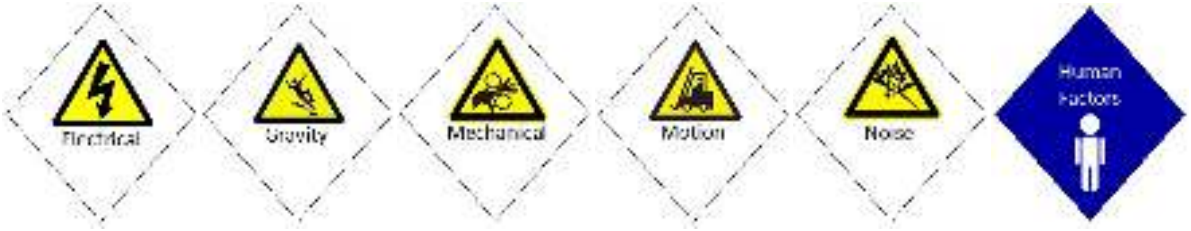
SAFE JOB PROCEDURE **SJP-EI-13**

Revised: February 2021 **Equipment Installation (Transformers, PLC Panels, MCC Sections etc.)**

PURPOSE/APPLICATION

To provide guidance on the safe installation of equipment including transformers, PLC Panels, MCC sections and other large equipment.

COMMON HAZARD SOURCES AND CONCERNS



PPE

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

TRAINING

- Strike Orientation
- Certified Competent Equipment Operator

TOOLS/EQUIPMENT

The following Equipment may be required

- Slings and Clevises
- Mechanical Lifting Equipment
- Rollers
- Tag line
- Ladder
- Appropriate Hand and power tools

PRE-JOB ACTIVITIES

1. Inspect all Tools and Equipment – Complete daily pre use inspection of all tools and equipment
2. Assess work as per HIAC Process, consider the need for rollers or if mechanical lifting possible
3. Conduct tailgate meeting, ensure that equipment operator is involved in the planning stages, that hand signals have been agreed on and blind spots of the equipment have been discussed
4. Designate a signal person to communicate with the operator

#	Job Steps	Hazards and Concerns	Control Measures
1.	Assign a spotter/ signal person	▪ Human Factors - Unclear communication ▪ Motion - moving equipment ▪ Gravity – tripping and slipping sources	▪ Review blind spots of equipment with spotter ▪ Ensure the area is clear of tripping hazards prior to beginning task
2.	Attach the sling to the equipment	▪ Mechanical – pinch points ▪ Motion - Crushing hazard, shifting load, swinging equipment ▪ Gravity – fall from heights	▪ Attach tag lines to load ▪ Ensure no one walks under a suspended load ▪ Use engineered lifting points where available ▪ Inspect all lifting equipment prior to use ▪ Verify lifting equipment is rated for the load ▪ Use proper tag lines ▪ Ensure that workers are clear of the line of fire before lifting ▪ Ensure that all rigging is pre-inspected and rated to meet the lifting requirements
3.	Lift equipment to open area	▪ Gravity – falling equipment, ground conditions ▪ Mechanical - pinch points ▪ Motion - line of fire ▪ Electrical - overhead power lines	▪ Be aware of surroundings be sure you maintain an escape route ▪ Watch hand placement, keep hands clear of crush and pinch points ▪ Use tag line to control the load
4.	Position equipment	▪ Gravity - falling equipment ▪ Motion - body in line of fire, motion ▪ Human Factors - heavy lifting ▪ Gravity - slipping and tripping hazards	▪ Watch hand placement, keep hands clear of crush and pinch points ▪ Maintain proper communication between all involved parties ▪ Clear all no required personnel from the area prior to starting work ▪ Use multiple tag lines to control the load if required ▪ Use pry bars to keep body clear of the line of fire ▪ Maintain proper lifting techniques, lift with legs keep back straight – refer to Strike SWP 22 Material Handling ▪ Ensure housekeeping is maintained during task
5.	Bolt down unit	▪ Motion - Sharp Edges ▪ Mechanical - Metal Shavings from drilling, power tools ▪ Gravity - Pinch points, falling equipment	▪ Safety Goggles ▪ Hearing protection ▪ Pre use inspection on hand tools ▪ Be aware of hand placement, keep hands out of the line of fire ▪ Ensure the unit it secure ▪ Brace the unit if required

Additional Precautions

- Traffic on work site
- Concurrent operations

REFERENCES/ADDITIONAL INFORMATION

Strike Safe Work Practice

- SWP 18 – Tools/Equipment/Machinery
- SWP 22 – Material Handling
- SWP 25 – Ladders
- SWP 54 – Rigging
- SWP 34 – Cranes Hoists and Lifting Devices

REGULATIONS:

Saskatchewan OH&S Regulation and Code

- Part 7 Personal Protective Equipment
- Part 11 Powered Mobile Equipment
- Part 13 Hoists, Cranes and Lifting Devices
- Part 14 Rigging

Alberta OH&S Codes

- Part 2 Hazard Assessment, Elimination and Control
- Part 6 Cranes Hoists and Lifting Devices
- Part 14 Lifting and Handling Loads
- Part 21 Rigging
- Part 18 Personal Protective Equipment
- Part 19 Powered mobile equipment

Manitoba OH&S Code

- Part 4.5 Slipping and Tripping Hazard
- Part 38 Electrical Safety
- Part 23 Cranes and Hoists

BC OHS Regulations

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

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