

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

Tesla Electric Armature & Machine, Inc.
6566 Commonwealth Avenue
Jacksonville, FL 32254

FINAL Permit No: 0310534-001-AC
County: Duval

B. PROJECT

On April 21, 2005 the applicant, Tesla Electric Armature & Machine, Inc., applied, to the Department for a permit to construct an electro-mechanical apparatus repair facility located at 735 North Lane Avenue, Jacksonville, Duval County, FL 32254

II. RULE APPLICABILITY

The facility is located in an area designated as attainment for the air pollutant sulfur dioxide, as unclassifiable for the air pollutant particulate matter less than or equal to ten (10) micrometers, in an air quality maintenance area for ozone, and in the area of influence of an air quality maintenance area for particulate matter pursuant to Chapter 62-204, Florida Administrative Code (FAC), and Rule 2.201, Jacksonville Environmental Protection Board (JEPB).

The facility is a minor source of air pollution because the potential emissions of regulated air pollutants are less than 100 tons per year pursuant to Chapter 62-210, FAC, and JEPB Rule 2.301.

III. TECHNICAL EVALUATION

Emission Unit No. 001 - Cleaning Furnace

This EU shall be allowed to operate a maximum of 1080 hours per year.

The maximum heat input while firing liquid petroleum gas shall not exceed to 0.2×10^6 Btu per hour.

The cleaning furnace afterburner shall maintain a minimum temperature of 1400°F during heat cleaning operation.

Visible emissions (VE) shall not exceed 5 percent opacity except that VE not exceeding 20 percent opacity are allowed for up to 3 minutes in any one hour period.

Objectionable odors shall not be allowed.

Emission Unit No. 002 - Cleaning Furnace

This EU shall be allowed to operate a maximum of 1080 hours per year.

The maximum heat input while firing liquid petroleum gas shall not exceed to 0.5×10^6 Btu per hour.

The cleaning furnace afterburner shall maintain a minimum temperature of 1400°F during heat cleaning operation.

Visible emissions (VE) shall not exceed 5 percent opacity except that VE not exceeding 20 percent opacity are allowed for up to 3 minutes in any one hour period.

Objectionable odors shall not be allowed.

Emission Unit No. 003 - Cleaning Furnace

This EU shall be allowed to operate a maximum of 1080 hours per year.

The maximum heat input while firing liquid petroleum gas shall not exceed to 1.0×10^6 Btu per hour.

The cleaning furnace afterburner shall maintain a minimum temperature of 1400°F during heat cleaning operation.

Visible emissions (VE) shall not exceed 5 percent opacity except that VE not exceeding 20 percent opacity are allowed for up to 3 minutes in any one-hour period.

Objectionable odors shall not be allowed.

Emission Unit No. 004- Cleaning Furnace

This EU shall be allowed to operate a maximum of 1080 hours per year.

The maximum heat input while firing liquid petroleum gas shall not exceed to 0.5×10^6 Btu per hour.

The cleaning furnace afterburner shall maintain a minimum temperature of 1400°F during heat cleaning operation.

Visible emissions (VE) shall not exceed 5 percent opacity except that VE not exceeding 20 percent opacity are allowed for up to 3 minutes in any one hour period.

Objectionable odors shall not be allowed.

Emission Unit No. 005 –Blast Booth

The hours of operation for this emissions unit shall not exceed 1080 hours per year.

The nominal volumetric flow rate from this emissions unit is 8,000 cubic feet per minute.

PM emissions (facility wide) shall not exceed fifteen (15) tons per year.

VE shall not exceed five (5) percent opacity.

IV. CONCLUSION

Based upon information provided by Tesla Electric Armature & Machine, Inc., the Department has reasonable assurance that the proposed electro-mechanical apparatus repair facility, as described in this evaluation and subject to the conditions proposed herein, will not cause, or contribute to a violation of any ambient air quality standard or other technical provision of Chapters 62-296 and 62-297, FAC, JEPB Rules 2.1001 and 2.1101.