



March 14, 2022

Mr. Christopher Ritter
MSA Innovation, LLC
1100 Cranberry Woods Drive
Ryan Lab
Cranberry Twp., PA 16066

Re: **ITEM:** Gas Detector
MODEL NO.: ALTAIR 4X; **SERIAL NO.:** n/a; **VOLTAGE:** n/a; **HP:** n/a
APS ID: 1057664
MODIFICATION OF APPROVAL NO. BFE 32-13

Dear Sir/Madam:

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

Pennsylvania approval number **BFE 32-13** 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. **BFE 32-13**". 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 Chas Washlack at 724.404.3145.

Sincerely,

Richard A. Wagner

Richard A. Wagner, P.E.
Director

cc: James Ross
Arthur Brower