



August 1, 2013

Chief Inspector's Directive

Park Brake Actuation on Terex MT4400AC Haulage Truck

To: All Inspectors and Mine Managers

Objective:

For all Mine Managers to implement training, procedures and controls to ensure the park brake is applied on the Terex MT 4400 AC Haul Truck when required.

Background:

If the power supply feeding the park brake switch on the dashboard of the Terex MT4400AC haul truck is interrupted while the park brake is in the released position, the park brake switch **will not** apply the parking brake.

For the operator to apply the park brake while the power supply is interrupted to the park brake switch, the operator must "pump" the service brake pedal. This reduces the stored pressure in the service brake accumulators and the parking brake will automatically apply.

History:

This problem came to light when a mechanic set the park brake using the switch on the dash, but the truck then rolled onto the wheel chocks. Upon investigation, the mechanic identified that there was no power to the park brake switch and the park brake had not set.

This mine tested to demonstrate that the parking brake could be set on a fully loaded truck on a 10% grade by pumping the service brakes. This test showed that there was sufficient remaining stored pressure in the service brake accumulators to hold the truck on this grade until the parking brake automatically applied.

Directive:

The Managers of any mine operating a TerexMT4400AC truck, shall put in place the following measures:

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- 1) Document training of all operators of these trucks to ensure operators are aware there is a possibility that selecting "park or apply" using the switch on the dash may not actually cause the park brake to apply, then, specify which actions the operator must take in this situation, to cause the park brake to apply;
- 2) Put in place a Safe Work Procedures that will ensure that if a truck is disabled on a grade that the truck cannot roll away;
- 3) Institute Engineering control(s) to provide the operator with a positive feedback device to indicate that the park brake has in fact set, when the switch is placed in the apply position, regardless of the status of the power supply to the switch on the dash. Modifications affecting breaking systems must be approved by the Chief Inspector;
- 4) The Managers of mines operating the Terex MT4400AC haulage trucks shall provide copies of the above mentioned documents, procedures and Engineering control(s) to the Chief Inspector of Mines and to the Senior Mechanical Inspector for review. The required training and implementation of the Safe Work Procedures shall take place immediately with the Engineering Control(s) to be complete within two (2) months of this date (August 1, 2013).

Sincerely,

A handwritten signature in black ink, appearing to read "Al Hoffman". The signature is fluid and cursive, with a large initial "A" and "H".

Al Hoffman, P.Eng.
Chief Inspector of Mines