

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

Bacardi Bottling Corporation
P.O. Box 26368
Jacksonville, FL 32226-6366

Draft Permit No: 0310014-008-AF
County: Duval

B. PROJECT

The applicant, Bacardi Bottling Corporation, applied on May 20, 2008, to the Department for a Federally Enforceable State Operation Permit (FESOP) to operate the rum processing facility located at 12200 North Main Street, Jacksonville, Duval County, FL 32218.

II. RULE APPLICABILITY

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

The facility is a synthetic minor source of air pollution.

General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions shall apply to EU 001 – 70 Rum Processing, Storage, and Bottling Tanks. The permittee shall allow no person to store, pump, handle, process, load, unload, or use in any installation, VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units and 40 CFR 60, Subpart A, General Provisions, shall apply to EU 002--250 HP Boiler.

Best Available Control Technology Determination applies to EU 002-250 HP Boiler, EU 003--80 HP Boiler, and EU 005--200 HP Boiler in accordance with Rule 62-296.406, FAC, and Rule 2.1001, JEPB.

III. TECHNICAL EVALUATION

Emission Unit No. 001 – 70 Rum Processing, Storage, and Bottling Tanks

Emission Unit Description: 70 Rum Processing, Storage, and Bottling Tanks

This EU shall be allowed to operate continuously; i.e. 8,760 hours per year (hrs/yr).

The maximum rum process throughput rate shall not exceed 25,000,000 gallons per year.

Emission Unit No. 002 - 250 HP Boiler

Emission Unit Description: This EU consists of one steam generating boiler. It is rated at 10.5 MMBTU per hour maximum heat input while firing natural gas and/or very low sulfur content No. 2 fuel oil. The boiler is a Cleaver Brooks model CB-100-250.

This EU shall be allowed to operate continuously; i.e. 8,760 hours per year (hrs/yr).

The maximum heat input for this EU shall be limited to 10.5 MMBtu per hour.

Fuels which may be fired are natural gas or very low sulfur content No. 2 fuel oil.

Particulate Matter (PM) emissions shall be controlled in accordance with the attached Best Available Control Technology (BACT) Determination.

Visible Emissions (VE) shall be limited to 20% opacity continuous. Twenty-seven (27%) opacity shall be allowed for up to six minutes per hour.

Sulfur dioxide (SO₂) emissions shall be controlled in accordance with the attached BACT Determination. The maximum sulfur content of the fuel shall be limited to 0.05%, by weight, in accordance with the BACT Determination.

In addition to the requirements of 40 CFR 60.48c(f)(1) the fuel oil supplier shall certify that the fuel oil contains 0.05% by weight or less of sulfur.

The owner or operator shall submit reports to the permitting authority concerning the fuel oil sulfur limits to which the boiler is subject. The reports shall include calendar dates covered in the reporting period, fuel oil supplier certifications including the name of the oil supplier, a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, a certification from the fuel oil supplier that states the fuel oil contains 0.05% by weight or less sulfur content, and a certified statement from the responsible official that the records of the fuel supplier certifications submitted represent all the fuel oil combusted during the reporting period.

The reporting period for the above condition shall be every six (6) months. Reports shall be submitted within 30 days of the end of the reporting period, i.e., JAN-JUN report submitted by July 30, and JUL-DEC report submitted by January 30. The postmark date shall be the submitted date.

The owner and operator shall record and maintain records of the amounts of each fuel combusted during each day.

Emission Unit No. 003 - 80 HP Boiler

This EU shall be allowed to operate continuously; i.e. 8,760 hrs/yr.

The maximum heat input for this EU shall be limited to 3.36 MMBtu per hour.

Fuels which may be fired are natural gas or very low sulfur content No. 2 fuel oil.

Particulate Matter (PM) emissions shall be controlled in accordance with the attached BACT Determination.

Visible Emissions (VE) shall be limited to 20% opacity continuous. Twenty-seven (27%) opacity shall be allowed for up to six minutes per hour.

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Sulfur dioxide (SO₂) emissions shall be controlled in accordance with the attached BACT Determination. The maximum sulfur content of the fuel shall be limited to 0.05%, by weight, in accordance with the BACT Determination.

Emission Unit No. 005 - 200 HP Boiler

This EU shall be allowed to operate continuously; i.e. 8,760 hrs/yr.

The maximum heat input for this EU shall be limited to 8.4 MMBtu per hour.

Fuels which may be fired are natural gas or very low sulfur content No. 2 fuel oil.

Particulate Matter (PM) emissions shall be controlled in accordance with the attached BACT Determination.

Visible Emissions (VE) shall be limited to 20% opacity continuous. Twenty-seven (27%) opacity shall be allowed for up to six minutes per hour.

Sulfur dioxide (SO₂) emissions shall be controlled in accordance with the attached BACT Determination. The maximum sulfur content of the fuel shall be limited to 0.05%, by weight, in accordance with the BACT Determination.

IV. CONCLUSION

Based upon information provided by Bacardi Bottling Corporation, the Department has reasonable assurance that the rum processing 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, Rules 2.1001 and 2.1101, JEPB.