

ENERGY CONTROL PROCEDURE

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

Date Written: 10-8-97 Date of Revisions: _____ - _____
 Authors: Ed Graef
 Reviewing Personnel: _____ Date Reviewed: _____
 Approvals: _____ Date Approved: _____

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: BMC#1002 - Moore Jig Grinder
 MANUFACTURER: Moore Special Tool Co.
 MODEL: G-1122 SERIAL NUMBER: _____
 LOCATION: Tool Room near office door

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
Machine On/Off Switch	Front Right side
Machine Disconnect	Left side near rear
Main Disconnect	Wall behind Machine
Air Supply	Back middle of Machine
Unplug power to vacuum	Wall behind machine

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	X
Hydraulic	
Steam	
Chemical	
Thermal	
“Stored” Energy	
Other	X (vacuum)

Sources / Devices	Location	Type of Lock/Tag Needed
Main Disconnect	Wall behind machine	Std. pad lock and tag
Machine disconnect	Left side of machine on panel	Std. pad lock and tag
Air supply	Rear of machine	Quick disconnect std. pad lock & tag ct cover
Vacuum	Behind machine	Plug cover and pad lock and tag

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		
Main on / off switch	None	Try to start spindle
Machine disconnect	Std. padlock and tag	Try main on / off switch
Main disconnect	Std. padlock and tag	Check voltage at machine disconnect
Air supply	None	Check pressure gage
Vacuum	Plug cover and std. padlock and tag	Try vacuuming

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	
Unlock and plug in vacuum	Behind machine
Unlock and reconnect air line	Back of machine
Unlock main disconnect	On wall behind machine
Unlock machine disconnect	Left side of machine
Push power on button	Right front apparatus panel