



March 26, 2014

A&CC Par No. 103763

Troxel Ltd  
Attention: Kevin Stockwell  
Newby Road  
Hazel Grove  
Stockport  
SK7 5DY  
UK

Dear Mr. Stockwell:

The review of your application, of August 1, 2013, Company Code No. 010813 MSHA for the TX6377 Sentry, Partial Air Monitoring Component, is complete.

The design of this Partial Air Monitoring Component meets the applicable requirements of, Title 30 Code of Federal Regulations, Section 7.507 (30 CFR Section 7.507). We assign Partial Air Monitoring Component Approval No. 07-LPA140001-0 to this design.

The following apply to Partial Air Monitoring Component Approval No. 07-LPA140001-0:

1. The Trolex Model TX6377 Sentry must be built bearing the Air Monitoring Component approval number and according to the drawings and specifications on file at the Mine Safety and Health Administration (MSHA) Approval and Certification Center (A&CC).
2. Each Trolex Model TX6377 Sentry Air Monitoring Component shall be conspicuously labeled to show the company name, model number, and the assigned MSHA Air Monitoring Component Approval number.
3. No changes are permitted to be made to the design of the Trolex Model TX6377 Sentry without MSHA approval.
4. The handbook or manual is not to be changed without MSHA approval.
5. Trolex Model TX6377 Sentry calibration and maintenance is required to be addressed in the mine's Emergency Response Plan (ERP) in which the unit is in service.
6. MSHA may require changes to the design, or modification to the Trolex Model TX6377 Sentry in the field, in the interest of safety.
7. MSHA has the right to revoke this Air Monitoring Component Approval for cause at any time.
8. The air monitor would be considered out of service while the battery is being charged and no spare is available.

9. The air monitoring device was evaluated under this approval for measuring only carbon monoxide, carbon dioxide, methane, and oxygen gases. When used in mines with a history of harmful gases other than carbon monoxide, carbon dioxide, and methane, the end user incorporating this partial air monitoring component into a complete air monitoring component must address the measurement of these other harmful gases.
10. The end user incorporating this partial air monitoring component into a complete air monitoring component is responsible for labeling with calibration dates, recharge dates, and eModule sensors expiration dates. This information shall be contained on a durable tag affixed to the exterior of the refuge alternative structure.
11. The end user incorporating this partial air monitoring component into a complete air monitoring component will need to describe where the Trolex Model TX6377 Sentry will be stored, list procedures for monitoring the air-lock and main chamber and describe in detail how the exterior atmosphere will be monitored from inside of the chamber.
12. The end user incorporating this partial air monitoring component into a complete air monitoring component will need to describe how the Trolex Model TX6377 Sentry will be protected from exposure to a Flash Fire and 15psi overpressure.
13. The end user incorporating this partial air monitoring component into a complete air monitoring component will need to address storage of the Trolex Model TX6377 Sentry in an airtight, waterproof, and rodent-proof manner.

You are required to inform your customers, distributors, and end users of these Conditions of Use requirements.

You will receive an invoice for the cost to process your application.

If you have any comments or questions relative to this letter, please contact Brandon Boring at 304-547-2005.

Sincerely,



Dennis L. Ferlich  
Chief, Approval and Certification Center

File # AM 26049  
Appr. # 07-LPA140001-0  
PAR 103763  
DS06  
Drawing List

**DRAWING LIST**

Trolex Ltd  
Model: TX6377 Sentry  
Partial Air Monitoring Component  
PAR 103763  
Approval Number 07-LPA140001-0  
Investigation No. AM 26049

Sub-Components Used:  
Trolex Ltd.  
Model TX6377.50 Portable Battery Pack  
MSHA Approval Number 18-ISA140004-0

Trolex Ltd.  
Model TX6377 Sentry Portable Environment Monitoring System  
MSHA Approval Number 18-A140004-0

TITLE	DRAWING NUMBER	REV
<sup>ND</sup> General Assembly	P5581-04-M	E
<sup>ND</sup> Certification Label Details	P5580-41-M	A
<sup>ND</sup> User's Manual	TX6377-UM-EN (Pages 1 to 76)*	01

\* Multi-sheet drawing filed as a single entry

<sup>ND</sup> Non-disclosure drawing – Must have written consent from drawing owner to release

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Investigator: Brandon Boring

Date: 3/25/2014