

ENERGY CONTROL

WHILE WORKING WITH A SYSTEM IT IS ESSENTIAL THAT ANY FORM OF ENERGY THAT IS PART OF THE SYSTEM IS CONTROLLED AND MANAGED APPROPRIATELY



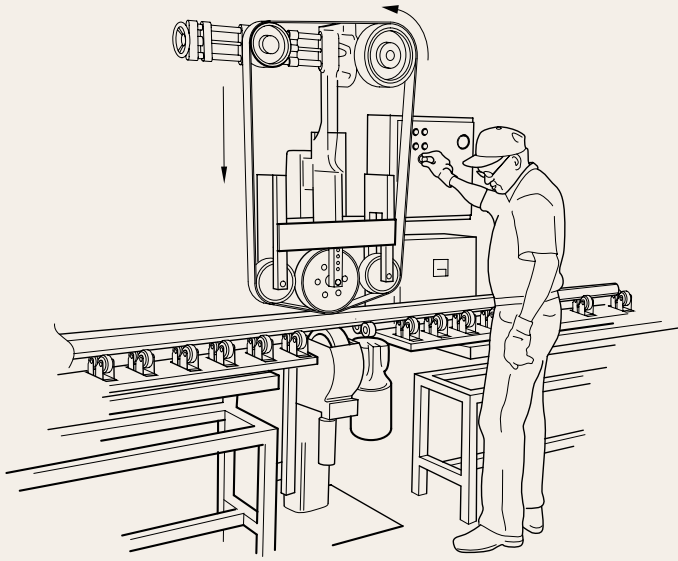
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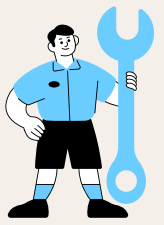
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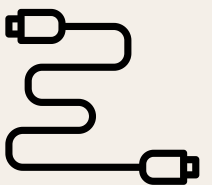
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SYSTEM EVALUATION



- Do a thorough evaluation of the system that is going to be worked upon. Define the system boundaries and identify energy streams going into and out of the system boundary.
- Identify energy isolation points of the energy streams going into and out of the system.

1

NOTIFY

- Identify all stakeholders and personnel who will be impacted by the shutdown of the system/equipment.
- Notify them and obtain all necessary approvals.



2

ISOLATION LOCK-OUT & TAG-OUT

- De-energize the system and make sure all controls are at neutral/zero position.
- Isolate the identified energy isolation points identified in **Step 1**. Apply restraining locks on the device such that it cannot be operated by unauthorized personnel. In addition to this place warning tags on the device.
- In case the device cannot be restrained using a lock or tag use alternative methods to safely secure the energy isolation device. A thorough risk assessment is required to be done if alternate methods are used.



3

VERIFY

- Verify system energy isolation by either operating the machine controls or using verification/testing equipment.



4

RELEASE STORED ENERGY

- Ensure that all stored energy is released or secured.
- Ensure that adequate barricades are installed and warning signages posted.



STORED ENERGY CAN BE NON-PERCEPTIBLE AND EQUALLY DANGEROUS.

5

WORK COMPLETION - RE-ENERGIZING THE SYSTEM

- Ensure that all the internal/external system connections are operationally intact and there are no compromised sections.
- Ensure that all system controls are in the neutral/off position.
- Ensure that the area is cleared of all personnel and work equipment.



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