DOCUMENT NO: ASAP 2019 VERSION: 2009-09-09 Page 1 of 3 TITLE: Acceptance or Extension of Acceptance of Ground Wire Monitor Systems MSHA Mine Safety and Health Administration, Approval & Certification Center

#### 1.0 PURPOSE

The purpose of this document is to explain the basic investigative process and outline the minimum documents and requirements necessary to initiate an investigation leading to the issuance of an acceptance or extension of acceptance for a ground wire monitor system.

#### 2.0 SCOPE

This Standard Application Procedure (SAP) encompasses all manufacturers' applications submitted for acceptance or extension of acceptance of a ground wire monitor system. A ground wire monitor system acceptance is issued under Title 30, Code of Federal Regulations for:

- 2.1. Surface applications which include all surface circuits required to be monitored under Sections 77.803 and 77.902.
- 2.2. Underground applications, which are required to be monitored under Sections 18.47(d)(2), 75.803, and 75.902.

### 3.0 REFERENCES

N/A

## 4.0 **DEFINITIONS**

N/A

# 5.0 APPLICATION PROCEDURE

- 5.1. Each application for acceptance or extension of acceptance must include:
- 5.1.1. One completed ground wire monitor system application letter (see Enclosure A). A company official responsible for answering any questions regarding the subject application must sign the application letter.
- 5.1.2. A company application code number, any six-digit or less number assigned by the applicant, which was not previously used, to identify an application.

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- 5.1.3. One copy of each drawing or specification. Documents previously accepted by MSHA need not be submitted, unless modified. All documents must be titled, numbered, dated, and include the latest revision. All documents shall include the statement "Changes in design must be authorized by MSHA before being applied to accepted equipment."
- 5.1.4. All installation instructions and wiring diagrams.
- 5.1.5. Calibration instructions and diagrams.
- 5.1.6. Maintenance and/or testing instructions and diagrams.
- 5.1.7. Lists or bills of material of the component parts necessary to construct one complete system including auxiliary or remotely located parts. This list must specify the manufacturer, component, type of component (carbon composition, wire-wound, electrolytic, etc.), component designation (R1, L3, T2, etc.) tolerance, value, rating, and the manufacturer's part number.
- 5.1.8. Electrical schematic with component designations.
- 5.1.9. Component layout (location diagram with component designations).
- 5.1.10. A sample label design for the acceptance plate. The acceptance plate must include the following minimum information:
- 5.1.10.1. MSHA logo.
- 5.1.10.2. Company name.
- 5.1.10.3. Type of configuration (pilot or pilot-wireless).
- 5.1.10.4. Monitoring method (continuity or impedance).
- 5.1.10.5. Type of device, i.e. "ground wire monitor".
- 5.1.10.6. Input voltage.
- 5.1.10.7. Space for MSHA acceptance number (eleven spaces minimum).
- 5.1.10.8. Tripping relay specification (manufacturer, type, number, etc).

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- 5.1.10.9. Spare component parts for all integrated circuits, transistors, and other components which could be destroyed during MSHA's testing.
- 5.1.10.10. Seven sample units complete for installation. Six production units and one laboratory "breadboard" unit with any IC's, transistors, etc. mounted on sockets. (All parts will be returned after tests are completed).
- 5.2. Upon receipt of the application package by the Approval and Certification Center a letter which includes an estimate of the maximum anticipated fee to complete the investigation and a tentative starting date will be sent to the applicant.
- 5.2.1. An authorization response form will also be included which indicates agreement to pay expenses up to the maximum estimated fee for the investigation or request cancellation of the application. The applicant must return this form before any further action is taken on the application. If the form letter is not returned within thirty days from the date of the letter, the application fee will not be refunded.
- 5.2.2. When unforeseen circumstances are encountered during the investigation, which may result in exceeding the estimated fee, the applicant will be contacted and given the option of canceling the action or accepting the new estimated fee.
- 5.3. During the investigation, applicants will be notified via telephone of any discrepancies or additional information needed to process the application and a follow-up letter will then be sent by mail. Overseas applicants will be notified by airmail, but will not receive a telephone call.
- 5.4. The official acceptance number will be issued via an advance notification letter. The acceptance or extension of acceptance letter will be sent at a later date.
- 5.5. An invoice for the total cost of the investigation, in accordance with Part 5 fees, will follow.
- 5.6. All applicants are encouraged to contact the Chief, Electrical Safety Division at 304-547-2026 if there are any questions relative to these procedures. Assistance through technical consultations is available by appointment.

# (SAMPLE) GROUND WIRE MONITOR ACCEPTANCE/ EXTENSION OF APPLICATION LETTER

Chief, Approval and Certification Center RR #1, Box 251 Industrial Park Road Triadelphia, WV 26059 Company and Address:

BB Electric, Inc. 2 Starlake Avenue Wheeling, WV 26003

Date: 04-29-04

Subject: New Acceptance/Extension of Acceptance the Model BR549 Ground Wire

Monitor

Company Application Code No.: 987654

# Gentlemen:

We are requesting acceptance/extension of acceptance of the subject ground wire monitor built according to Composite Drawing 2B59010.

This Ground wire monitor consists of a central monitor assembly, two phase coupler filters, and one device which is connected in series with the grounding conductor.

The complete installation has been tested according to MSHA's standard test procedure for accepting ground wire monitors. A performance log is enclosed for informational purposes.

Enclosed are all of the new or revised drawings and specifications pertinent to this application. If there are any questions, please contact me at 304-232-9421.

Sincerely,

Harriet W. Long President

# (Enclosure A) GROUND WIRE MONITOR ACCEPTANCE/ EXTENSION OF ACCEPTANCE CHECKLIST

Complete <u>all</u> of the following by adding a check mark on the lines provided. The check mark signifies the item has been positively addressed. N/A signifies the item is not applicable to the design of the ground wire monitor.

 letter is enclo	1. osed.	The appropriate Acceptance or Extension of Acceptance application
	2.	A drawing list and checklist is enclosed.
 in English or	3. transla	All correspondence, specifications, and lettering on documents are ated into English and legible.
 revision or d	4. ate. If	All documents are titled, numbered, dated, and show the latest multiple pages are submitted, this information is on each sheet.
 (referenced) built.	5. back to	All submitted documents, including sheet numbers, are traceable the one or more documents to which the ground wire monitor is
	6.	The assembly drawing(s) includes the following:
resistors (R <sub>1</sub> )	, capaci	a. Location and designation of all electrical components, i.e. itors $(C_1)$ , integrated circuits $(IC_1)$ , etc.
		b. Location of the approval plate and method of attachment.
on the docur	7. nents.	There are no pencil or ink notations, or correction fluid (white-out)
 MSHA" on e	8. ach pag	All documents include a note "Do not change without approval of ge or sheet.
		A complete unit prepared for laboratory evaluation has been The unit has all discrete components mounted so as to be mounted in sockets as necessary.
 following lab	10. oorator	The additional required units will be supplied when requested y evaluation.

	11.	The ground wire device testing will be arranged at an independent
testing high	voltage	laboratory based on your investigator's schedule as requested.
		A letter will be mailed to the investigator from the manufacturer of
the phase co	upler fi	ter capacitors when requested.
	13.	Each approved ground wire monitor shall be identified by a legible
-		ptance plate inscribed with the assigned MSHA acceptance number
and securely	attache	ed to the front of the ground wire monitor.