

# Niagara Specialty Metals, Inc.

## Emergency/Lockout-Tagout Procedures

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### Emergency/Normal/Lockout-Tagout Procedures for #2 Electric Annealing Furnace NA

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Backup contact: BOB SHABALA

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#### 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. 80 AMP SQUARE D I-LINE BREAKER REMOVES POWER TO TOP FURNACE ELEMENTS.

200 AMP SQUARE D I-LINE BREAKER REMOVES POWER TO BOTTOM FURNACE ELEMENTS.

BOTH BREAKERS ARE LOCATED IN POWER PANEL #2 ON SOUTH WALL OF NEW ADDITION.

30 AMP GE DISCONNECT LOCATED ON SOUTH WALL TO THE RIGHT OF FURNACE REMOVES POWER TO FURNACE HOISTS.

B. FURNACE LID MUST BE AT LOWEST POSITION OR PINNED AT SPECIFIC HEIGHT WITH PROVIDED PINS PRIOR TO REMOVING POWER TO HOISTS.

C. NA.

D. NA.

E. NA.

F. NA.

G. NA.

H. NA.