

**TITLE: Standard Application Procedures for Statement of Test and Evaluation (STE) for Mining Machines and Longwall Mining Systems****MSHA Mine Safety and Health Administration, Approval & Certification Center**

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**1.0 PURPOSE**

This document establishes the Standard Application Procedure (SAP) to be followed by applicants when applying for a Statement of Test and Evaluation (STE).

**2.0 SCOPE**

This SAP applies to all new Basic and Generic STEs, applications; including applications for Longwall Mining Systems and applications submitted under the (RAMP) Revised Approval Modification Program.

**3.0 REFERENCES**

3.1. Title 30 CFR, 75.1719

3.2. Criteria for Using the Crewstation Analysis Program (CAP) to Acquire Light Survey Data for STE Applicants ACRI2006

3.3. Approval and Certification Center Cancellation Policy APOL1009

3.4. Criteria for Acquiring Illumination Data in STE Applicant's Darkroom ACRI2002

**4.0 DEFINITIONS**

4.1. Machine Layout Drawing - A facsimile of the machine showing the location, orientation, glare shielding, diffusion, and any other characteristic of the lights and their positions.

4.2. One-Line Diagram - A drawing showing the lighting system components and other pertinent information related to the requirements of Title 30 Code of Federal Regulations, (30 CFR) , Part 18: i.e. all inter-component cable routing, cable size, type rating and O.D., certification numbers of enclosures, proper two pole switching.

4.3. Electrical Schematic - A drawing showing all electrical connections and devices used within the electrical circuitry of the lighting systems; i.e. electrical overcurrent protection for the cables and proper two pole switching.

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- 4.4. Light Data Survey - A drawing that shows actual light data readings in all the required areas to be illuminated; to ensure that any four (4) square foot area of required illumination surface can be averaged to obtain at least two (2) footcandles.

**5.0 APPLICATION PROCEDURE****5.1. Fees**

- 5.1.1. Upon receipt of the application package by the Approval and Certification Center, a letter will be sent to the applicant which includes an estimate of the maximum anticipated fee to complete the investigation and a tentative starting date.
- 5.1.2. An authorization response form will be included which indicates agreement to pay expenses up to the maximum estimated fee for the investigation or request cancellation of the application. This form must be returned by the applicant before any further action is taken on the application. If the form letter is not returned within thirty days of the letter date, the application will be canceled.
- 5.1.3. The applicant may choose to pre-authorize the fees up to a certain amount by stating the pre-authorization fee in their application letter. This will eliminate the time waiting for the fee authorization response.
- 5.1.4. Applicants who submit applications to MSHA on a regular basis may choose to submit a blanket authorization indicating their agreement to pay incurred fees.
- 5.1.5. When unforeseen circumstances encountered during the investigation 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.
- 5.1.6. An invoice for the total cost of the investigation, in accordance with Part 5 fees, will be sent to the applicant.

**5.2. General**

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There are two types of STE applications for mining machines and longwall mining systems, they are Basic and Generic. The differences are listed below.

	<u>Basic</u>	<u>Generic</u>
Uses this application procedure	<u>Yes</u>	<u>Yes</u>
Covers a specific type of machine	<u>Yes</u>	<u>Yes</u>
Covers more than one manufacturer of a machine	<u>No</u>	<u>Yes</u>
Covers multiple light locations or model numbers	<u>No</u>	<u>Yes</u>
Used for longwalls	<u>Yes</u>	<u>No</u>

### 5.3. Application

Each application shall contain the following information:

- 5.3.1. An Application Request Letter including:
- 5.3.2. Company Assigned Application Code - A six (6) digit or less numeric character assigned by the applicant to identify the application.
- 5.3.3. Basic or Generic, check one block.
- 5.3.4. Machine type, ( roof bolter, continuous miner, etc.).
- 5.3.5. MFG, means machine manufacturer.
- 5.3.6. Model, means model number of machine.
- 5.3.7. Canopy/Remote control, check the applicable block(s).

(Appendix A is a sample application letter for a mining machine i.e. continuous miners, roof bolters etc. and Appendix B is a sample for a longwall mining system. If an item doesn't apply, it should be marked N/A.)

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5.3.8. The following drawings and specifications must be submitted.

5.3.8.1. Machine Layout Drawing

5.3.8.2. One-Line Diagram

5.3.8.3. Electrical Schematic

5.3.8.4. Light Data Survey

Light data may be obtained in an applicant's darkroom, in accordance with the A&CC Document "Criteria for Acquiring Illumination Data in STE Applicants Darkroom," (ACRI2002), or illumination data may be obtained from the computer software program "CAP" in accordance with the A&CC document (ACRI2006.)

5.3.9. In addition to the drawings and specifications listed under Section 5.3.8, the following apply to longwall mining systems:

5.3.9.1. Longwall Mining System Layout Drawing - This drawing(s) must include; controller, head, tail, midface, and general overall longwall layout. The drawing(s) must also include any structure pertinent to the light distribution, i.e., spill pan, gob shield, and conveyor drives. Dimensions and angles for the light placements must also be included.

5.3.9.2. Electrical Schematic - Must show compliance to 30 CFR Part 75.1719-2.

5.4. Longwall Mining System Inspection

5.4.1. Because of the size and complexity of longwall mining systems, it may not be practical to submit an STE application based on readings acquired in an applicant's dark room. If the applicant chooses not to submit light data obtained from a registered version of the CAP computer program, then the applicant will be responsible for conducting an inspection of the longwall lighting system.

5.4.2. MSHA reserves the right to conduct an inspection of a longwall mining system to determine compliance with Title 30 CFR, 75.1719-3 as needed, based on the complexity or unusual features of the lighting components. All travel costs related to the inspection will be billed to the applicant.

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## 5.5. Discrepancies

5.5.1. If an application contains discrepancies, the applicant will be contacted by telephone and a letter detailing the discrepancies will be mailed or faxed to the applicant. Applications will be canceled for insufficient response, or for delays in responding in accordance with the A&CC Cancellation Policy APOL1009.

5.6. After the application review is complete and there are no outstanding discrepancies, an acceptance letter will be mailed to the applicant. The acceptance letter will list the drawings and their revisions upon which the acceptance is based. Applicants must include a copy of these drawings whenever the acceptance letter is distributed. It is the applicant's responsibility to ensure that the drawings that are distributed to their customers and others are the identical drawings that the STE is based upon.

5.7. MSHA reserves the right to rescind for cause, any STE issued.

(Appendix A)  
**STE APPLICATION LETTER**  
**Mining Machine**

Chief, Approval and Certification Center  
765 Technology Drive  
Triadelphia, WV 26059

Applicant Name & Address:

Contact : \_\_\_\_\_  
Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_ Date: \_\_\_\_\_

Type: \_\_\_\_\_ Basic \_\_\_\_\_ Generic

Machine Information

Type: \_\_\_\_\_ Mfg: \_\_\_\_\_ Model: \_\_\_\_\_  
Canopy: \_\_\_\_\_ with \_\_\_\_\_ without \_\_\_\_\_ opt.

Remote Control: \_\_\_\_\_ with \_\_\_\_\_ without \_\_\_\_\_ opt.

Entry Dimensions

Maximum Height \_\_\_\_\_ Minimum Height \_\_\_\_\_

Maximum Width \_\_\_\_\_ Minimum Width \_\_\_\_\_

Drawings

Machine Layout / Lighting Fixture  
Arrangement Drawing \_\_\_\_\_ Rev. \_\_\_\_\_  
One Line Drawing \_\_\_\_\_ Rev. \_\_\_\_\_

Electrical Schematic Drawing \_\_\_\_\_ Rev. \_\_\_\_\_

Data Survey Drawing \_\_\_\_\_ Rev. \_\_\_\_\_  
Other \_\_\_\_\_ Rev. \_\_\_\_\_

(Appendix B)  
**STE APPLICATION LETTER**  
**Longwall Mining System**

Chief, Approval and Certification Center    Applicant Name & Address:  
765 Technology Drive  
Triadelphia, WV 26059

Contact : \_\_\_\_\_  
Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_                      Date: \_\_\_\_\_

Machine Information

Shield Mfg: \_\_\_\_\_    Model: \_\_\_\_\_

Entry Dimensions

Maximum Height \_\_\_\_\_                                      Minimum Height \_\_\_\_\_

Drawings

Longwall Layout / Lighting Fixture Arrangement Drawing	_____	Rev. _____
	_____	Rev. _____
	_____	Rev. _____
One Line Drawing	_____	Rev. _____
Electrical Schematic Drawing	_____	Rev. _____
Data Survey Drawing	_____	Rev. _____