SAFE JOB PROCEDURE **SJP-EI-11**

Revised: February 2021 **INSTALLING MINERAL INSULATED HEAT TRACE**

PURPOSE/APPLICATION

To provide guidance on the safe installation of Mineral insulated heat trace. Mineral insulated heat trace comes in pre-manufactured lengths and is banded to process piping with stainless steel banding to prevent fluids from freezing inside the pipe.

COMMON HAZARD SOURCES AND CONCERNS

PPE

- Strike Minimum Requirements (Hard Hat, Safety Glasses, Safety Footwear, Appropriate Protective Clothing)
- Kevlar Gloves
- Other PPE as per HIAC (Goggles for Drilling, Hearing Protection, Reflective Vest, Face Shield, Fall Protection Equipment, FRC)

TRAINING

- Fall Protection Training (When Required)
- Strike Orientation
- AWP Training and Competency Assessment (Where Required)

TOOLS/EQUIPMENT

- AWP (Where Required)
- Hand and Power Tools
- Tin Snips
- Banding tool
- Step and extension ladders

PRE-JOB ACTIVITIES

1. Harness and Lanyard Inspection (as required)
2. Assess work utilizing the HIAC methodology
3. Inspect all Tools and Equipment – Complete daily pre use inspection of all tools and equipment
4. Inspect Aerial Lift – Complete inspection using CF-S-18 Construction Equipment Daily Pre-Start Checklist (as Required)

	Job Steps	Hazards	Control Measures
1.	Area inspection, plan scope of work	▪ Motion - Congested work area ▪ Gravity - Uneven ground	▪ Flag off work area – as required when working at heights
2.	Un-coil tracer	▪ Gravity - Working at heights ▪ Motion - Congested work area ▪ Human Factors - Muscle strain	▪ Inform other workers in work area ▪ Develop fall protection plan (where required) ▪ Stretch and warm up prior to starting work
3.	Position tracer and band tracer to pipe	▪ Gravity - Working at heights ▪ Motion - Pinch points, Sharp edges, Banding springing	▪ Work at heights to be completed as per COP 06 – Fall Protection ▪ Watch for banding edges, and work in teams where required ▪ Wear gloves
4.	Install JB's	▪ Motion - Sharp edges, Pinch points	▪ Flag off area below (where required) if working at heights ▪ Take microbreaks as required
5.	Install cables in JB's	▪ Gravity - Working at heights ▪ Motion - Sharp edges, Muscle strain	▪ Work in teams as required ▪ Change working positions where repetitive motion is a concern
6.	Clean up all material, tools and garbage	▪ Motion - Tripping hazards	▪ Wear appropriate safety footwear ▪ Watch your footing and avoid stepping backwards
7.	Megger test before and after install insulation is installed	▪ Electrical - Electricity	▪ Work in pairs ▪ Ensure proper communication with everyone in the area ▪ Ensure all lines are not energized ▪ Ensure line is clear

Additional Precautions

- Visually inspect the heat trace after insulation to ensure it has not been damaged.

REFERENCES/ADDITIONAL INFORMATION

Strike Safe Work Practice

- SWP 18 – Tools/Equipment/Machinery
- SWP 22 – Material Handling
- SWP 25 – Ladders
- SWP 32 – Lock Out Tag Out

- COP 05 - LOTO
- COP 06 - Fall Protection

REGULATIONS:

Saskatchewan OH&S Regulation and Code

- Part 11 Powered Mobile Equipment
- Part 12 Scaffolds, Aerial Devices, Elevating Work Platforms and Temporary Supporting Structures

Alberta OH&S Codes

- Part 14 Lifting and Handling Loads
- Part 19 Powered mobile equipment

Manitoba OH&S Code

- Part 4.5 Slipping and Tripping Hazard
- Part 13.7 Ladders
- Part 14.6 Fall Protection
- Part 28.37 Self-elevating work platforms and aerial devices
- Part 38 Electrical Safety

BC OHS Regulations

- Part 11 Fall Protection
- Part 13 Ladders, Scaffolds and Temporary Work Platforms
- Part 19 Electrical Safety

Developed by:	1.	Grant Doepker	2.	Kalvin Kneesch		
	3.	Justin Sluchinski	4.	Shane Mckinnon	Date:	Jan. 19, 2012
	5.	Max Jaremy	6.	Dustin Moore		
	7.	Craig Bowie	8.	Jeff Bacon		
	9.	Brian Couthino		Rob Webster		
Revised by:	1.	Chad Sewall	2.	Harley Whitty	Date:	June 3, 2020
	3.	Blake Pawsey	4.	Harold Nikipelo		
Approved by:	1.	HSE Committee			Date	February 2021