

ENERGY CONTROL PROCEDURE

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

Date Written: 1-10-98 Date of Revisions: _ - _____
 Authors: Ed Graef
 Reviewing Personnel: _____ Date Reviewed: _____
 Approvals: _____ Date Approved: _____

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: BMC#1028 – NC Lathe
 MANUFACTURER: OKUMA
 MODEL: LB15 11M SERIAL NUMBER: 2111
 LOCATION: Tool Room back corner to highway 70

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
Control off/on button	Control Pendent
Machine Breaker	End Machine Left side
Main Breaker	Breaker panel on wall to highway 70

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
Disconnect	Directly behind machine	Std. lock and tag
Machine switch	on the left side of the machine	Std. lock and tag

Air Quick disconnect	Left hand side of machine	Quick disconnect device – std. lock
Hydraulic Tank	Tail stock rear of machine	Check the gauge at 0 PSI

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		
Front of machine operator Pendent push the control off button	NA	Control Screen will be blank
Machine disconnect on the left side of the machine	Std. lock out and tag	Go back to the control pendant and press the on button
Main disconnect on the wall rear of machine	Std lock and tag	With a meter
Quick disconnect on left end of machine	Quick disconnect with Std lock and tag	Look at the gauge
Tail stock rear of machine	NA	Look at the gauge for 0 PSI

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 reconnect Pneumatic line	Wall behind machine
Main disconnect Remove the lock and turn back on	Wall
Machine disconnect – unlock and switch on	Left end of the machine
Operator control pendent and push power on	Front of machine
Push power on button	Control panel key panel