

Niagara Specialty Metals, Inc.

Emergency/Lockout-Tagout Procedures

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Emergency/Normal/Lockout-Tagout Procedures for Haas Mill #3 LA

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Backup contact: BOB SHABALA

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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. 100 AMP SQUARE D DISCONNECT ON WEST WALL BEHIND MACHINE REMOVES POWER TO #3 HAAS GRINDER.

30 AMP SQUARE D DISCONNECT ON WEST WALL BEHIND MACHINE REMOVES POWER TO #3 HAAS MAGNETIC CHUCKS.

30 AMP SQUARE D DISCONNECT ON CENTER BEAM IN FRONT OF MACHINE REMOVES POWER TO MAGNETIC CONVEYOR AND CHIP CRUSHER.

30 AMP SQUARE D DISCONNECT/STARTER REMOVES POWER TO #3 HAAS DUST COLLECTOR LOCATED ON WEST WALL BEHIND MACHINE.

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

H. THE HEAD IS NITROGEN ASSIST AND MAY DRIFT IF NITROGEN IS LOW, SO MUST BE BLOCKED.