

April 21, 2010

Pipeline Welding
PURPOSE/APPLICATION
PPE

- Hearing protection
- Safety Glasses
- Welders Mask
- Face Shield
- Gloves

TRAINING

- Orientation
- Competency
- Training

TOOLS/EQUIPMENT

- Side Boom
- Welding Trucks
- Seam Turners
- Calipers
- Slings
- Grinders
- Tiger Torch
- Propane Tanks

#	Job Steps	Hazards	Control Measures
1	Buff Pipe Ends	<ul style="list-style-type: none"> ▪ Flying Debris ▪ Pinch Potential ▪ Rotational hazards ▪ Awkward body positioning 	<ul style="list-style-type: none"> ▪ Ensure double eye protection is being utilized while grinding, buffing, chipping, etc. ▪ Ensure all required PPE is being utilized ▪ Stay out of the line of fire
2	Pre-heat pipe with tiger torch to specified temperature	<ul style="list-style-type: none"> ▪ Fire and Explosion ▪ Burns 	<ul style="list-style-type: none"> ▪ Fire extinguisher present ▪ Ensure appropriate hand protection is being worn
3	Install calipers onto pipe, lift pipe with Side Boom and insert pipe end into clamps	<ul style="list-style-type: none"> ▪ Pinch Points ▪ Mechanical failure ▪ Crush potential ▪ Suspended loads ▪ Rigging failure 	<ul style="list-style-type: none"> ▪ Pre inspect ALL equipment prior to use and take any damaged equipment out of service ▪ Never work under a suspended load



#	Job Steps	Hazards	Control Measures
4	Weld pipe together at joint ends	<ul style="list-style-type: none">Arc FlashFlying debrisSparksStored energy	<ul style="list-style-type: none">Ensure welding masks are being utilizedUse double eye protectionEnsure tack welds on pipe cover at least 50% before removing clamps
5	Set welded pipe onto Pipeline Cones or skids	<ul style="list-style-type: none">Uneven ground conditionsPinch PointsDamaged skids or conesMiscommunication	<ul style="list-style-type: none">Ensure Pipeline Cones or skids are sitting on level groundStay out of the line of fireEnsure Cones or skids are in good condition, and replace all damaged onesUse a spotter when necessary to give signals to operator

Additional Precautions:



REFERENCE/REGULATIONS

- Alberta OH&S Code
 - Part 2 Hazard Assessment, Elimination, And Controls
 - Part 7 Emergency Preparedness And Response
 - Part 10 Fire And Explosion Hazards – Section 171 - 174
 - Part 18 Personal Protective Equipment
- British Columbia OH&S Regulation
 - Part 4 Emergency Preparedness And Response – Section 4.13-4.16,
 - Part 8 Personal Protective Clothing and Equipment
- Saskatchewan OH&S Regulations
 - Part 7 Personal Protective Equipment
 - Part 13 Hoists, Cranes And Lifting Devices
 - Part 22 Controlled Products
 - Part 25 Fire And Explosion Hazards
- All Applicable Strike Codes, Rules, Policy’s And Procedures

Developed by:	1. Jay Pilon	2. _____	Date:	Apr 21/2010
	3. _____	4. _____		

Revised by:	1. _____	2. _____	Date:	_____
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