



Energy, Mines and Resources
PO Box 2703, Whitehorse, Yukon Y1A 2C6

June 4th, 2018

Mr. Yves Brouillette
Mine General Manager
Minto Explorations Ltd.
PO Box 11, Whitehorse, Yukon Y1A 5X9
Sent by email

Dear Mr. Brouillette,

Re: Approval of Copper Keel ramp plan – Minto Mine, Yukon

Pursuant to Section 6.0 of Quartz Mining License QML-0001, (the "License") for the Minto Mine, Minto Explorations Ltd. ("MEL"), submitted the *Underground Mine Development and Operations Plan Amendment Copper Keel Ramp Plan*, dated March 2018 (the "plan") to the Director for review and approval.

By way of this letter, I approve the plan subject to the conditions:

1. Install neutral-grounding device protection on the 4160V feeder(s) to the Minto South mine portal by July 1st, 2018. Note the following sections in the CSA M421, *Use of electricity in mines* standard:

4.5.6 Ground-fault protection

When ground –fault protection is required by the Standard, the supply shall be

- (a) grounded through a neutral-grounding device that limits ground-fault voltage to 100 V or less; and
- (b) de-energized in less than 1 s if ground-fault current exceeds 20% of the prospective ground-fault current.

4.6.2 Neutral-grounding devices

A neutral-grounding device shall be

- (a) continuously rated, except when ground-fault tripping is provided;
- (b) monitored so as to de-energize the supply in less than 60 s if the neutral-grounding device opens; and

- (c) connected as close as practicable to the supply neutral.
2. Submit an updated single-line diagram for the Minto South mine signed and sealed by an electrical engineer by August 1st, 2018. All information and load calculations used in the single-line diagram must be verified by the engineer.
 3. Utilize a ventilation tag board system underground to ensure the minimum ventilation requirements will not be exceeded in Minto East and Copper Keel work areas. Submit an audit of tag board system compliance for the period of June 1-30 by July 15th, 2018. The audit must include:
 - a. day and night shift operating hours by equipment number;
 - b. day and night shift shifter's log or daily report showing active work areas and total mucking and haulage by work area; and
 - c. weekly ventilation surveys
 4. Submit a review of the fabricated brackets used to secure the drill rod strings on the new compressed air and dewatering lines signed and sealed by a mechanical engineer by August 1st, 2018.

Please do not hesitate to contact me at (867) 667-8708 if you have any questions or wish to discuss.

Sincerely,



Paul Christman, P.Eng., P.Geo.
A/Director, Mineral Resources Branch

cc: Kevin McGinty, Mining Manager, Selkirk First Nation
Matthew Jenner, Natural Resources Officer, Compliance Monitoring and Inspections Branch
Mike Henney, Chief Mine Safety Officer, Yukon Workers Compensation Health and Safety Board
Heather Jirousek, Director, Water Resources Branch
Ryan Hebert, Environmental and Permitting Manager, Minto Explorations Ltd.