

SAFE JOB PROCEDURE

Revised: March 2024

COLD CUTTING EXISTING PIPE

SJP-07

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).

PPE

CPES Minimum PPE

TRAINING

CPES New Worker Orientation Pipe-cutters

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TOOLS/EQUIPMENT

- Air compressor or generator (where required)
- Mechanical Lifting device
- Chain grip pliers
- Bonding cables

#	Job Steps	Hazards	Control Measures		
1	Prepare the cutting equipment	 Motion – Pinch points around equipment, lifting, moving material 	 Pre-use inspections on all equipment Use spotters when moving equipment into location Utilize mechanical lifting or team lifting to move tools and equipment 		
2	Cut pipe	 Motion – Pinch points around equipment, lifting, rotating equipment Motion – Energy in the pipe that may be released when the pipe is cut causing the pipe to move Electrical - Stored energy (e.g., cathodic, static) Toxic - Release of fumes or hazardous substances 	 Ensure the pipe is securely supported during the cut Ensure all workers are out of the line of fire when completing the cut Spill tray in place under the cut Only experienced personnel are to operate the equipment Monitor cords and lines during the cut to keep them from becoming cut Monitor for hazardous substances as per job-hazardous assessment 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 Remove the cold cutter from the Pipe	Hazards	Control Measures		
3		 Motion - Existing stored energy (tension) causing pipe to spring Motion - Pinch Points, Cutter's binding against pipe 	 Proper body positioning If cutters do not rotate freely on pipe. Step back and reassess. Control pipe tension with mechanical aids so cutters can rotate freely and be removed safely. Use of proper tools 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	 Motion - Pinch points around equipment, lifting, rotating equipment, swinging load Gravity – Falling pipe 	 Keep the work area free of all debris Pre-inspect all rigging and lifting equipment Use taglines to control load Keep all workers clear of the area under the pipe Follow all safe work permit conditions 		
5	Cap exposed pipe ends	 Motion – Sharp edges Chemical – Spills or leaks 	Have spill kit availableUse approved end caps		
6	Cleanup	 Motion – Tripping on material, pinch points around equipment Gravity - Heavy lifting, dropping material 	 Maintain housekeeping in the work area Use mechanical lifting systems, lift in teams, as required 		

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