

<b>Appendix 1: Control of Hazardous Energy - Lockout Procedure</b>				
<b>College of Engineering &amp; Mines</b>				
<b>Machine and Carpentry Shops</b>				
<b>Duckering 109-110</b>				
<b>April 25, 2011 Update</b>				
Files: CEM Machine & Carpentry Shop LOTO Appendix 1				
<b>Energy Control Method: L = Use Lockout Device; FS = Contact Facilities Services Electrical Shop to have electrical service isolated by an Authorized Employee; CP = Cord and Plug under the exclusive control of employee performing service or maintenance*</b>				
*Work on cord and plug connected electrical equipment for which exposure to the hazards of unexpected energization or start up of the equipment is controlled by unplugging the equipment from the energy source and by the plug being in the exclusive control of the employee performing the service or maintenance; reference 29 CFR1910.147(a)(2)(iii)(A).				
<b>Description</b>	<b>Energy Control Method</b>	<b>Location of Operating Controls and Energy Isolation</b>	<b>Energy Type - Voltage</b>	<b>Equipment Location</b>
Anodizing Operations				109
Baldor Belt Sander	CP	Unplug from electrical outlet prior to servicing		109
Baldor Grinder	CP	Unplug from electrical outlet prior to servicing		109
Baldor Grinder	CP	Unplug from electrical outlet prior to servicing		109
Baldor Pedestal Buffing Machine	CP	Unplug from electrical outlet prior to servicing		109
Band Saw	CP	Unplug from electrical outlet prior to servicing		110 Carpentry
Belt sander	CP	Unplug from electrical outlet prior to servicing		110 Carpentry
Challenger HR 618 Surface Grinder	CP	Unplug from electrical outlet prior to servicing		109
Clausing Drill Press	CP	Unplug from electrical outlet prior to servicing		109
Clausing Drill Press	CP	Unplug from electrical outlet prior to servicing		110 Carpentry
Clausing-Colchester 11" Metal Lathe		Unplug from electrical outlet prior to servicing		109
Cold Saw	CP	Unplug from electrical outlet prior to servicing		109
Coolant Mixer-Reservoir-Skimmer-Pump	CP	Unplug from electrical outlet prior to servicing		109
Darex XT 3000 Tool Sharpener	CP	Unplug from electrical outlet prior to servicing		109
Delta 20 Vertical Band Saw - Variable Speed	CP	Unplug from electrical outlet prior to servicing		109

<b>Description</b>	<b>Energy Control Method</b>	<b>Location for Energy Isolation</b>	<b>Energy Type - Voltage</b>	<b>Equipment Location</b>
Di-Acro Box and Pan Brake				110 Carpentry
Do-All Band Saw	CP	Unplug from electrical outlet prior to servicing		109
Electric Furnace - Ceramics Kiln				109 Welding
Engine Hoist				110 Carpentry
Enterprise Horizontal/Universal Milling Machine				109
Foundry Furnace				109 Welding
Foundry Sand Muller; "Swif-Mul"				109 Welding
Haas SL20 Turning Center				109
Haas TL2 Lathe				109
Haas Vertical Machining Center				109
Hydraulic Press				109
Lucifer Furnace				109 Welding
Miller Spectrum 500 DC Plasma Cutting System				109 Welding
Miller Synchronwave 250DX				109 Welding
Millermatic 350P Welder				109 Welding
Monarch Metal Lathe				109
Monarch Metal Lathe 13"				109
Oxy-Acetylene Welding				109 Welding
Painting Operations				109 Welding
Pexto No 13 Shear				110 Carpentry
Pickling Operations				110 Carpentry
Portable angle grinder	CP	Unplug from electrical outlet prior to servicing		109 Welding
Portable hand tools (general)	CP	Unplug from electrical outlet prior to servicing		109-110
Portable Parts Washer	CP	Unplug from electrical outlet prior to servicing		110 Carpentry
Romi Tormax 13-5 Lathe				109
Sand Blasting Operations				109 Welding
SawStop Table Saw	CP	Unplug from electrical outlet prior to servicing		110 Carpentry
Sharp Vertical Milling Machine				109
Spot Welder				109 Welding
Strippit Di-Acro Metal Shear				110 Carpentry

<b>Description</b>	<b>Energy Control Method</b>	<b>Location for Energy Isolation</b>	<b>Energy Type - Voltage</b>	<b>Equipment Location</b>
Triok Model 0850-2400				109
Vacuum Cleaner Use	CP	Unplug from electrical outlet prior to servicing		109-110
Whitney - Jensen Punch Model 33				110 Carpentry