

ENERGY CONTROL PROCEDURE

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

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EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: Horizontal Machining Center
 MANUFACTURER: NIIGATA BMC #2031
 MODEL: HN80C SERIAL NUMBER: 46250138
 LOCATION: N.C. North East 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
Main Disconnect	North Wall Left of Machine
Main Breaker	Back of Machine Electrical Cabinet
Power on button	Operator’s panel
Control Ready Button	Operator’s panel
Air	Back of machine on wall

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	North wall along side of machine	Standard lock and tag
Main breaker	Back of machine one electrical cabinet	Standard lock and tag
Power off button	Operators panel	N/A

Air	On wall behind machine	Quick connect cap 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 button	N/A	Try any function
Switch off main breaker	Standard breaker corner lock and tag	Push power on button
Switch off main disconnect	Standard lock and tag	Check for voltage
Disconnect main air	Quick connect cap 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 and switch main disconnect	North wall along side of machine
Unlock and switch on main breaker	Back of machine on electrical panel
Unlock and reconnect main air line	On wall behind machine
Push power on button wait for CRT to come on Push control Ready	Operator’s panel
Check machine	