

ENERGY CONTROL PROCEDURE

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

Date Written: 4-8-14 Date of Revisions: _____ - _____
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 Approvals: _____ Date Approved: _____

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: Vertical Machine
 MANUFACTURER: Makino #1061
 MODEL: V77 SERIAL NUMBER: 65
 LOCATION: Tool Room North Wall

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
Operator Panel	Front of Machine
Main Breaker	Rear of Machine
Air Supply	Rear of machine inside door right side
Main Disconnect	On Opposite side of wall in N.C. Department

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	X
Steam	
Chemical	
Thermal	
“Stored” Energy	
Other	

Sources / Devices	Location	Type of Lock/Tag Needed
Main disconnect	Opposite side of wall in N.C. Department	Standard Lock and tag
Main Breaker	Rear of machine side of electrical cabinet	Standard lock and tag

Air supply	Rear of machine inside door	Quick connect cover standard 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		
Push power off button	N/A	Try any function
Switch Off main breaker	Standard lock and tag	Try power on button
Switch off main disconnect	Standard lock and tag	Check for voltage
Disconnect main air supply	Quick connect cover standard lock and tag	Check pressure gauge

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.

Procedure	Location
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 main disconnect	Opposite side of wall in N.C. Department marked
Unlock and reconnect air supply	Rear of machine inside small door
Unlock and switch on main breaker	Rear of machine on side of electrical cabinet
Push power on	Operator panel
Test machine	