TITLE: Standard Application Procedure for Part 7 Motor Approvals, Extension of Approvals, and Subsequent Approvals

1.0 PURPOSE

The purpose of this Standard Application Procedure (SAP) is to explain the basic investigative process and outline the minimum document requirements necessary to initiate an investigation leading to the issuance of an Electric Motor Assembly Approval, Subsequent Approval, or Extension of Approval under 30 CFR Part 7.

2.0 SCOPE

This SAP applies to all applications for Electric Motor Assembly Approval, Subsequent Approval, or Extension of Approval under Part 7, Subpart J.

3.0 REFERENCES

This SAP refers to "Application Cancellation Policy", APOL1009.

4.0 **DEFINITIONS**

- 4.1. Approval- A document issued by MSHA which states that a product has met the requirements of this part and which authorizes an approval marking identifying the product as approved.
- 4.2. Extension Of Approval- A document issued by MSHA which states that the change to a product previously approved by MSHA under this part meets the requirements of this part and which authorizes the continued use of the approval marking after the appropriate extension number has been added.
- 4.3. Subsequent Approval A product that is similar to one for which the applicant already holds an approval.

5.0 APPLICATION PROCEDURE

- 5.1. All applications must include the following information:
- 5.1.1. Application Letter Each application letter for approval of a product should include a brief description of the product, and, if appropriate, a statement indicating whether, in the applicant's opinion, testing is required. If testing is not proposed, the applicant should explain the reasons for not testing. The application letter must be signed by the person responsible for answering any questions regarding the subject application. (Refer to Enclosures A, B, and C for completed samples.)

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5.1.2. Certified Statement(s), as required by Part 7. (Refer to Enclosure D.)

- 5.1.3. A checklist (Refer to Enclosure E). Submittal of this checklist to MSHA is optional.
- 5.1.4. One copy of all drawings, bills of materials, and specifications that include a composite drawing or drawings showing the details of the design and construction of the electric motor assembly per 30 CFR, Subpart J, Paragraph 7.303.

Note: Documents previously accepted by the Mine Safety and Health Administration need not be submitted, unless modified.

- 5.2. Upon receipt of the application package by the Approval and Certification Center, a fee estimate letter is prepared and sent to the applicant, unless the applicant has a blanket authorization on file. The fee estimate letter includes an estimate of the maximum anticipated fee to complete the investigation and a tentative starting date.
- 5.2.1. An authorization response form is included with the fee estimate. The authorization response form indicates agreement to pay expenses up to the maximum estimated fee for the investigation or requests cancellation of the application. This form must be completed and returned by the applicant before any further action is taken on the application. If the form is not returned within thirty days from the date of the letter, the application is canceled.
- 5.2.2. When unforeseen circumstances encountered during the investigation result in exceeding the estimated fee, the applicant is contacted (either by phone or email) and given the option of canceling the action or accepting the new estimated fee.
- 5.3. During the investigation, applicants are notified if MSHA elects to observe any product testing in accordance with Section 7.4(c), and of any discrepancies or additional information needed to process the application. Applicants are notified by mail and telephone. If an email address is provided, the discrepancy letter may be emailed.
- 5.4. After all the technical documents are evaluated and any changes required as a result of the viewing of any tests and inspection is finalized, the formal Approval, Subsequent Approval or Extension of Approval letter is issued.

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An invoice for the total cost of the investigation is sent after final approval issuance.

- 5.5. Submit the application to MSHA by one of the following methods:
- 5.5.1. Mail to: MSHA Approval and Certification Center

Attention: IPSO

RR #1, Box 251 Industrial Park Road

Triadelphia, WV 26059

- 5.5.2. FAX to: 304-547-2044
- 5.5.3. Electronically: For information and instructions on setting up an account with MSHA go to www.msha.gov .
- 5.6. Additional Information. Applicants may contact the Electrical Safety Division at 304-547-0400 for additional information concerning these procedures.

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SAMPLE

PART 7 ELECTRIC MOTOR ASSEMBLY

APPROVAL APPLICATION LETTER

Chief, Approval and Certification Center RR #1, Box 251 Industrial Park Road Triadelphia, WV 26059 Company and Address: BB Electric Motors, Inc. 2 Starlake Avenue Wheeling, WV 26003

Date: 02-01-2005

Subject: New Approval of the Frame 2XY521 125 hp, 400 to 4160 volt, 3 phase, 60 hertz, alternating current electric motor assembly

Company Application Code No.: 987654

Gentlemen:

We are requesting approval of the subject motor assembly built according to Composite Drawing 2B59010.

A brief description of the electric motor is as follows:

This motor is a fan-cooled motor rated at 125 hp, 400 through 4160 volts. We are asking for approval with a variety of cable glands to be able to meet customer's requests to cover a range of horsepower and voltages.

Explosion testing will be conducted on this motor.

Please advise us when an MSHA representative will be available to witness the tests.

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

Sincerely,

Harriet W. Long President

(Enclosure A)

SAMPLE

PART 7 ELECTRIC MOTOR ASSEMBLY EXTENSION OF APPROVAL APPLICATION LETTER

Chief, Approval and Certification Center RR #1, Box 251 Industrial Park Road Triadelphia, WV 26059 Company and Address: BB Electric Motors, Inc. 2 Starlake Avenue Wheeling, WV 26003

Date: 02-01-2005

Subject: Extension of Approval No. 7J-96021, Frame 250C, 125 hp, 400 to 4160 volt, 3 phase, 60 hertz, alternating current electric motor assembly

Company Application Code No.: 987655

Gentlemen:

We are requesting approval of the subject electric motor assembly built according to Composite Drawing 2B2501C.

A brief description of the subject electric motor assembly is as follows:

The subject motor is similar to the motor approved under 7J-96021-0, Investigation No. PS-15885 in that it is rated 125 hp, 400 through 4160 volts. The frame is identical; however, the drive end plate has changed to accommodate a larger shaft. In addition, the terminal box now accommodates two gland entries, with additional cable ranges specified for the alternate glands.

Explosion testing of this electric motor is not necessary, based on the explosion testing conducted and witnessed by an MSHA representative under Approval 7J-96021-0.

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

Sincerely,

Harriet W. Long President

(Enclosure B)

SAMPLE

PART 7 ELECTRIC MOTOR ASSEMBLY SUBSEQUENT APPROVAL APPLICATION LETTER

Chief, Approval and Certification Center RR #1, Box 251 Industrial Park Road Triadelphia, WV 26059 Company and Address: BB Electric Motors, Inc. 2 Starlake Avenue Wheeling, WV 26003

Date: 2-1-05

Subject: Subsequent Approval of Frame 253YZ, 125 hp, 400 to 4160 volt, 3 phase, 60 hertz, alternating current electric motor assembly

Company Application Code No.: 987656

Gentlemen:

We are requesting a subsequent approval of the subject motor assembly built according to Composite Drawing 2B2532Y.

The subject motor assembly is similar to the Frame 2XY521, 125 hp, 400 to 4160 volt, 3 phase, 60 hertz, alternating current motor, built according to Composite Drawing 2B59010, Approval No. 7J-96021-0, Investigation No. PS-15885, except as follows:

The motor is 562" long X 272" in diameter. The front end plate incorporates a terminal box, which is machined for two gland entrances.

Explosion testing of this motor is not necessary, based on the explosion testing conducted and witnessed by an MSHA representative under approval 7J-96021-0.

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

Sincerely,

Harriet W. Long President

(Enclosure C)

PART 7 MOTOR ASSEMBLIES CERTIFIED STATEMENTS

Cor	mpany: Date:	
Address:		
Sub	ject:	
Company Application Code No.:		
I, _	, as the responsible company official, hereby certify that:	
(1)	The subject motor assembly will have Quality Assurance functions performed as specified in Title 30 Code of Federal Regulations 30 CFR Part 7, Subpart A (7.7).	
(2)	The subject motor assembly has been designed to meet or exceed the design portion of the technical requirements set forth in 30 CFR Part 7, Subpart J (7.304).	
(3)	The subject motor assembly has been tested and meets the performance criteria of the explosion tests set forth in 30 CFR Part 7, Subpart J (7.306). (If applicable)	
(4)	The subject motor assembly has been tested and meets the performance criteria of the static pressure tests set forth in 30 CFR Part 7, Subpart J (7.307). (If applicable)	
(5)	The subject motor assembly has been tested and meets the performance criteria of the lockwasher equivalency tests set forth in 30 CFR Part 7, Subpart J (7.308). (If applicable)	
(6)	The proposed change cited in the application is the only change that affects the	

(Enclosure D)

technical requirements (for subsequent and extensions of approval only)(30 CFR,

Part 7, Subpart J, Section 7.3(f)). (If applicable)

APPROVAL/SUBSEQUENT APPROVAL/EXTENSION OF APPROVAL FOR PART 7 MOTOR ASSEMBLIES

This checklist is designed for the convenience of the applicant. Using this checklist will ensure that the drawings and specifications submitted to MSHA are complete and that all the technical data necessary for approval have been provided. Submittal of this checklist to MSHA is optional.

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

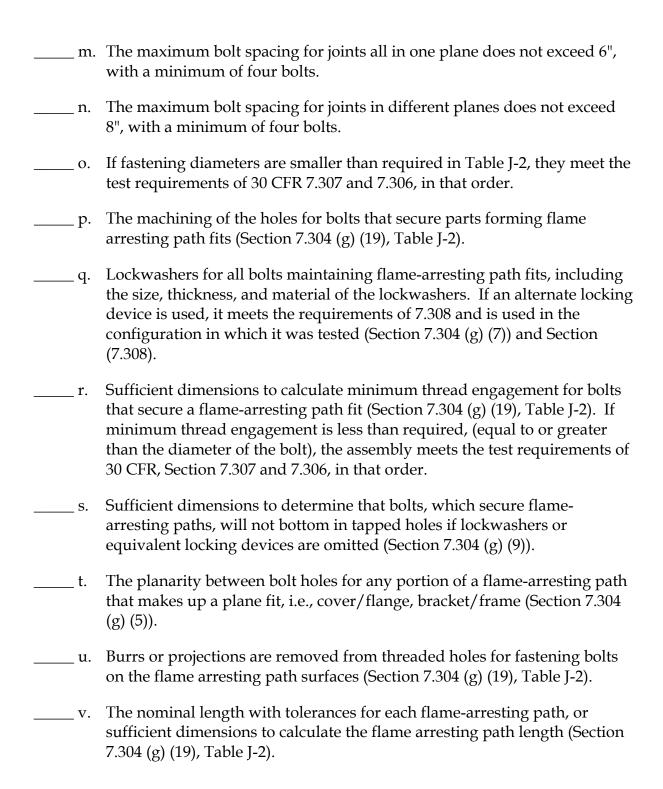
Administrative 1. The approval/subsequent approval or extension of approval application letter is enclosed. 2. All correspondence, specifications, and lettering on documents are in English and are legible. 3. All documents are titled, numbered, dated, include the company name, and show the latest revision level. If multiple pages are submitted, this information is on each page. 4. There are no pencil or ink notations, or correction fluid (white-out) on the drawings and bills of material. 5. A certified statement is included that specifies that the motor assembly will have Quality Assurance functions performed as specified in 30 CFR, Part 7, Subpart A (Section 7.7). 6. A certified statement is included that specifies that the subject motor assembly has been designed to meet the design portion of the technical requirements set forth in 30 CFR, Part 7, Subpart J (Section 7.304). 7. A certified statement is included that specifies that the subject motor assembly has been tested and meets the performance criteria of the explosion tests set forth in 30 CFR, Part 7, Subpart J (Section 7.306), and the static

(Enclosure E) Sheet 1

pressure tests set forth in 30 CFR, Part 7, Subpart J (Section 7.307).

•	A certified statement is included that specifies that the lockwasher equivalency tests have been conducted and meet the performance criteria set forth in 30 CFR, Part 7, Subpart J (Section 7.308).
<u>[echnical</u>	continuos erry raiti, suoparty (sectioni, soo).
9.	The composite drawing(s) includes the following:
a	. Model (type), frame size and rating of the motor (Section 7.303 (a) (1)).
b	o. The overall dimensions of the motor (Section 7.303 (a) (2)).
c	. The internal free volume of the motor (Section 7.303 (a) (2)).
d	l. The approval plate design, material, location, and method of attachment (Section 7.309).
e	e. A general tolerance chart (Section 7.303(a) (4)).
f.	The type and grade of material used to manufacture the motor (Section 7.303 (a).(3)).
8	The size and type of welds, and a note that "Welds are continuous gas tight and made in accordance with American Welding Society Standards AWS D14.4-77" (Section 7.304 (g) (2)) OR meets the test requirements set forth in Section 7.307.
h	The thickness of all walls that form the enclosure (Section 7.304 (g) (19), Table J-2).
i.	The minimum thickness (after machining) of the cover and flanges (Section 7.304 (g) (19), Table J-2).
j.	Surface finish of all flame arresting path surfaces (Section 7.304 (g) (5)).
k	The distance from the interior of the enclosure to the edge of any fastening hole or sufficient dimensions to calculate the distance (Section 7.304 (g) (19), Table J-2).
1.	The size and grade of bolts that secure parts forming a flame-arresting path fit (Section 7.304 (g) (8)).

Enclosure E Sheet 2



Enclosure E Sheet 3

