

Title/Subject: Standard Application Procedure for Statement of Test and Evaluation (STE) for Mining Machines and Longwall Mining Systems		
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Signature/Initial: Steven J. Luzik		

Standard Application Procedure for Statement of Test and Evaluation (STE) for Mining Machines and Longwall Mining Systems

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, extension of STE applications and applications submitted under the Revised Approval Modification Program (RAMP) for mining machines and longwall mining systems. *(Extensions of STEs will only be issued for STEs dated before October 1, 1987. Modifications to STEs after this date should be submitted under the Revised Approval Modification Program RAMP.)*

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
- 3.5 Standard Operating Procedure for Processing Statements of Test and Evaluation (STEs)

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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.
- 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 Fees

Application fees will be charged on an hourly basis per Title 30 Code of Federal Regulations (30 CFR), Part 5. An invoice will be sent to the applicant for the cost of processing the application.

6.0 General

- 6.1 The technical illumination requirements for mine lighting are listed in 30 CFR Part 75.1719.
- 6.2 This SAP applies to new Basic and Generic STE applications, extensions of STEs and STE applications submitted under the Revised Approval Modification Program (RAMP).

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6.3 A longwall lighting system application may require an on-site inspection.

6.4 There are two types of STE applications, Basic and Generic. The differences are illustrated 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>

7.0 Procedure

Applications shall be sent to:

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

8.0 Application Requirements

Each application shall contain the following information:

8.1 STE Application Request Letter.

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The information required for longwalls and machines are different. Samples are included in the Appendix and may be used. All pertinent information as shown on the samples should be included, or items that don't apply should be marked as N/A .

8.1.1 Company Assigned Application Code - A six (6) digit or less numeric character assigned by the applicant to identify the application.

8.1.2 Basic or Generic, check one block.

8.1.3 Machine type, (bolter, continuous miner, etc.).

8.1.4 MFG, means manufacturer.

8.1.5 Model, means model number of machine.

8.1.6 Canopy/Remote control, check the applicable block(s).

8.2 Drawings and Specifications

Drawings and specifications shall be sufficient in detail to identify fully the complete assembly, component parts and subassemblies. Drawings shall be titled, numbered, dated, and show the latest revision. Previously accepted drawings that have been modified and submitted should contain an updated revision. The modification should not invalidate, or eliminate previously accepted drawing information. Each drawing shall include a warning statement that: "Changes that have not been authorized by MSHA, will result in the modified lighting system being out of compliance with the STE. "

The following drawings/specifications must be submitted:

8.2.1 Machine Layout Drawing

8.2.2 One-Line Diagram

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8.2.3 Electrical Schematic

8.2.4 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.)

8.3 Additional Requirements for Longwall Lighting Systems - All of the above requirements under Section 8.2 plus the following:

8.3.1 Longwall Mining System Layout Drawing - This drawing(s) must include; controller, head, tail, midface, and general overall longwall layout. The drawing(s) should 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 should also be included.

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

8.3.3 A Longwall STE inspection when required will be conducted by the applicant, according to the Standard Operating Procedure for Processing Statements of Test and Evaluation (STEs)

9.0 Acceptance Letter

A letter of acceptance will be issued to the applicant after MSHA finds the application and its contents to be correct and accurate. The acceptance letter will list the drawings and their revisions upon which the acceptance is based. Applicants should include a copy of these drawings whenever the acceptance letter is distributed. It is the applicant's responsibility to ensure that the

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drawings that are distributed to their customers and others are the identical drawings that the STE is based upon.

10.0 Discrepancies/Cancellation of Application

- 10.1 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 that exceed allowed time frames stated in the A&CC Cancellation Policy APOL1009.
- 10.2 Longwall lighting system inspections, if required, will be conducted only after any outstanding application discrepancies have been resolved.
- 10.3 MSHA reserves the right to rescind for cause, any STE issued under this Standard Application Procedure.

11.0 Forms

The following forms are found in the Appendix. These forms may be reproduced by the applicant.

- 11.1 "STE Application Letter - Mining Machine" - To be used for new Basic or Generic machine applications.
- 11.2 "STE Extension Application Letter - Mining Machine" - To be used when modifying previously accepted STEs, specifically those STEs issued before October 1, 1987.
- 11.3 "STE Application Letter - Longwall Mining System" - To be used for longwalls only.

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11.4 "STE Extension Application Letter - Longwall Mining System " - To be used when modifying previously accepted longwall STEs, specifically those STEs issued before October 1, 1987.

12.0 Responsibility

It is the applicant's responsibility to ensure all the requirements of this procedure are met. The applicant should provide complete and accurate information.

13.0 Distribution

Electrical Safety Division personnel and all STE applicants.

14.0 Review

This document will be reviewed within three years of the issue date.

15.0 Authority

Code of Federal Regulations Title 30.
Chief, Approval and Certification Center

STE APPLICATION LETTER
Mining Machine
(sample)

Chief, Approval and Certification Center
RR #1, Box 251
Industrial Park Blvd.
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. _____

(Note: changes should not adversely effect the light levels necessary to illuminate the required surfaces based on the entry dimensions of the original STE.)

STE EXTENSION APPLICATION LETTER
Longwall Mining System
(sample)

Chief, Approval and Certification Center Applicant Name & Address:
RR #1, Box 251
Industrial Park Blvd.
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. _____
Data Survey Drawing	_____	Rev. _____

Brief description of change:

(Note: changes should not adversely effect the light levels necessary to illuminate the required surfaces based on the entry dimensions of the original STE).