

March 23, 2007

Mr. Ted Sauve  
Controller  
Teck-Corona Operating Corp.  
P.O. Bag 500  
Marathon, ON  
P0T 2E0

Dear: Mr. Sauve

***Replace 115 kV Circuit Breaker at David Bell mine  
Notification of Conditional Approval of Connection Proposal  
CAA ID Number: 2006-EX311***

Thank you for the detailed information regarding the installation of the new circuit breaker at David Bell mine.

From the information provided, our review concludes that the proposed change will not result in a material adverse effect on the reliability of the IESO-controlled grid.

The IESO is therefore pleased to grant **conditional approval** for the modification detailed in the attached assessment report subject to your signed acknowledgment below. Any material changes to your proposal may require re-assessment by the IESO in accordance with Market Manual 2.10, and may nullify your conditional approval.

**Final approval** to connect the equipment to the IESO-controlled grid will be granted upon successful completion of the IESO Facility Registration process including, without limitation, satisfactory completion of the requirements set out in the System Impact Assessment report. During this process you shall demonstrate the requirements have been fulfilled and the equipment installed has characteristics no worse than those in the proposal assessed by the IESO. Please contact [market.entry@ieso.ca](mailto:market.entry@ieso.ca) if you have not received a Facility Registration Summary package within the next 10 days.

For further information, please contact the undersigned.

Yours truly

Michael Falvo

Manager - Transmission Assessments & Performance

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cc: IESO Records

Teck-Corona Operating Corp. acknowledges receipt of the System Impact Assessment Report setting out the IESO requirements for final approval, and commits to fulfill these requirements, and all other applicable Market Rules, before receiving final approval to connect to the IESO-controlled grid.

Dated: \_\_\_\_\_

Per: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

## ASSESSMENT SUMMARY

### Teck-Corona Operating Corp.

#### 1.0 GENERAL DESCRIPTION

Teck-Corona Operating Corp. is proposing to replace the 115 kV circuit breaker 1502T1L at the David Bell mine near Marathon. The expected in service date is July 2, 2007. The existing configuration is shown in Figure 1.

#### 2.0 PROPOSED MODIFICATION

The Teck-Corona David Bell Mine located near Marathon, Ontario is connected to the Hydro One 115 kV M2W transmission line. The mine is preparing to undertake to replace their present 138 kV, 1200 Amp oil-filled main circuit breaker with a new SF6 circuit breaker in the spring of 2007. The circuit breaker designation is 1502T1L.

The technical specifications for the replacement circuit breaker are given below.

<b>115 kV circuit breaker 1502T1L at TECK NQV1502</b>		
	<b>Original Circuit Breaker</b>	<b>Replacement Circuit Breaker</b>
<b>Configuration</b>	3 phase	3 phase
<b>Type</b>	Oil filled	SF6
<b>Nominal Voltage</b>	138 kV	145 kV
<b>Interrupting Time</b>	20 - 30 msec (based on maintenance records)	3 cycles
<b>Continuous Current</b>	1,200 A	1,200 A
<b>Short Time Current</b>	14.7 kA	40 kA
<b>Manufacturer</b>	not available	ABB
<b>Serial Number</b>	not available	to be advised

#### 3.0 ASSESSMENT

The Transmission System Code (TSC) indicates that the transmission system has to be designed to sustain short circuit currents of 50 kA for the 115 kV system. The circuit breaker noted above is underrated if the neighbouring transmission systems experience maximum fault levels.

Teck-Corona Operating Corp. must ensure that the short circuit current seen by this circuit breaker does not exceed the short time rating of the new equipment. If any future system enhancements in the area result in short circuit levels higher than the capability of the new circuit breaker, Teck-Corona Operating Corp. is required to replace the new equipment with higher rated equipment.

#### 4.0 CONCLUSIONS

It can be concluded that this replacement circuit breaker represents a like-for-like replacement of existing equipment. The new circuit breaker will meet the Market Rules with respect to maximum continuous voltage and will not result in a material adverse effect on the reliability of the IESO-controlled grid.

## 5.0 REQUIREMENTS

The proponent must notify the IESO as soon as it becomes aware of any changes to the assumptions made in the connection assessment. The IESO will determine whether these changes require a re-assessment.

If any future system enhancements in the area result in short circuit levels higher than the capability of the new circuit breaker, Teck-Corona Operating Corp. is required to replace the new equipment with higher rated equipment.

Teck-Corona Operating Corp. is required to meet requirements with respect to protection systems for the replacement circuit breaker and coordination with the existing protection systems, as outlined in the Transmission System Code.

The Market Rules (Chapter 4 section 7.4) require that each connected wholesale customer shall provide the IESO on a continual basis with on-line monitored status as specified in Appendix 4.17. Teck-Corona Operating Corp. will be required to meet the IESO's on-line monitoring requirements.

## 6.0 NOTIFICATION OF CONDITIONAL APPROVAL

It is therefore recommended that a Notification of Conditional Approval of the Connection Proposal be issued, subject to the requirements detailed above.

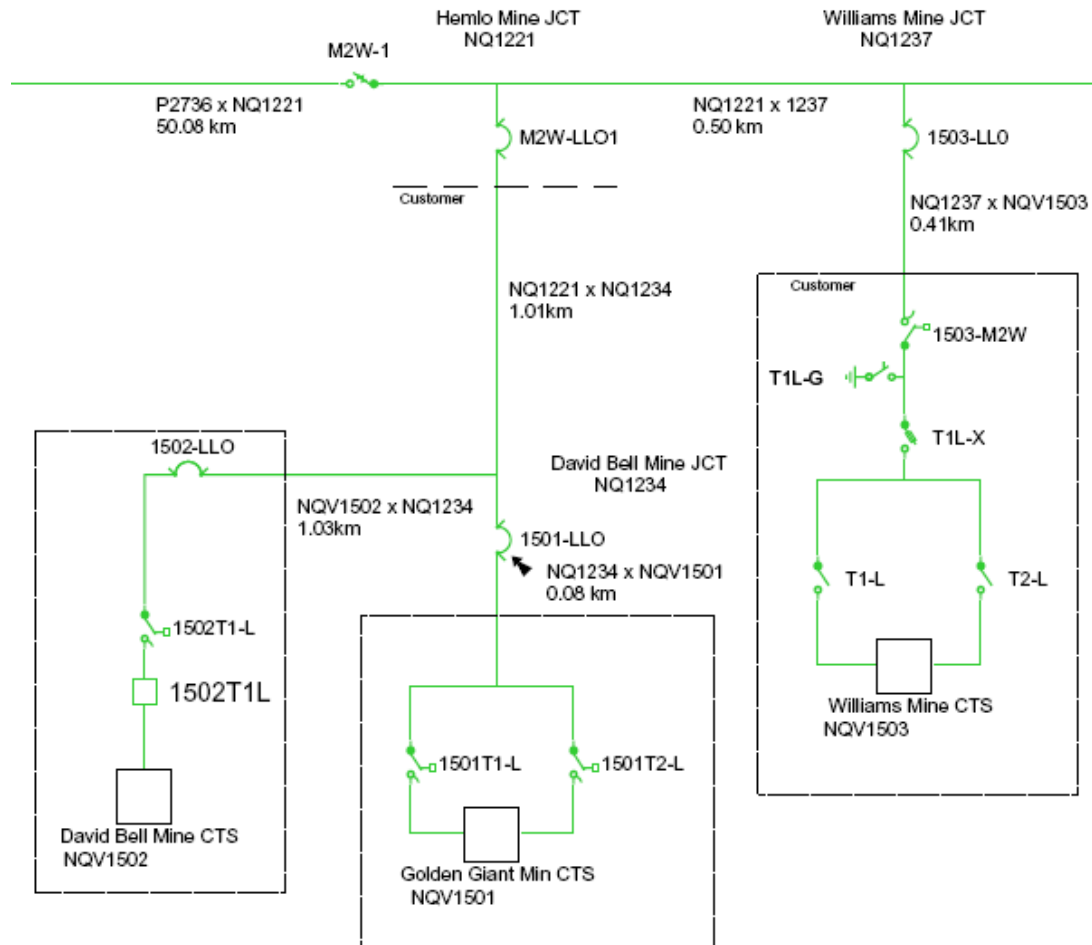


Figure 1: David Bell mine