



April 14, 2020

Mr. Christopher Ritter  
MSA Innovation LLC  
1000 Cranberry Woods Dr.  
Cranberry, PA 16066

Re: **ITEM:** Altair 5X Detector  
**MODEL:** IRFR3711ZIRL78335 **VOLTAGE:** 5 VDC **HP:** n/a  
**APSID NO:** 1014384  
**MODIFICATION OF APPROVAL NO. BOTE 8-17**

Dear Mr. Ritter:

We have completed our evaluation of the equipment noted above and approve its use in all bituminous underground coal mines of Pennsylvania. The equipment meets the legal requirements of the *Pennsylvania Bituminous Coal Mine Safety Act*.

Pennsylvania approval number **BOTE 8-17** has been assigned to the equipment. This number must appear conspicuously on the outside of the subject equipment on a **2" x 4"** rust-resistant metal plate, or any other Bureau acceptable material. The approval plate should read "Commonwealth of Pennsylvania" and "Approval No. **BOTE 8-17**." The plate and lettering should be resistant to removal by abrasion.

If you want to make changes or alterations on this equipment, a written request outlining the proposed changes, together with any related prints or drawings, must be submitted to this office for approval.

If you have any questions, please contact Chas Washlack at 724.404.3145.

Sincerely,

A handwritten signature in blue ink that reads "Richard A. Wagner".

Richard A. Wagner, P.E.  
Director

cc: James Ross