

**WORKER CRUSHED BY DISTRIBUTION
PANEL DURING INSTALLATION**

Type of Incident: Fatal

Date of Incident: May 15, 2012

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SECTION 1.0 DATE AND TIME OF INCIDENT

1.1 The incident occurred on May 15, 2012, at approximately 12:15 p.m.

SECTION 2.0 NAME AND ADDRESS OF PRINCIPAL PARTIES

2.1 Prime Contractor

2.1.1 OML Construction Services Ltd.
101, 17943-105 Avenue
Edmonton, AB
T5S 2H5

2.2 Employer

2.2.1 Canpo Electric Ltd.
16387-130 Avenue
Edmonton, AB
T5V 1K5

2.3 Workers

2.3.1 Master Electrician (*****

***** **
*** ***)

2.3.2 Journeyman Electrician/Site Electrical Foreman (****

***** **
*** ***)

2.3.3 Apprentice Electrician (*****
** *****
***** **
*** ***)

SECTION 3.0 DESCRIPTION OF PRINCIPAL PARTIES

3.1 Prime Contractor

3.1.1 OML Construction Services Ltd. (OML) provides construction management, design-build, and general contracting services to their clients within Western Canada. OML's head office is in Edmonton, Alberta (AB).

3.2 Employer

3.2.1 Canpo Electric Ltd. (Canpo) provides general electrical contracting services to their clients within the Edmonton Region.

3.3 Workers

3.3.1 Master electrician (***** ***) was a master electrician and had worked for Canpo for 35 years.

3.3.2 Site electrical foreman (**** ***) had been a journeyman electrician in the province of Alberta since 2009 and held a valid Standard First Aid Certificate.

3.3.3 Apprentice electrician (***** ***) was practicing second year as an apprentice for the province of Alberta.

SECTION 4.0 LOCATION OF INCIDENT

4.1 The incident occurred at 151 Century Crossing in Spruce Grove, AB. (Refer to Attachment A – Map).

SECTION 5.0 EQUIPMENT, MATERIAL AND OBSERVATIONS

5.1 Equipment and Material

5.1.1 The Shippers Supply pallet jack. (Refer to Attachment C – Photograph 1).

5.1.1.1 Pallet jack was .52 metres (m) x 1.22 m.

5.1.2 The Hill Phoenix electrical distribution panel (Refer to Attachment B – Diagram and Attachment C – Photograph 2)

5.1.2.1 Distribution panel weighed 812.0 kilograms (kg) during the installation at the time of the incident. Panel dimensions: 25 centimetres (cm) x 12.5 cm vertical length, 25 cm wide, and 5 cm x 21.25 cm horizontal length.

5.1.3 Positioning Materials

5.1.3.1 Pressure safety valve (PSV) piping, 101 millimetres (mm) x 121 mm lumber of various lengths. (Refer to Attachment C – Photograph 3)

5.2 Observations

5.2.1 The scene had been disturbed in order to attempt to perform first aid on the master electrician (***** ***** *****). OML secured the scene until Occupational Health and Safety (OHS) arrived.

5.2.2 The electrical distribution panel was found angled on the south side of the bullards, front side down on the floor, with the overhang elevating the top of the electrical distribution panel. The electrical distribution panel was positioned on top of the pallet jack. (Refer to Attachment C – Photographs 4 and 5)

5.2.3 The master electrician (***** ***** *****) had over 30 years of electrical experience, including installation, and was a master electrician in good standing at the time of the incident.

5.2.4 At the time of the incident, the master electrician (***** ***** *****) was working with a journeyman electrician (**** ***** *****) and an apprentice electrician (***** ***** *****) on the installation of the electrical distribution panel.

5.2.5 The master electrician (***** ***** *****) had access to mobile lifting equipment for the installation of the electrical distribution panel.

5.2.6 A hazard assessment (HA) was completed by Canpo on May 14, 2012. This HA did not address the hazard which caused the fatal incident and was not signed by the master electrician (***** ***** *****).

5.2.7 The building was under construction at the time of the incident. The location within the building where the incident occurred was under development for a large retail store. (Refer to Attachment C – Photograph 6)

SECTION 6.0 NARRATIVE DESCRIPTION OF THE INCIDENT

6.1 In April 2012, the distribution panel arrived at the worksite and was offloaded outside by an OML representative.

6.2 On May 9, 2012, OML representatives moved the distribution panel inside the front entrance of the retail store with a bobcat and forklifts.

6.3 On the morning of May 15, 2012, OML superintendent spoke with the master electrician (***** ***) regarding the placement of the distribution panel onto the housekeeping pad on that day.

6.4 The master electrician (***** ***) proceeded to prepare for the installation of the panel by removing the shipping materials from the distribution panel.

6.5 At approximately 11:00 a.m., site electrical foreman (**** ***) arrived on location and met with the master electrician (***** ***). They then relocated the distribution panel from the front entrance to the housekeeping pad, located at the back of the building, using the pallet jack.

6.6 Site electrical foreman (**** ***), master electrician (***** ***), and apprentice electrician (***** ***) began the preparation of the distribution panel to be inserted onto the housekeeping pad. The distribution panel was hoisted with the pallet jack to position the materials under the distribution panel. The positioning materials consisted of construction surplus materials, PSV piping, and 101 mm x 127 mm lumber of various lengths. The site electrical foreman (**** ***) and master electrician (***** ***) were in the process of attempting to place the distribution panel on the positioning materials. The PSV piping would then allow the distribution panel to roll onto the housekeeping pad. The distribution panel was hoisted approximately 254 mm. As they were positioning the distribution panel, the apprentice electrician (***** ***) came to assist for the placement of the distribution panel.

6.7 The distribution panel needed to be lifted to the east to be put in its proper location. The site electrical foreman (**** ***) was at the north end of the distribution panel, master electrician (***** ***) was at the west side of the distribution panel, and the apprentice electrician (***** ***) was on the south end of the distribution panel. They were having difficulty placing the distribution panel and began to slightly manoeuvre the distribution panel back and forth while on the pallet jack. The motion of the pallet jack and the top weight of the distribution panel caused the panel to fall towards the west where the master electrician (***** ***) was located.

6.8 Site electrical foreman (**** ***) and the apprentice electrician (***** ***) attempted to hold the distribution panel upright to allow the master electrician (***** ***) time to move from the unsafe area. They were unable to hold the distribution panel, and it tipped over.

6.9 The master electrician (***** ***) was trapped underneath the distribution panel's transformer shelf.

6.10 Site electrical foreman (**** * ***** *) and the apprentice electrician (*****
***** *) attempted to lift the distribution panel. Nearby construction workers, who
heard the incident, came to assist to remove the distribution panel. With their assistance, the
master electrician (***** *) was able to get out from under the transformer
shelf of the distribution panel. (Refer to Attachment C – Photograph 6)

6.11 A first aid attendant performed first aid. 911 was contacted by an OML
representative.

6.12 The master electrician (***** *) was transported by ground
ambulance to hospital where the master electrician (***** *) later passed
away.

SECTION 7.0 SIGNATURES

ORIGINAL REPORT SIGNED
Lead Investigator

February 20, 2016
Date

ORIGINAL REPORT SIGNED
Manager

February 24, 2016
Date

ORIGINAL REPORT SIGNED
Director

February 29, 2016
Date

SECTION 8.0 ATTACHMENTS:

Attachment A Map
Attachment C Photographs



Photograph #1 Retail building where the incident took place while under construction at 151 Century Crossing, Spruce Grove, AB.



Photograph #2 Shippers Supply pallet jack .52 m x 1.22 m,
weight capacity 2494 kg.



Photograph #3 The Hill Phoenix electrical distribution panel involved in the incident weighed 812.0 kg. Panel dimensions: 25 cm x 12.5 cm vertical length, 25 cm wide, and 5 cm x 21.25 cm horizontal length.



Photograph #4 Post-incident location of the pallet jack, PSV piping, and lumber that was used to manoeuvre the distribution panel.



Photograph #5 Post-incident photo of the distribution panel positioned after the incident.



Photograph #6 Post-incident position of the distribution panel, PSV piping, lumber.