

 Dufferin Construction <small>A CRH COMPANY</small>		Control number DCC-E3-035				
		<input checked="" type="checkbox"/> Classification		Pertains to :		
		- Policy		E	Q	OH&S
		<input checked="" type="checkbox"/> - Procedure		No	No	Yes
Subject Overhead Power Lines – Safe Job Procedure		- Work instruction				
		- Form				
		- Other (describe):				
Revision number 11	Date of Review / Revision January 18, 2023	Date of 1st issue August 30, 2005				
Originating department Safety	Revised by Title Health and Safety Department	Approved by Title John Serafini CRSP Manager, OH&S				
Distribution Dufferin Construction Company		Page 1 of 3				

1.0 Purpose:

To provide a uniform company wide policy and safe job procedure for safe work in the vicinity of overhead power wires and ground neutral wires.

2.0 Relevant Legislation:

The intent of this policy and procedure is to assist staff in meeting the requirements of Sections 104, 105, 106, 183, 187 and 188 of the Regulations for Construction Projects 627/05 amending O. Reg. 213/91

3.0 Scope:

This policy and procedure will apply if a dump truck, crane, hoisting device, backhoe, power shovel or other vehicle or equipment is operated near an energized overhead electrical conductor and if it is possible for a part of the equipment or its load to encroach upon the minimum distance permitted under section 188 of the Construction Regulations, or when the hoisting device is positioned closer than the length of the boom to an energized overhead electrical conductor.

4.0 Procedure:

- 4.1 A signal person shall be appointed on all projects. This signal person must perform only the task of signaling when in proximity to overhead powerlines. There will be no exceptions.
- 4.2 All sites shall be assessed to determine the associated risk and location of overhead wires that may pose a threat to normal day to day construction activities. This assessment shall occur with the site supervisor and appointed signal person.
- 4.3 Prior to beginning any work, Supervisors or designate, at the project, yard or plant must determine the nominal phase-to-phase voltage rating of all overhead wires that may pose a threat to the work activity to determine the safe proximity distance specified in Regulation 188.
- 4.4 Legible, double sided signs, distributed by the Oakville Shop, shall be posted conspicuously on the construction site, yard or plant location, warning of the danger due to overhead wires. These signs must be attached to hydro poles or be free standing directly under the overhead power line.
- 4.5 Signs in the form of Oakville Shop approved stickers or those that are attached by equipment manufacturers shall be posted at the operator's station, warning all operators of potential overhead electrical hazards.
- 4.6 Signal persons shall be in place at all times when working in the proximity of overhead wires warning the operator each time any part of the equipment or its load may approach the minimum distance.



4.7 The signal person employed shall be;

- Trained, knowledgeable of the hazards and experienced to perform the work;
- In full view of the operator at all times in accordance with 106 (2) and 188 (8) of the Regulations for Construction Projects.
- Perform one task and one task only.

106 (2) “A signaler, shall be in full view of the operator of the vehicle, machine or equipment, crane or similar hoisting device, shovel, backhoe or similar excavating machine”.

188 (8) “A competent worker, designated as a signaler, shall be stationed so that he or she is in full view of the operator and has a clear view of the electrical conductor and of the vehicle or equipment, and shall warn the operator each time any part of the vehicle or equipment or its load may approach the minimum distance”.

- Communicate with all operators and advise that they are the designated signal person.
- Give clear and concise instructions and signals when approaching overhead wires.
- Ensure that the minimum distance to overhead wires is maintained at all times in accordance with Regulation 188 (2) which states;

“No object shall be brought closer to an energized over-head electrical conductor with a nominal phase to phase voltage rating set out in Column 1 of the Table to this subsection than the distance specified to it in Column 2:”

COLUMN 1 Nominal Phase to Phase Voltage Rating	COLUMN 2 Minimum Distance
750 to 150,000 volts	3 metres
More than 150,000 to 250,000 volts	4.5 metres
More than 250,000 volts and over	6 metres

4.8 If at any time the signal person is unsure of the requirements when working in proximity to overhead wires, all activities must immediately stop.

5.0 Responsibility

5.1 Project Superintendents and site supervisors must appoint a designated signal person who performs one task and one task only when in proximity to the minimum distance of overhead powerlines as stated in the table above. This signal person is solely responsible for the safe maneuvering and movement of equipment around or under overhead powerlines.

5.2 Project Superintendents and site supervisors are responsible for assessing all projects, yards and plant locations for overhead power lines and the implementation of this policy and safe work procedure. Project superintendents and site supervisors must ensure the strict adherence to this policy.



5.3 Project Superintendents must ensure signal persons are competent and personnel have received adequate hazard awareness training relating to overhead power lines in strict compliance with Regulation 188 (6).

6.0 Health & Safety Department Personnel shall:

- 6.1 Ensure this policy and procedure is implemented at all construction projects and distributed to all employers working for the Company. Audits of the safe work procedure will be completed during regular site visits and informal / formal assessments.
- 6.2 Provide necessary formal training programs to all personnel working in proximity to overhead electrical hazards
- 6.3 Ensure relevant regular tailgate training meetings are held highlighting the requirements of the Construction Regulations relating to energized overhead electrical conductors.

7.0 Appendix:

Site Specific Hazard Assessment for Overhead Powerlines (DCC-E03-035A)