

Niagara Specialty Metals, Inc.

Emergency/Lockout-Tagout Procedures

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Emergency/Normal/Lockout-Tagout Procedures for **OMAX JET MACHINING CENTER**

Primary contact: TOM MACKIN

Primary contact phone 1: (716)704-6385

Primary contact phone 2: (716)772-5074

Backup contact: BOB SHABALA

Backup contact phone 1: (716)542-5552

Backup contact phone 2: (716)472-6672

Emergency Procedure:

EMPLOYEES SHALL NOTIFY PRIMARY OR BACKUP CONTACT IN THE CASE OF AN EMERGENCY.

Standard Procedure:

AFFECTED EMPLOYEES SHALL TURN MACHINE OFF, ATTACH A "DO NOT OPERATE" SIGN, AND NOTIFY MAINTENANCE IF THERE IS A SAFETY, QUALITY OR POSSIBILITY OF MACHINE DAMAGE PROBLEM.

Lockout/Tagout Procedure:

LOCKOUT TAGOUT SHALL ONLY BE PERFORMED BY AUTHORIZED EMPLOYEES

1. NOTIFY AFFECTED EMPLOYEES/ SUPERVISOR
2. SHUT DOWN EQUIPMENT
3. ISOLATE ALL ENERGY TO EQUIPMENT
4. LOCK AND TAG ENERGY CONTROLS AND KEEP KEYS IN YOUR POSSESSION
5. FILL OUT TAG WITH YOUR NAME/DATE
6. RELEASE ANY STORED OR RESIDUAL ENERGY
7. TEST CONTROLS TO ENSURE INADVERTENT START UP IS NOT POSSIBLE

RESTORING FROM LOCKOUT/TAGOUT

1. NOTIFY AFFECTED EMPLOYEES THAT LOCKS AND TAGS WILL BE REMOVED
2. CHECK EQUIPMENT TO ENSURE ALL GUARDS ARE IN PLACE AND TOOLS ARE REMOVED
3. ENSURE CONTROLS ARE IN THE NEUTRAL OR OFF POSITION
4. REMOVE ANY DO NOT OPERATE SIGNS

TYPE OF ENERGY

- A. ELECTRICAL**
- B. POTENTIAL (STORED)
- C. KINETIC (IN MOTION)
- D. PNEUMATIC (AIR OR GAS)
- E. HYDRAULIC
- F. THERMAL
- G. CHEMICAL
- H. SPECIAL HAZARDS

ISOLATION LOCATION/PROCEDURE/TYPE OF DEVICE

- A.** SINCE THERE ARE MULTIPLE DISCONNECTS TO REMOVE POWER, THERE ARE TWO BREAKERS THAT WILL REMOVE THE POWER LOCATED IN POWER PANEL #1 (PP1) IN THIRD BAY ON SOUTH WALL:

20 AMP SQUARE D I-LINE BREAKER FOR 120V CONTROLS.

100 AMP SQUARE D I-LINE BREAKER FOR O-MAX PUMP AND CHILLER.

THE OVERHEAD CRANE (JET-HOIST) POWER CAN BE REMOVED WITH THE 30 AMP ALLEN-BRADLEY MANUAL STARTER ON EAST WALL BEHIND MACHINE.

- B. NA.
- C. NA.
- D. NA.
- E. NA.
- F. NA.
- G. NA.
- H. NA.