

SAFE JOB PROCEDURE

April 18, 2018

TIE-IN WELDING (PIPELINE)

SJP-29

PURPOSE/APPLICATION

Tie-in welding is a necessary procedure when building a Pipeline. Tie-in points are where two joints of pipe are welded together to complete a pipeline. Generally, tie-ins are completed in a ditch or Bell Hole. Tie-in welds may also occur above ground as well.

<u>PPE</u>

- Safety Glasses
- Face shield/welders mask
- Welding Gloves
- Fire Retardant Clothing
- Personal Gas Monitor

TRAINING

- Certifications
- Orientation

TOOLS/EQUIPMENT

- Side Boom/Crane
- Cutting Torch
- Grinders
- Line-Up Clamps
- Ladders
- Slings
- Pipeline Skids
- Pipe Beveller
- Tiger Torch
- Propane

#	Job Steps	Hazards	Control Measures	
1	Set pipe in ditch for tie-in weld using Side Boom or Crane	 Suspended loads Mechanical Failure Sling Failure 	 Never work under a suspended load Equipment Inspections Use Tag Lines 	
2	Set pipe on Pipeline Skids or cones in ditch	Pinch PointsConfined spaceImproper Rigging	 Ensure Cones or skids are on level ground and sturdy Competent persons rigging pipe 	



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3	Mark pipe and use beveller or torch to cut to size	 Burns Explosion/Fire Hazard Explosive Atmosphere 	 Monitor Atmosphere at all times Ensure Fire Extinguisher is present Wear all required PPE at all times Ensure pipe is supported by skids or mechanical means on each side of the tie-in point 		
4	Pre-heat pipe as per requirements with Tiger Torch	Burns	 before cutting pipe Never place propane bottles in ditch Use Temperature Sticks or a Heat Probe to determine required temperature 		
5	Attach Line-Up Clamps on pipe for alignment	Pinch points	 Ensure right tools for the job Never place hands in ends of pipe 		
6	Tack Weld joints together in preparation for completion weld	 Arc flash Spark spray Stored Energy 	 Wear PPE Restrict access to area to prevent congestion Rotate Line-Up Clamps when necessary to achieve sufficient tack before removing clamps (50%) 		
7	Remove Line-Up Clamps and finish welding joint	 Heavy lifting 	 Get help for lifting heavy objects Use your legs not your back while lifting heavy objects 		

Additional Precautions:



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REFERENCE/REGULATIONS

Alberta OH&S Code

- Part 2 Hazard Assessment, Elimination and Control
- Part 6 Cranes, Hoists and Lifting Devices
- Part 10 Fire and Explosion Hazards
- Part 14 Lifting and Handling Loads
- Part 18 Personal Protective Equipment
- Part 19 Powered Mobile Equipment
- Saskatchewan OH&S Regulations
 - Part 3 General Duties
 - Part 7 Personal Protective Equipment
 - Part 11 Powered Mobile Equipment
 - Part 13 Hoists, Cranes and Lifting devices
 - Part 14 Rigging
 - Part 25 Fire and Explosion Hazards
- British Columbia OH&S Regulations
 - Part 4 General Conditions
 - Part 8 Personal Protective Clothing and Equipment
 - Part 14 Cranes and Hoists
 - Part 15 Rigging

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