Niagara Specialty Metals, Inc.
Emergency/Lockout-Tagout Procedures
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Emergency/Normal/Lockout-Tagout Procedures for #4 Electric Annealing Furnace SH

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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 EQUIPTMENT
3. ISOLATE ALL ENERGY TO EQUIPTMENT
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 EQUIPTMENT TO ENSURE ALL GUARDS ARE IN PLACE AND TOOLS ARE REMOVED
3.ENSURE CONTROLS ARE IN THE NEUTRAL OR OFF POSSITION
4.REMOVE ANY DO NOT OPERATE SIGNS

TYPE OF ENERGY
A. ELECTRICAL
B. POTENTIAL (STORED)
C. KINETIC (IN MOTION)
D. PNUEMATIC (AIR OR GAS)
E. HYDRAULIC
F. THERMAL
G. CHEMICAL
H. SPECIAL HAZZARDS

ISOLATION LOCATION/PROCEDURE/TYPE OF DEVICE

A. 200 AMP SQUARE D I-LINE BREAKER IN POWER PANEL #1 LOCATED ON SOUTH WALL REMOVES POWER TO FURNACE ELEMENTS/CONTROLS.

30 AMP ALLEN-BRADLEY MANUAL STARTER REMOVES POWER TO FURNACE HOISTS.

B. FURNACE LID MUST BE AT LOWEST POSITION OR PINNED AT SPECIFIC HEIGHT ON FOUR POSTS WITH THE PROVIDED PINS.

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