



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Blanchard Terminal Company, LLC
2101 Zoo Parkway
Jacksonville, Florida 32226
Jacksonville Terminal
Facility ID No. 0310179

PROJECT

Project No. 0310179-024-AC
Application for Air Construction Permit
Increase fuel throughput

COUNTY

Duval, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Northeast District Office
Waste and Air Resource Management Program
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

July 21, 2014

1. GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Facility Description and Location

Blanchard Terminal Company, LLC is an existing bulk petroleum products storage and distribution terminal, which is categorized under Standard Industrial Classification Code No. 5171. The facility is located in Duval County at 2101 Zoo Parkway, in Jacksonville, Florida 32226. UTM Coordinates: Zone 17, 441.800 km East and 3364.630 km North; Latitude: 30° 24' 50" North and Longitude: 81° 36' 21" West.

This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal Ambient Air Quality Standards (AAQS).

Facility Regulatory Categories

- The facility **is not** a major source of hazardous air pollutants (HAP).
- The facility **has no** units subject to the acid rain provisions of the Clean Air Act.
- The facility **is** a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility **is not** a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Project Description

Air construction permit to increase the facility-wide maximum fuel throughput from 450.0 to **600.0** x 10⁶ gallons per year of gasoline, aviation gasoline, denatured ethanol, gasoline/denatured ethanol/butane blends, and/or gasoline/denatured ethanol blends (12 month rolling total) and 260.0 to **300.0** x 10⁶ gallons per year of kerosene distillate oil (12 month rolling total). This project will not require any changes of the equipment, tanks, piping, fugitive fittings, etc.

Processing Schedule

7/15/2014 Received the application for an air pollution construction permit.

2. PSD APPLICABILITY

General PSD Applicability

For areas currently in attainment with the state and federal AAQS or areas otherwise designated as unclassifiable, the Department regulates major stationary sources of air pollution in accordance with Florida's PSD preconstruction review program as defined in Rule 62-212.400, F.A.C. Under preconstruction review, the Department first must determine if a project is subject to the PSD requirements ("PSD applicability review") and, if so, must conduct a PSD preconstruction review. A PSD applicability review is required for projects at new and existing major stationary sources. In addition, proposed projects at existing minor sources are subject to a PSD applicability review to determine whether potential emissions *from the proposed project itself* will exceed the PSD major stationary source thresholds. A facility is considered a major stationary source with respect to PSD if it emits or has the potential to emit:

- 250 tons per year or more of any regulated air pollutant; or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the following 28 PSD-major facility categories: fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (with thermal dryers), Kraft pulp mills, portland cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production plants, chemical process plants, fossil fuel boilers (or combinations thereof) totaling more than 250 million British thermal units per hour heat input, petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels, taconite ore processing plants, glass fiber processing plants and charcoal production plants.

Once it is determined that a project is subject to PSD preconstruction review, the project emissions are compared to the "significant emission rates" defined in Rule 62-210.200, F.A.C. for the following pollutants: carbon monoxide (CO); nitrogen oxides (NO_x); sulfur dioxide (SO₂); particulate matter (PM); particulate matter with a mean particle diameter of 10 microns or less (PM₁₀); volatile organic compounds (VOC); lead (Pb); fluorides (Fl); sulfuric acid mist (SAM); hydrogen sulfide (H₂S); total reduced sulfur (TRS), including H₂S; reduced sulfur compounds, including H₂S; municipal waste combustor organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans; municipal waste combustor metals measured as particulate matter; municipal waste combustor acid gases measured as SO₂ and hydrogen chloride (HCl); municipal solid waste landfills emissions measured as non-methane organic compounds (NMOC); and mercury (Hg). In addition, significant emissions rate also means any emissions rate or any net emissions increase associated with a major stationary source or major modification which would construct within 10 kilometers of a Class I area and have an impact on such area equal to or greater than 1 µg/m³, 24-hour average.

If the potential emission exceeds the defined significant emissions rate of a PSD pollutant, the project is considered "significant" for the pollutant and the applicant must employ the Best Available Control Technology (BACT) to minimize the emissions and evaluate the air quality impacts. Although a facility or project may be *major* with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

PSD Applicability for Project

The facility **is not** a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

**Blanchard Jacksonville Terminal
Potential Emissions Rates - Facilitywide**

Summary of PTE Increases from Project											
Pollutant	Potential Emissions (12-Month Rolling Total)										
	Current Permit Limits (450,000,000*/260,000,000†)					Proposed Permit Limits (600,000,000*/300,000,000†)					Increase
	VRU	Rack-Fugitives	Equipment-Fugitives	Diesel Tanks‡	Total	VRU	Rack-Fugitives	Equipment-Fugitives	Diesel Tanks	Total	
VOC	37.554	24.410	0.551	1.709	62.515	50.072	32.547	0.551	1.804	84.974	22.459
Benzene	0.338	0.220	0.005	0.000	0.563	0.451	0.293	0.005	0.000	0.749	0.186
Ethylbenzene	0.038	0.024	0.001	0.000	0.063	0.050	0.033	0.001	0.000	0.083	0.021
Hexane (-n)	0.601	0.391	0.009	0.000	1.000	0.801	0.521	0.009	0.000	1.331	0.330
Isooctane (2,2,4-trimethylpentane)	0.300	0.195	0.004	0.000	0.500	0.401	0.260	0.004	0.000	0.665	0.165
Isopropyl benzene (cumene)	0.004	0.002	0.000	0.003	0.009	0.005	0.003	0.000	0.003	0.011	0.002
Toluene	0.488	0.317	0.007	0.003	0.816	0.651	0.423	0.007	0.003	1.084	0.269
Xylene (-m)	0.188	0.122	0.003	0.008	0.321	0.250	0.163	0.003	0.008	0.424	0.103
Total HAPs	1.957	1.272	0.029	0.015	3.272	2.609	1.696	0.029	0.015	4.348	1.078

*Permit limits are for gasoline, aviation gasoline, denatured ethanol, gasoline/denatured ethanol/butane blends, and/or gasoline/denatured ethanol blends.

†Permit limits are for kerosene distillate oil.

‡Emissions data obtained from EPA Tanks 4.09d. Emissions increased are negligible.

Source: ECT, 2014.

3. APPLICATION REVIEW

Discussion of Emissions

VOC emissions increased by 22.46 TPY and the Total HAPs by 1.08 TPY.

Rules and Regulations

There are no new State Requirements, Federal NSPS Provisions or Federal NESHAP Provisions that are applicable to this permitting project.

Other Draft Permit Requirements

Compliance with the facility-wide maximum fuel throughput will ensure that the facility remains below the area source HAP limits of < 10 TPY individual and < 25 TPY total HAPs.

4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Leslie Maybin is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection (Department), Northeast District Office, Waste and Air Resource Management Program. The Northeast District Office's mailing address is 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256.