

# ZES PROGRAM Tagger Installing Personal Protection

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# ZES PROGRAM Tagger Installing Personal Protection

Ontario Operations – Safety, Central Services      SAF-ZES-60002      Version: 6      Effective Date: 2019-07-25

## 1.0 PURPOSE

This procedure describes the mandatory process required for a worker installing personal protection.

## 2.0 APPLICATION

The ZES (Zero Energy State) Program is applicable at all Vale Ontario operations.

<b>Parameters for Electrical Locking &amp; Tagging</b>	
Up to 600 volts	<ul style="list-style-type: none"> <li>• Employees must be trained and qualified to ZES003</li> </ul>
Greater than 600 volts and up to 15kV	<ul style="list-style-type: none"> <li>• Employees must be trained and qualified to ZES003</li> <li>• <b>Power Department</b> will follow <b>MPROC-55001 High Tension Lines, High Tension Switching Procedure</b> between 600 volts and up to 15kV</li> <li>• <b>All other departments</b> will follow <b>MPROC-50001 Electrical Department Switch Room and Substation Access Procedure</b> <ul style="list-style-type: none"> <li>○ Employees must be trained and qualified electrical tradespersons or have been trained, qualified and permitted through MPROC-50001</li> <li>○ Requires communication with the plant's Electrical Department to establish the level of involvement required from them</li> </ul> </li> </ul>
Greater than 15 kV	<ul style="list-style-type: none"> <li>• Requires Power Department</li> </ul>

### 2.1. EXCEPTIONS

- High tension power lines and related equipment are under the direct control of the Power Department i.e. all 230kV, 69kV, and 44kV lines and equipment. All personnel must follow Power Department procedure MPROC-55001 High Tension Lines, High Tension Switching Procedure
- Overhead lines and related equipment below 15kV must follow plant specific policies and procedures
- Equipment greater than 15kV not owned by the Power Department e.g. Cottrell, must follow plant specific policies and procedures

## 3.0 REFERENCES

The following references were used in the development of this document or are related to it. Reference should always be made to the most current official version of these regulations.

- Occupational Health and Safety Act
  - Ontario Regulation 854, Sections 160, 185
  - Ontario Regulation 632/05, Confined Spaces Section 14
- CSA-Z460 Control of Hazardous Energy

## 4.0 DEFINITIONS

**Authorized:** a person who has been given permission to perform the task

**Cascaded Lock Bock:** a lock box that contains the keys from an identified red project lock that has been affixed to the exterior of another lock box or lock boxes

**De-energized:** disconnected from all energy sources and not containing residual or stored energy.

**Do Not Operate Tag:** a yellow reusable tag that indicates authorization from the System Operator must be obtain before removing tag or operating of the device (used by Electrical Tradespeople)

**Delayed Starts:** used to delay the operation of a process or start of a motor, pump, fan, etc. The time can be varied depending on the requirements and typically uses time delay relays to accomplish it.

**Designated Tagger:** a qualified worker or another person who installs and removes project personal protection and manages status tags

**Device:** a piece of equipment or a mechanism designed to serve a special purpose or perform a special function

**Energy Source:** any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal, gravity, pressurized, flow of material or other stored energy.

**Energy Isolating Device:** a mechanical device that physically prevents the transmission or release of energy, such as a disconnect of switches, valves, spades, or blocks

**Equipment:** any machine driven by electricity or any other prime mover, and/or combination of machines that operates as a system / process, such as pumps, fans, electric motors, mobile machines, vessels, piping, valves, etc.

**Frequency Drive:** a type of motor controller used with AC motors to vary the frequency and voltage supplied to the motor (In doing so, it can vary the motor speed to match the load requirements of the motor such as controlling the speed of a conveyor belt, fan, mine hoist, etc.)

**Grounding Device:** an approved device to mechanically connect electrical conductors to ground

**Ground Tag:** a green tag identifying that a grounding device has been installed on the circuit

**Hold Off Tag:** Affixed to fused disconnects or breaker control handles by a linesman or P&C technician (tag issued by the Systems Operator) to prevent individuals from reclosing a tripped device

**Interlocks:** Used in electrical circuits, it is usually a device (common switch, infrared beams, photo detectors, etc.) used to prevent undesirable actions in a piece of equipment, machine or process.

**Isolate:** a process use or action taken to introduce any number of approved physical barriers between the equipment and sources or forms of energy and/or process material.

**Isolation Equipment Operator:** a qualified person who operates the Energy Isolation Device (i.e. controls, valves, etc.)

**Isolation Equipment Operator:** a qualified person who operates the energy isolation device.

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**Lock Box:** a lockable device with provision to secure/see and count keys and hold forms that can be used in two applications: 1) By a Designated Tagger to secure keys and hold the lock box form 2) By a Local Tagger to secure the remote tagging form and hold the lock box form

**Lock Extender:** a red device used to allow multiple personal protection locks to be installed on an energy isolating device

**Lockout Device:** a mechanical means of locking an energy isolation device, using a Personal Protection Lock.

**Local Tagger:** a qualified person who uses a Remote Tagger to install the Local Tagger's personal protection locks and tags on energy isolating devices

**Personal Protection Lock:** an approved single keyed red lock capable of locking an energy isolating device or a lock box

**Personal Protection Tag:** an approved red tag that is used in conjunction with a personal protection lock to lock and tag an energy isolating device

**Project Lock:** an approved single keyed blue lock that is used by a Designated Tagger to secure keys in a lock box

**Protected Worker:** a Tagger who has installed personal protection and has verified a Zero Energy State

**Qualified:** a competent person designated by his/her employer as being qualified because of knowledge, training and experience to safely perform an assigned task.

**Remote Tagger:** a qualified person who operates, locks and tags energy isolation devices on behalf of a Local Tagger

**Running Repairs:** a repair to a piece of mobile equipment that is in an energized state (Two types of running repairs: 1. Running repairs with power ON + key ON / engine not running and the electric/hydraulic motor is not energized – personal protection tag required in operators control area 2. Running repairs with key ON / engine running or electric / hydraulic motor energized – personal protection tag and a qualified operator required in operator's control area)

**Soft Starts:** Used with AC motors to reduce the load and torque on the powertrain and current surge during start up. Allow the motor to slowly (softly) ramp up to full speed.

**Status Tag:** an approved white tag identifying why an energy isolating device may not be operated so as to protect equipment

**Station Guarantee Tag:** a white, reusable numbered tag used by Power Department to identify the fact that a certain device is being used to protect a person or group of persons while working on or near equipment

**Superintendent:** the level of management that supervisors who are in charge of equipment and/or processes report to.

**Tagger:** a qualified worker who installs and removes his/her personal protection and manages status tags.

**Variance:** an approved plant specific measure put in place when it is impractical or unsafe to follow the Zero Energy State Locking and Tagging Procedure

**Zero Energy State:** a state where all hazardous energy has been isolated and de-energized, or otherwise controlled to manage risk.

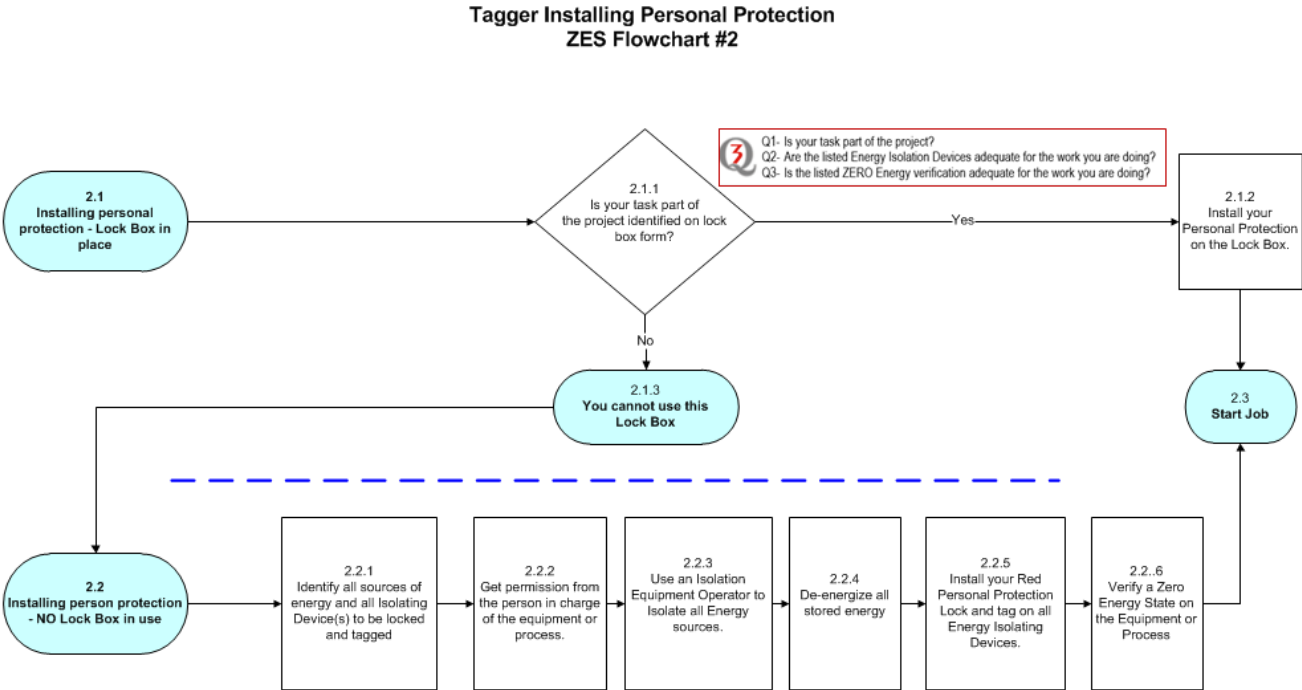
# ZES PROGRAM Tagger Installing Personal Protection

## 5.0 TAGGER INSTALLING PERSONAL PROTECTION

The following flowchart outlines the mandatory steps required for a Tagger installing personal protection.

The two scenarios outlined in this flowchart are as follows:

- 1) Installing personal protection when lock box is in place for the equipment to be worked on
- 2) Installing personal protection when a lock box is not in use



For further details on this process refer to details in SAF-ZES-60002

The next sections describe in detail the requirements related to each step in the above two process flows.

## 6.0 ZES PROCEDURE – FLOWCHART #2

### FC: 2.1. INSTALLING PERSONAL PROTECTION – LOCK BOX IN PLACE

The purpose of the steps in this process flow is to outline the mandatory steps required for a Tagger installing personal protection on a lock box (**non-cascaded**).

When using a lock box, the Designated Tagger has already locked the energy isolation devices in the isolated position and verified the zero-energy state for the project identified on the Lock Box Form. A worker becomes a protected worker for the project simply by installing their red personal protection lock onto the lock box.

There is a danger if assumptions are made about the protection offered by a particular lock box. The required hazardous energy controls vary for different tasks being performed on the same machine.

**EXAMPLE:** An electrician doing a separate monthly inspection in an area where project work is being done is not included in the project in this scenario. The electrician will have to lock and tag independently because they will not be included on the lock box form. Following lock and tag rules in this example will ensure good communication between both **GROUPS**.

Each worker requiring protection (protected worker), with a lock box, must use this flow chart once.

To use this path of the flow chart, you must be:

- Qualified on the zero energy state locking and tagging procedure.

To use this flow chart, a Designated Tagger must have already made a lock box available for use. The lock box will have:

- The key for each locked energy isolation device. The keys will be in the lock box. They will be clearly visible within the lock box.
- A blue project lock. The blue project lock prevents access to the keys within the lock box.
- A filled-in lock box form. The form will list the energy isolation devices and the method of zero energy verification. It will also name the project and the Designated Tagger. (see EXAMPLE next page)



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## SAMPLE: FILLED-IN LOCK BOX FORM

ONTARIO OPERATIONS ZERO ENERGY STATE LOCKING AND TAGGING PROGRAM

### Lock Box Form - 8

Date: <i>Jun 5, 2018</i>	Plant Specific Procedure Number: <i>If none, identify risk assessment method i.e. SLAM, JHA</i>	AC-1	
Project Description: (Work to be Done) <i>Replace #1 Air Compressor</i>			
Q1- Is your task part of the project? Q2- Are the listed Energy Isolating Devices adequate for the work you are doing? Q3- Is the listed ZERO Energy verification adequate for the work you are doing?		Designated Tag Application <input checked="" type="checkbox"/> Remote Tag Application <input type="checkbox"/>	
<b>Work To Be Done:</b> I have knowledge of and understand the work to be done. I have identified the equipment and/or processes that will be part of the work to be done. Print Name: <i>Pat D'Tagger</i> Signature: <i>Pat D'Tagger</i>			
<b>Equipment/Process Energy Isolations:</b> I have knowledge of and understand the equipment and/or processes that require lock and tagging to ensure zero energy state for the work to be done. The required isolation points are identified on this form. Print Name: <i>Pat D'Tagger</i> Signature: <i>Pat D'Tagger</i>			
No. of Energy Isolating Devices:	<b>3</b>	<b>IMPORTANT:</b> Once above signatures are affixed, the lock box is authorized for the number of energy isolating devices identified to the left and described in the following pages. <b>NO MODIFICATIONS ARE TO BE MADE.</b> If additional equipment or process isolations are required, or if changes need to be made, you must start a new Lock Box process or follow MPROC-60012 – Using Cascading Lock Boxes (as is applicable) <small>The above section MUST be completed prior to isolations being applied.</small>	
<b>Designated Tagger:</b> Isolation Completed: <input checked="" type="checkbox"/> Zero Energy Verified: <input checked="" type="checkbox"/>		<b>Project Lock Installed:</b> Date: <i>Jun 5, 2018</i> Time: <i>3 p.m.</i>	
Print Name: <i>Pat D'Tagger</i>		Signature: <i>Pat D'Tagger</i>	
<b>Subsequent Designated Tagger:</b> To print name and date AFTER verifying the integrity of the lock box and form and gaining control of the key for the lock box project.			
Name:	Date:	Name:	Date:
<i>Jim Goss</i>	<i>Jun 6, 2018</i>		
<i>Mary Smith</i>	<i>Jun 7, 2018</i>		

ONTARIO OPERATIONS ZERO ENERGY STATE LOCKING AND TAGGING PROGRAM

### Lock Box Form - 8

Designated Taggers will fill in this form as described in Flowchart #1 of the Ontario Operations Zero Energy State Locking and Tagging Procedure MPROC-60001. Subsequent Designated Taggers will add their name and date each time they become the Designated Tagger.

Ref	Type of Device	Device Identification	Equipment Name	Location of Energy Isolating Device
1	<i>Electrical switch</i>	<i>ES-1</i>	<i>#1 Air Compressor</i>	<i>At the compressor</i>
Designated Tagger to record method used to verify Zero Energy State: <i>Attempt to start using the local START button.</i>				
2	<i>Air Valve</i>	<i>Air outlet valve</i>	<i>#1 Air Compressor</i>	<i>At the compressor outlet</i>
Designated Tagger to record method used to verify Zero Energy State: <i>Open the air bleed valve at the discharge pipe. No pressure to be present. Gauge PG-1 must read zero PSI.</i>				
3	<i>Water valve</i>	<i>Water cooling valve</i>	<i>#1 Air Compressor</i>	<i>At the compressor cooler</i>
Designated Tagger to record method used to verify Zero Energy State: <i>Open the water drain valve on the compressor cooler. No water pressure to be present.</i>				
4				
Designated Tagger to record method used to verify Zero Energy State:				
5				
Designated Tagger to record method used to verify Zero Energy State:				
6				
Designated Tagger to record method used to verify Zero Energy State:				
7				
Designated Tagger to record method used to verify Zero Energy State:				
8				
Designated Tagger to record method used to verify Zero Energy State:				

Designated Tagger will fill in this form as described in SAF-ZES-60001 – Designated Tagger Installing Protection with a Lockbox. Subsequent Designated Tagger will add their name and date each time they become the Designated Tagger.

An additional page may be attached to the first page if room for more Designated Tagger records is required.

**FC: 2.1.1. IS YOUR TASK PART OF THE PROJECT IDENTIFIED ON THE LOCK BOX FORM?**

The purpose of this step is to determine if you are part of the project identified on the lock box form.

There is a danger if assumptions are made about the protection offered by a particular lock box. The required hazardous energy controls vary for different tasks being performed on the same machine.

EXAMPLE: Workers replacing an air compressor must control more energy sources than a worker who is just changing belts on the air compressor's prime mover. A worker must ensure that his or her tasks are part of the project identified on the lock box form before using it. The lock box form names the project job that it can be used for. The lock box form lists the energy isolation devices that it is securing. The lock box form may also refer to a hazardous energy control procedure. The lock box form identifies the Designated Tagger.

Each Tagger must answer the following three questions in order to determine if his or her task is part of the project recorded on the lock box form:

1. Is your task part of the project?
2. Are the listed Energy Isolation Devices adequate for the work you are doing?
3. Is the list ZERO Energy verification adequate for the work you are doing?

If you cannot answer "Yes" to all three questions, **you cannot use this lock box.**

The worker can proceed in either of two ways:

1. Obtain an adequate lock box. (Reference: SAF-ZES-60001- Designated Tagger Installing Protection with a Lock Box Procedure) or,
2. Install personal protection without a lock box. (See FC: 2.2 Section below)

As soon as the worker determines that the lock box is inadequate one of the above two processes must be followed.



**FC: 2.1.2 INSTALL YOUR PERSONAL PROTECTION ON THE LOCK BOX**

The purpose of this step is to describe how to install your personal protection lock onto the lock box.

A worker cannot begin a task that requires hazardous energy control until the required protection is installed. In all instances this will be an approved red padlock that has a single key that has the workers identification attached.

Each worker working on a project using a lock box must perform this step affixing his/her personal protection lock to the lock box in a manner that will prevent the lock box from opening.

The Tagger keeps custody of the key:

- One approved red personal lock with key
- Identification for the red personal protection lock
- One lock box

A red personal protection tag will be affixed to the lock. (It is recommended that the string be removed from the tag and affix tag to the shackle of the lock through the hole, to prevent tag entanglement.)

Each red personal protection tag will contain the following information:

- Project Tag: No check mark in box
- Time and Date: The time and date that the lock and tag are installed
- Equipment: The name of the equipment that is being worked on
- Reason: Project description
- Company / Vale Dept.: Enter the Vale department name or the contracted company name.
- Installed by: The printed name of the Designated Tagger
- EMPLOYEE # or NORCAT / I.D. #: Enter ID number
- Work Phone: Enter phone number or Supervisor's number

**FC: 2.1.3 YOU CANNOT USE THIS LOCK BOX**

The purpose of this step is to provide direction to the Tagger where the lock box is inadequate.

A worker cannot begin a task that requires hazardous energy control until the required protection is installed. The worker must know what to do when he/she has determined that the lock box will not provide the required protection.

The worker can proceed in either of two ways:

1. Obtain an adequate lock box. (Reference: SAF-ZES-60001- Designated Tagger Installing Protection with a Lock Box Procedure) or,
2. Install personal protection without a lock box. (See FC: 2.2 Section below)

As soon as the worker determines that the lock box is inadequate one of the above two processes must be followed.

**FC: 2.2      INSTALLING PERSONAL PROTECTION – NO LOCK BOX IN PLACE**

The purpose of this process is to outline the steps required when installing personal protection without a lock box.

When no lock box is in use, the Tagger requiring protection (protected worker) must:

- Communicate with the person in charge of the equipment.
- Arrange for authorized isolation equipment operators to isolate the equipment.
- Affix a lock and tag to each isolated energy isolation device.
- Arrange for authorized isolation equipment operators to de-energize to zero energy state.
- Verify the zero energy state.

The Tagger must affix a red lock and tag onto each energy isolation device before the Tagger begins the specific job.

To follow this process, the Tagger must be:

- Qualified on the zero-energy state locking and tagging procedure.
- Familiar with the isolation / de-energization required for the specific job.

**FC: 2.2.1      IDENTIFY ALL SOURCES OF ENERGY AND ALL ISOLATING DEVICES TO BE LOCKED AND TAGGED**

The purpose of this step is to identify all personal protection Locking and Tagging requirements for a particular job.

This step is performed every time that a specific job is started. It is imperative that all hazardous energy be isolated and de-energized for the protection of workers. The Tagger must know all of the energy sources and how they affect the work to be done.

Every energy source must be identified. The Isolation Device for each energy source must be identified.

The Tagger is accountable for performing this task. The Tagger will use any relevant references to perform this task:

- Equipment-specific hazardous energy control procedures
- Task Lists (Standard Job Procedures)
- Blueprints and Process Drawings

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### **FC: 2.2.2      GET PERMISSION FROM THE PERSON IN CHARGE OF THE EQUIPMENT OR PROCESS**

The purpose of this step is to obtain permission from the person in charge before commencing the work.

The person in charge of the equipment or process must be aware of all work to be performed. They must coordinate this work with production schedules and maintenance schedules.

Some of the things that the person in charge is concerned about:

- The equipment may not be ready. This could result in injury or production upset.
- The work may be started on the wrong equipment. This could result in injury or production upset.
- The work may affect the safety of other work in the area.
- Other work in the area may affect the safety of this work.
- Accounting for people during an emergency situation.

The Tagger is responsible for performing this step. The communication should clarify

- The scope of the work.
- The expected duration of the work.
- Any hazards that may exist in the work place.
- Any hazards that the work introduces to the work place. (An example would be hot work.)
- Any burning permits, confined space permits or other work permits required.

The person in charge of the equipment must explicitly grant permission before removing the equipment from service.

### **FC: 2.2.3      USE AUTHORIZED ISOLATION EQUIPMENT OPERATOR TO ISOLATE ALL ENERGY SOURCES**

The purpose of this step is to bring the equipment to a zero-energy state.

Energy Isolation Devices must be in the isolated position before they are locked and tagged. You could be injured if you improperly operate an Energy Isolating Device.

Only a Isolation Equipment Operator can operate an Energy Isolating Device. In some instances, the Tagger may be the Isolation Equipment Operator.

Isolation is performed once for each energy source.

The Tagger is accountable for identifying the energy source.

The Isolation Equipment Operator is accountable for using proper methods for isolation and de-energization. More than one person may be involved in the isolation step and the time involved will vary depending on the type of isolation that is required. i.e., Using the air compressor example, an electrician may operate the field disconnect on your behalf in less than five minutes while the utility operator may require 30 minutes to valve off, bleed and drain the air compressor.

Isolation must be performed before personal protection is installed.

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### FC: 2.2.4      DE-ENERGIZE ALL STORED ENERGY

The purpose of this step is to de-energize the equipment. All equipment/processes that have been identified for the work to be done must have all energy sources brought to ZERO Energy State.

Some processes require knowledge of how to purge, wash or drain accumulators that may affect the taggers personal protection. Errors or unforeseen complications may allow portions of the machine to remain energized.

- One possible scenario would be an air valve on the compressor discharge pipe having a slow leak that could re-pressurize the compressor. The method of zero-energy verification should take into account the common failure modes of the energy isolation devices.
- Another scenario would be unintentionally the locking and tagging an energy isolating device in the energized position instead of the de-energized position

De-energization is performed in every instance that hazardous stored energy could exist.

The Isolation Equipment Operator is responsible for de-energizing hazardous energy. This step must be performed before the locks and tags are installed on the energy isolation device(s).

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### FC: 2.2.5      INSTALL RED PERSONAL PROTECTION LOCKS & TAGS ON ALL ENERGY ISOLATING DEVICES

The purpose of this step is to effectively lock and tag the energy isolation devices in the isolated position.

The Tagger performs this step after the Energy Isolating Devices have been moved to the isolated position.

- The locks will be red personal protection locks.
- One lock and one tag per energy isolation device.
- The tags will be red personal protection tags. They will be affixed to each lock.
- Each red personal protection tag will contain the following information:
  - Project Tag: No check mark in box
  - Time and Date: The time and date that the lock and tag are installed
  - Equipment: The name of the equipment that is being worked on
  - Reason: Project description
  - Company / Vale Dept.: Enter the Vale department name or the contracted company name.
  - Installed by: The printed name of the Designated Tagger
  - EMPLOYEE # or NORCAT / I.D. #: Enter ID number
  - Work Phone: Enter phone number or Supervisor's number

SAMPLE:



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### FC: 2.2.6      VERIFY ZERO ENERGY STATE

The purpose of this step is to prove that the energy isolation is effective.

You must verify a zero energy state after the equipment has been isolated and de-energized. Errors or unforeseen complications may allow portions of the machine to remain energized.

Consider the following scenarios:

- One possible scenario would be an air valve on the compressor discharge pipe having a slow leak that could re-pressurize the compressor. The method of zero-energy verification should take into account the common failure modes of the energy isolation devices.
- Another scenario would be unintentionally the locking and tagging an energy isolating device in the energized position instead of the de-energized position.
- A third scenario would be locking and tagging the wrong machine.

Verification is performed in every instance that hazardous stored energy could exist after isolation has taken place. More than one method may be required if there is more than one energy source.

This step is performed after the locks and tags have been installed on the energy isolation device(s).

The Isolation Equipment operation is responsible for de-energizing all hazardous energy; however, the Tagger will verify zero energy.

## **7.0 APPENDICES**

APPENDIX A: Revision Notes

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## Appendix A: Revision Notes

Revision notes describe what was changed, and if applicable, why it was changed, and the plan to implement the change, including whether changes are retroactive. The revision notes are a summary of the changes and may not necessarily be a complete list. A risk code is entered each revision and if applicable, the revision notes will describe how risk was addressed for the revision

Risk Code:	Risk Category
A	The revision is a minor change and/or introduces no risk.
B	Risk has been addressed for this revision by the reviewer and approver. Low risk or no new hazards identified.
C	For this revision, a risk management tool has been used to address risk and minimize hazards. This risk assessment has been document and is available through Maintenance Engineering.

Rev	Revision Notes
6	July 25, 2019 ownership of ZES Program transitioned to Ontario Operations Safety, Central Services. Risk Code A – minor change and introduces no risk. Changes include: Header of program documentation and reference number changes for example: MPROC-60000 now SPI-ZES-60000. Location of documents and forms on Websites remain the same. FORMS have no change other than “reference numbers” to the documents where applicable.
5	Lock Box Form graphics have been updated to reflect the changes to the Lock Box Form being rolled out in Ontario Operations during 2018. Risk Code for this revision is <b>A</b> - minor changes and introduces no risk.
4	Revision of <b>Section 2 - Application</b> to clarify locking and tagging requirements for different voltages and involvement levels required of Electrical Department and Power Department. Risk Code for this revision is <b>A</b> – The revision introduces no risk.
3	November 2, 2015 Ontario Operations Zero Energy State Locking & Tagging Program, Section 6 Procedures, 6.2 Flowchart 2 and its related CPQQRT <ol style="list-style-type: none"> <li>1. Formatted content into a maintenance standard “procedure” document: <i>MPROC-60002 Tagger Installing Personal Protection</i>. The reason for reformatting:               <ul style="list-style-type: none"> <li>• To update the format to meet the minimum requirements of documents maintained in the recently established Maintenance Standard Document Management System</li> <li>• To maintain the procedure on the Maintenance Standards Website for easy access for internal and external reference.</li> </ul> </li> <li>2. Separated 2.25 De-energize all stored energy Verify zero energy state as follows: Added step “2.24 De-energize all stored energy”, prior to 2.2.5” Install your Red Personal Protection Lock and tag on all Energy Isolating Devices”, which then make “2.2.6 Verify a Zero Energy State on the Equipment or Process”.</li> </ol>
2	March 31, 2009 Ontario Operations Zero Energy State Locking & Tagging Program Ontario Division changed its organizational structure. ZES Program document updated: “Section 7 – Accountabilities” to reflect the new organization structure
1	June 15, 2008 Implemented the Ontario Operations Zero Energy State Locking and Tagging Program