

ENERGY CONTROL PROCEDURE

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

Date Written: 4-2-14 Date of Revisions: -
 Authors: Ed Graef
 Reviewing Personnel: Date Reviewed:
 Approvals: Date Approved:

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: Horizontal Machining Center
 MANUFACTURER: Makino BMC # 2009
 MODEL: A55 SERIAL NUMBER: LM319
 LOCATION: NC Department

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
Main disconnect	Breaker panel by locker room
Main breaker	Right side of machine electrical cabinet door
Air supply	Left side under oil chiller
Power on/off button	Operator’s panel

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	Breaker panel by locker room	Std. lock and tag
Main breaker	Right side of machine electrical panel door	Std. lock and tag
Air supply	Left side of machine under oil	Quick connect cover std. lock and tag

	chiller	
Power on-off	Operator panel	n/a

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	Std. lock and tag	Push power on button
Disconnect air line	Quick connect cap std. lock & tag	Check pressure gauge
Switch off main disconnect	Std. lock and tag	Check for voltage

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 and switch on main disconnect	Breaker panel by locker room
Unlock and reconnect main air line	Left side under oil chiller
Unlock and switch on machine breaker	Right side electrical cabinet door
Push power on button	Operator’s panel right side
Check operations	