

SAFE JOB PROCEDURE SJP-07

Revised: March 2024 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 Strike'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).

PPE ■ Strike Minimum PPE

**TRAINING** • Strike New Worker Orientation

**TOOLS/EQUIPMENT** • Pipe-cutters

Air compressor or generator (where required)

Mechanical Lifting device

Chain grip pliersBonding cables

# **Job Steps** Hazards **Control Measures** Prepare the cutting Pre-use inspections on all 1 Motion – Pinch points equipment equipment around equipment, lifting, moving material Use spotters when moving equipment into location Utilize mechanical lifting or team lifting to move tools and equipment Motion – Pinch points 2 Ensure the pipe is securely Cut pipe around equipment, supported during the cut lifting, rotating Ensure all workers are out of the equipment line of fire when completing the Motion – Energy in the pipe that may be Spill tray in place under the cut released when the pipe Only experienced personnel are is cut causing the pipe to operate the equipment to move Monitor cords and lines during Electrical - Stored the cut to keep them from energy (e.g., cathodic, becoming cut static) Monitor for hazardous substances Toxic - Release of fumes as per job-hazardous assessment or hazardous substances Ensure the pipe on either side of the cut is bonded using booster cables and chain grip pliers. Do not remove bonding cables until atmosphere is proven safe



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#	Job Steps	Hazards	Control Measures		
3	Remove the cold cutter from the Pipe	<ul> <li>Motion - Existing stored energy (tension) causing pipe to spring</li> <li>Motion - Pinch Points, Cutter's binding against pipe</li> </ul>	<ul> <li>Proper body positioning</li> <li>If cutters do not rotate freely on pipe.</li> <li>Step back and reassess. Control pipe tension with mechanical aids so cutters can rotate freely and be removed safely.</li> <li>Use of proper tools</li> </ul>		
			Once it is confirmed there is zero stored energy place pipe cones under pipe for support the pipe that was cut.		
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

Developed by:	1.	Dave McLeod	_		Date:	November, 2006
Revised by:	1.	Angie Anton			_	December 30, 2008
Review by:	1.	Rory Jordan	2.	Chad Palazeti	Date:	February 28, 2024
	3.	Trevor Shelton	4.	Brian McConnell	_	
	5.	Vladimir Kopaev			_	
Approved by:	1.	HSE Committee			Date:	March 5, 2024
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