

ID#:	Screw Pumps #1,#2,#3	Facility:	AWWTP	Location:	Area 2
Created:	7/30/2018	Description:	Screw Pumps		
Revised:	7/30/2018				

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Lockout Points



Note:

Purpose:	This procedure establishes the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment.
Scope:	This procedure shall be used to ensure that the machine or equipment is stopped, isolated from all potentially hazardous energy sources and locked out before employees perform any servicing or maintenance where the unexpected energization or start-up of the machine or equipment or release of stored energy could cause injury.
Authorization:	This procedure shall only be used by employees that have been trained as "Authorized" employees. Employees with the following job roles are authorized to use this procedure: <list job roles>
Enforcement:	Failure to properly follow lockout-tagout procedure may result in corrective action.

Lockout Application Process

1. Notify affected personnel. 2. Properly shut down machine. 3. Isolate all energy sources. 4. Apply lockout devices, locks, & tags. 5. Verify total de-energization of all sources.

Lockout Steps

Step #	Action	Info	Verification
1 Electrical  E-1 Primary Feed	Turn off breaker and lockout with lock and hasp.	Screw Pump#1 	Attempt to start at control panel





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Lockout Steps

Step #	Action	Info	Verification
<p>2 Electrical</p> <p> E-2 Primary Feed</p>	Turn off breaker and lockout with lock and hasp.	<p>Screw Pump#2</p> 	Attempt to start at control panel.
<p>3 Electrical</p> <p> E-3 Primary Feed</p>	Turn off breaker and lockout with lock and hasp.	<p>Screw Pump#3</p> 	Attempt to start at control panel.

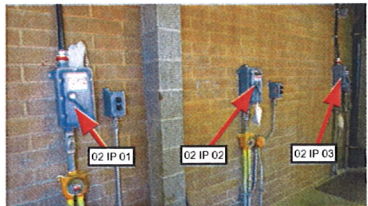

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Lockout Steps

Step #	Action	Info	Verification
4 Electrical E-1 Secondary Feed	Turn off breaker and lockout with lock and hasp.	Screw Pumps 1,2,3 breakers 	Attempt to start at control panel.
5 Electrical E-4 Secondary Feed	Lockout breaker	Screw Pump#3 	Attempt to start pump at control panel



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Step #	Action	Info	Verification
6 Electrical ⚡ E-5 Secondary Feed	Lockout breaker	Screw Pump#2 	Attempt to start pump at control panel.
7 Electrical ⚡ E-6 Secondary Feed	Lockout breaker	Screw Pump#3 	Attempt to start at control panel.


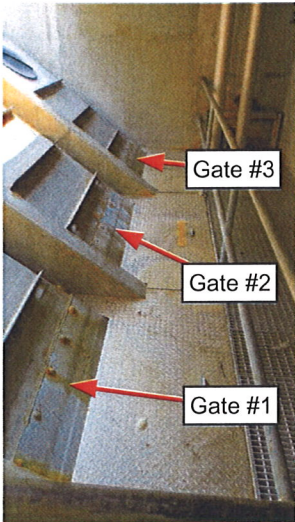
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Lockout Steps

Step #	Action	Info	Verification
8 Hydraulic  Primary Feed	Remove cover and insert isolation gate.	Isolation gates 	Pump out liquid on upstream side of gate and check for leakage.

Lockout Removal Process

1. Ensure all tools and items have been removed. 2. Confirm that all employees are safely located. 3. Verify that controls are in neutral. 4. Remove lockout devices and reenergize machine. 5. Notify affected employees that servicing is completed.



CITY OF PENTICTON OPERATIONAL SAFETY PROCEDURE

AWWTP Confined Space Emergency Procedure

Program, Safety/Confined Space

PURPOSE: To direct staff in the event of a confined space emergency

PERSONAL PROTECTIVE EQUIPMENT:
Head Protection: Hardhat
Foot Protection: Steel Toed Boots
Hand Protection: Work Gloves
Other: Coveralls

- PROCEDURES:**
1. If, at any time during a confined space entry, the worker is incapacitated for any reason and can not leave the confined space, the stand-by worker immediately summons 911, with the plant cell phone. The stand-by person informs the other staff members by 2 way radios of the situation so that plant personnel can be used to assist.
 2. Inform the 911 where exactly you are and that this is a confined space emergency. If the confined space is at the Wastewater Plant, get another worker to meet the Fire dept. at the plant gates.
 3. If, at any point, the atmosphere contaminants are at a level to trip the alarm on the gas detectors or any adjacent channel hi level alarm, the worker must be removed from the confined space by immediately winching the worker out. If the worker is unable to be winched out due to entanglement, the worker is allowed to unhook the life line and climb out. If the worker cannot do that, or is unconscious, the stand-by worker should move the ventilation discharge as close to the workers head as possible and wait for the Fire Dept.
 4. If a worker has been injured in a confined space, and the atmosphere is O.K., then leave the worker where they are, DO NOT MOVE THEM UNLESS THE ATMOSPHERE CHANGES. The Stand-by worker can hook onto the second safety winch, as long as another worker comes out to act as the Stand-by person, and enter the confined space to give first aid if it is needed. Otherwise, wait for the Fire Dept. to arrive.

REFERENCES: City of Penticton Confined Space Policy

TOOLS:

Ventilator
GFI
Gas Detector
Cell Phone
Uni-Hoist or Tripod
2 Safety Winches
2 Fall protection Body Harnesses
2 way radios

MATERIALS:

Developed by: Operations/Waste Water Treatment	
Development Team: Randy Craig, Gord Austrom, Gary Marsden	
Reviewed By: Jason Jeffrey - Safety Coordinator	Approved By: Randy Craig - Supervisor
Originated Date: 03/01/2005	Last Modified: 31/07/2018

