

# SAFE JOB PROCEDURE

Revised: May 2024

#### SJP-07 COLD CUTTING EXISTING PIPE

# Purpose/Application

Cold cutting pipe is a procedure of cutting piping where introducing heat (i.e., through a cutting torch or a grinder) isn't an option. Where operational lines are being cut, no work may proceed until the line operator/owner has demonstrated that the system has been isolated and proven zero energy in accordance with CPES's COP 05 – Lock Out Tag Out. Note\* cathodic systems are often overlooked during the Lock Out process, where cathartic systems are installed, verify zero energy before proceeding with work.

\*Note: Before any work may proceed on existing systems, the potential presence of hazardous substances (e.g., NORMs, Benzine, Iron Oxide, H2S) must be addressed with the site Owner/Prime Contractor. If the presence of hazardous substances cannot be ruled out then mitigation (e.g., monitoring, training, specialized PPE, etc.) must be implemented before starting the task (see SWP/COP relevant to the substance for more information).

#### <u>PPE</u>

Strike Minimum PPE

**TRAINING** 

- Strike New Worker Orientation
- TOOLS/EQUIPMENT
- Pipe-cutters
- Air compressor or generator (where required)
- Mechanical Lifting device
- Chain grip pliers
- Bonding cables

#	Job Steps	Hazards	Control Measures
1	Prepare the cutting equipment	<ul> <li>Motion – Pinch points around equipment, lifting, moving material</li> </ul>	<ul> <li>Use spotters when moving equipment into location</li> <li>Utilize mechanical lifting or team lifting to move tools and equipment</li> </ul>
2	Cut pipe	<ul> <li>Motion – Pinch points around equipment, lifting, rotating equipment</li> <li>Motion – Energy in the pipe that may be released when the pipe is cut causing the pipe to move</li> <li>Electrical - Stored energy (e.g., cathodic, static)</li> <li>Toxic - Release of fumes or hazardous substances</li> </ul>	<ul> <li>Ensure all workers are out of the line of fire when completing the cut</li> </ul>
3	Remove the cold cutter from the Pipe		<ul> <li>Proper body positioning</li> <li>If cutters do not rotate freely on pipe. Step back and reassess.</li> </ul>



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#	Job Steps	Hazards	Control Measures		
		<ul> <li>Motion - Pinch Points, Cutter's binding against pipe</li> </ul>	<ul> <li>Control pipe tension with mechanical aids so cutters can rotate freely and be removed safely.</li> <li>Use of proper tools</li> <li>Once it is confirmed there is zero stored energy place pipe cones/skids under pipe for support the pipe that was cut.</li> </ul>		
4	Remove pipe section	<ul> <li>Motion - Pinch points around equipment, lifting, rotating equipment, swinging load</li> <li>Gravity – Falling pipe</li> </ul>	<ul> <li>Keep the work area free of all debris</li> <li>Pre-inspect all rigging and lifting equipment</li> <li>Use taglines to control load</li> <li>Keep all workers clear of the area under the pipe</li> <li>Follow all safe work permit conditions</li> </ul>		
5	Cap exposed pipe ends	<ul> <li>Motion – Sharp edges</li> <li>Chemical – Spills or leaks</li> </ul>	<ul><li>Have spill kit available</li><li>Use approved end caps</li></ul>		
6	Cleanup	<ul> <li>Motion – Tripping on material, pinch points around equipment</li> <li>Gravity - Heavy lifting, dropping material</li> </ul>	<ul> <li>Maintain housekeeping in the work area</li> <li>Use mechanical lifting systems, lift in teams, as required</li> </ul>		

## **REFERENCE/REGULATIONS**

COP 01 Hydrogen Sulphide COP 05 Lock Out – Tag Out COP 09 Safe Work Permit System SWP 11 Compressed Air SWP 18 Tools / Equipment / Machinery SWP 33 Hazardous Materials / Products /Substance SWP 34 Cranes Hoists and Lifting Devices SWP 48 Pipe Handling

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