

## 1.0 PURPOSE

To provide guidance to the Electrical Safety Division investigator, establish a procedure and guidelines for the design of instrument approval/certification plates, and ensure uniformity of the designs provided to the applicant.

## 2.0 SCOPE

2.1. This procedure applies to all instrument approval/certification plate designs required under parts 18, 19, 20, 22, 23 and 27.

2.2. The following requirements are for the approval or certification plate artwork designed by the investigator and provided to the approval/certification holder.

## 3.0 REFERENCES

3.1. 30CFR 1.2: "The emblem of the Mine Safety and Health Administration is of contemporary design with the letters and acronym of the administration delineated as MSHA appearing in large letters in the middle of the emblem. Above the letters and acronym appear "United States Department of Labor" and below the letters and acronym appear the words "Mine Safety and Health Administration".

3.2. 30CFR 18.11(c): "The approval plate identifies as permissible the machine or accessory to which it is attached, and use of the approval plate obligates the applicant to whom the approval was issued to maintain in his plant the quality of each complete assembly and guarantees that the equipment is manufactured and assembled according to the drawings, specifications, and descriptions upon which the approval and subsequent extension(s) of approval were based."

3.3. 30CFR 19.12(a): "Approval plate. The manufacturer shall attach, stamp or mold an approval plate on the battery container of each permissible lamp. The plate shall bear the emblem of the Mine Safety and Health Administration,..."

3.4. 30CFR 20.13: "Approval plate. The manufacturer shall attach, stamp or mold an approval plate on the battery container of each permissible lamp. The plate shall bear the emblem of the Mine Safety and Health Administration,..."

- 3.5. 30CFR 22.10(a)(1): "Manufacturers shall attach, stamp or mold an approval plate on each permissible methane detector. The plate shall bear the emblem of the Mine Safety and Health Administration..."
- 3.6. 30CFR 23.12(a)(1) "Manufacturers shall attach, stamp or mold an approval plate on each permissible device. The plate shall bear the emblem of the Mine Safety and Health Administration..."
- 3.7. 30CFR 27.7: "A certified methane-monitoring system or component thereof shall be identified with a certification plate or label which is attached to the system or component in a manner acceptable to MSHA. The method of attachment shall not impair the explosion-proof characteristics of any enclosure. The plate or label shall be of serviceable material, acceptable to MSHA,..."
- 3.8. ACRI2001 "Criteria for the Evaluation and Test of Intrinsically Safe Apparatus and Associated Apparatus" Section 12.7

#### 4.0 DEFINITIONS

- 4.1. Approval Plate: A tag or plate that is permanently secured by being attached, stamped, etched, or molded to an instrument or complete system, bearing the MSHA logo and conditions of use, to clearly identify it as permissible.
- 4.2. Certification Plate: A tag or plate that is permanently secured by being attached, stamped, etched, or molded to a machine mounted methane monitoring system, bearing the conditions of use, if applicable, to clearly identify it as certified as complying with 30CFR part 27.

#### 5.0 PROCEDURE

- 5.1. Approval Plates.
- 5.1.1. Because of the wide variety of instrument sizes and shapes, there are no specific geometry requirements for approval plates. The font should be black and either "Book Antiqua" or "Arial". The font size is not standard due to the differing number of characters needed per line. However, the format should be as follows (ref appendix 1):
- 5.1.2. Company name centered across the top in capital letters.

- 5.1.3. The word "MODEL" followed by the model name or series number centered across top under company name in capital letters.
- 5.1.4. The word "PERMISSIBLE," followed by the type of equipment, centered below the model in capital letters.
- 5.1.5. The MSHA logo (Ref 30CFR 1.1) to the left.
  - 5.1.5.1 The size of the MSHA logo can be varied but all dimensions must maintain their original proportions. The logo must be large enough so that the small print (United States Department of Labor, Mine Safety and Health Administration) is readable. In extenuating circumstances, the small print can be abbreviated to: "U.S. Dept. of Labor" and "Mine Safety and Health Admin."
- 5.1.6 The words "APPROVAL NO." followed by the appropriate approval number to the right of the logo.
- 5.1.7 The statement "TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY" centered under the logo and the previous statement.
- 5.1.8 The word "WARNING" followed by warning, caution, or conditions of use statements across the bottom in lower-case, bulleted format enclosed in a box.
- 5.1.9 Combined approval plates, such as MSHA-NIOSH or MSHA-UL are permitted, but the basic MSHA approval plate format described should be followed as closely as possible.
- 5.2 Certification Plates.
  - 5.2.1 Because of the wide variety of instrument sizes and shapes, there are no specific geometry requirements for certification plates. The font should be black and either "Book Antiqua" or "Arial". The font size is not standard due to the differing number of characters needed per line. However, the format should be as follows (ref appendix 2):
  - 5.2.2 Company name centered across the top in capital letters.
  - 5.2.3 The word "MODEL" followed by the model name or series number centered across top under company name in capital letters.
  - 5.2.4 The type of equipment, centered below the model in capital letters.

- 5.2.5 The MSHA logo (Ref 30CFR 1.1) to the left\*.

*\*Note: This is not a requirement.*

The size of the MSHA logo can be varied but all dimensions must maintain their original proportions. The logo must be large enough so that the small print (United States Department of Labor, Mine Safety and Health Administration) is readable. In extenuating circumstances, the small print can be abbreviated to: "U.S. Dept. of Labor" and "Mine Safety and Health Admin."

- 5.2.6 The words "CERTIFICATION NO." followed by the appropriate certification number(s) to the right of the logo.
- 5.2.7 The statement "CERTIFIED AS COMPLYING WITH THE APPLICABLE REQUIREMENTS OF 30 CFR PART 27."
- 5.2.8 On special occasions, a specialized statement will be needed. An example of such an occasion would be an explosion proof methane monitoring system. In this event the statement "CERTIFIED AS COMPLYING WITH THE APPLICABLE REQUIREMENTS OF 30 CFR PARTS 18 AND 27" should be used in place of 5.2.7.
- 5.2.9 The word "WARNING" followed by warning, caution, or conditions of use statements across the bottom in lower-case, bulleted format enclosed in a box.

## Appendix 1

Sample Approval plate:

<b>[COMPANY NAME]</b>	
<b>MODEL(S) [XXXXXXXXX, XXXXX]</b>	
<b>PERMISSIBLE [TYPE OF EQUIPMENT]</b>	
	<b>APPROVAL NO. [XX-AYYXXXX-X]</b>
<b>TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY</b>	
<b>WARNING:</b> <ol style="list-style-type: none"><li>1. [Statement 1]</li><li>2. [Statement 2]</li><li>3. [Statement 3]</li></ol>	

## Appendix 2

Sample Certification plate:

<b>[COMPANY NAME]</b>	
<b>MODEL [XXXX]</b>	
<b>[TYPE OF EQUIPMENT]</b>	
	<b>CERTIFICATION NO.</b> <b>[27-AYYXXXX-X]</b>
	<b>CERTIFICATION NO.</b> <b>X/P-[18-XPAYYXXXX-X]</b>
<b>TESTED FOR INTRINSIC SAFETY IN METHANE-AIR MIXTURES ONLY</b>	
<b>WARNING:</b> 1. [Statement 1] 2. [Statement 2] 3. [Statement 3]	