Title V Air Operation Permit Renewal
Permit No. 0090051-023-AV

APPLICANT

The applicant for this project is National Aeronautics and Space Administration. The applicant's responsible official and mailing address are:

Mr. Kelvin Manning
Associate Director
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Kennedy Space Center, FL 32899
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FACILITY DESCRIPTION

The applicant operates the Kennedy Space Center, which is located at NASA-KSC, Mail Code: AA-B, Kennedy Space Center, FL 32899.

This is a spacecraft launch facility that contains the following air emission units:

a) Hot Water Generators/Boilers with an individual heat input of at least 10 MMBtu/hr (listed in Attachment 1-A in the appendices of the permit)

b) Surface Coating Operations (listed in Attachment 2-A in the appendices of the permit)

c) Internal Combustion Engines (listed in Attachments 3-A and Attachment 5-A in the appendices of the permit)

d) Hypergol Fueling and Servicing Activities (listed in Attachment 6-A in the appendices of the permit)

e) Portable Aggregate Material Crushing Operations

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities (listed in Appendix U and Appendix I of the permit).

PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Initial Title V Air Operation Permit issued **March 29, 1999**
Renewed Title V Air Operation Permit issued **August 26, 2003**
Renewed Title V Air Operation Permit issued **November 21, 2008**
Air Construction Permit issued **November 21, 2008**
Air Construction Permit issued **October 9, 2009**
Administrative Correction issued **November 23, 2010**
Revised Title V Air Operation Permit Issued **September 24, 2012**
Application for a Title V Air Operation Permit Renewal received **December 7, 2012**
Notice of Intent to Issue Air Permit issued **April 3, 2013**
Public Notice Published **April 8, 2013**

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is not identified as a major source of hazardous air pollutants (HAP).

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is not a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility does operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

- 40 CFR 60, Subpart A, NSPS General Provisions
- 40 CFR 60, Subpart OOO, Nonmetallic Mineral Processing Plants
- 40 CFR 60, Subpart IIII, Stationary Compression Ignition (CI) Internal Combustion Engines
- 40 CFR 60, Subpart JJJJ, Stationary Spark Ignition (SI) Internal Combustion Engines

NESHAP: The facility does operate units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

- 40 CFR 63, Subpart A, NESHAP General Provisions
- 40 CFR 63, Subpart JJJJJJ, Industrial, Commercial, and Institutional Boilers
- 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE)

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility.

PROJECT REVIEW

Changes that were made as part of this renewal are as follows:

(1) Updated RICE NESHAP regulatory requirements for Emergency Engines subject to 40 CFR 63, Subpart ZZZZ, amended by EPA on January 30, 2013. Specific additions include:

A – Added exception to Hours of Operation for those engines in Condition B.2.a and B.2.b.

B – Added specific Hours of Operation Condition B.3. to apply to the emergency engines at the facility which are subject to the Subpart, as required in the Final Rule amendment.

C – Added specific Work or Management Practice Standards Condition B-4 to apply to the emergency engines at the facility which are subject to the Subpart, as required in the Final Rule amendment.

D- Added fuel requirement to Condition B.6 for the emergency engines at the facility which are subject to the Subpart, as required in the Final Rule amendment.

D - Added specific Notification, Performance and Compliance Records Requirement Condition B.21 for the emergency engines at the facility which are subject to the Subpart, as required in the Final Rule amendment.

D - Added specific Reporting Requirement Condition B.22 for the emergency engines at the facility which are subject to the Subpart, as required in the Final Rule amendment.

(2) Updated List of Insignificant Emission Units and/or Activities

CONCLUSION

This project renews Title V air operation permit No. 0090051-018-AV, which was issued on December 2, 2008. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.