and Tag	Try to Start
Unplug 480 Volt Plug on Pump	Standard Lock and Tag, plug Lock Out Cover	Unplugged
Shut Off Valve on Pump	Standard Lock and Tag, Lockout Cover	Perpendicular to Piping

RELEASE AND RESTART PROCEDURES

The steps listed below must be followed to properly release this equipment from a locked or tagged out condition and restart it.

<u>Procedure</u>	<u>Location</u>
Inspect work area and remove tools and other non-essential items.	
Inspect equipment and components to make sure it is intact and ready to run.	
Notify "affected" and "other" employees in the area of impending restart and make sure they are safely positioned away from the equipment	
Open Pump Shut Off Valve	Right Side of Boiler
Plug in 480 Volts for Pump	Right Side of Boiler
Turn Main Electrical Disconnect On	On Wall Lower Right Closest to Door
Turn Fill Switch to Avoid	Left Control Panel
Push Burner Button	Left Control Panel
Push Power Button	Left Control Panel