



Department of Environmental Protection

FILE COPY

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Northwest District
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Virginia B. Wetherell
Secretary

Synthetic Minor

PERMITTEE:

CITGO Petroleum Corporation

AIRS I.D.: 0050045

Air Permit Number: 0050045-002-AC

Emission Units: 007, 009, 010-015

Date of Issue: November 18, 1996

Date of Amendment: July 7, 1997

Expiration Date: November 18, 1998

County: Bay

Project: Bulk Gasoline Terminal

RECORDED
JUL 08 1997

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 62-296, 62-297 and 62-4. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Amended after-the-fact construction permit for bulk petroleum terminal consisting of a loading rack with a Vapor Combustion Unit, Gasoline Storage Tanks, Distillate Storage Tanks, Additive Storage Tanks, Process Tanks, a Petroleum Contacted Water (PCW) Handling Facility and Fugitive Emissions. Process and emission limitations will make this a Synthetic Non-Title V Facility, with total Volatile Organic Compounds (VOCs) limited to 69.51 tons per year and Hazardous Air Pollutants (HAPS) limited to 11.41 tons per year. The Vapor Combustion Unit is permitted under AO03-215385, expiring July 1, 1997. Gasoline Storage Tank 7, subject to NSPS regulations, is permitted under AO03-181074, expiring July 1, 1995, extended by Title V permitting requirements. Tank 14 is to be retrofitted with a volume-limiting device in order to be exempt under 40 CFR 60.116b(b) from NSPS control requirements of Subpart Kb as part of this project. Barge loading equipment described in application for the original permit 0050045-001-AC will not be constructed.

The Loading Rack's VOC emissions are controlled by a vapor combustion unit. The Vapor Combustion Unit (VCU) is manufactured by John Zink, model GV-ZTOF-69600-2. The VCU is designed to operate at the rate of 9,600 gallons per minute. VOC emissions from the loading rack are limited to 45.67 tons per year and HAPS are limited to 7.42 tons per year.

There are five Gasoline Storage Tanks, numbers 2, 3, 4, 5 and 7. These tanks are sized at 554,400 gallons, 739,200 gallons, 1,314,600 gallons, 1,314,600 gallons and 2,041,200 gallons respectively for tanks 2, 3, 4, 5 and 7. Tanks 2, 3, 4 and 5 have external floating roofs while tank 7 has an internal floating roof. VOC emissions from these sources are estimated at 14.987 tons per year of which 2.564 tons per year are HAPS.

There are two Distillate Storage Tanks, numbers 1 and 6. These tanks are sized at 739,200 gallons and 554,400 gallons respectively for tanks 1 and 6. Both tanks have external floating roofs. These tanks store No. 2 Fuel Oil. VOC emissions are estimated at 0.082 tons per year and HAPS are estimated at 0.012 tons per year.

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There are four Additive Storage Tanks, numbers 8, 9, 10 and 11. These tanks are sized at 10,575 gallons, 3,000 gallons, 4,000 gallons and 2,000 gallons respectively for tanks 8, 9, 10 and 11. All these tanks have horizontal fixed roofs and are used to store additives. VOC emissions are estimated at 1.822 tons per year and HAPS are estimated at 0.212 tons per year.

Process Tanks P-1 and P-2 are used in daily routine operations and for emergency spill containment. These tanks are sized at 4,000 gallons and 4,900 gallons for tanks P-1 and P-2 respectively. VOC emissions are estimated at 0.97 tons per year and HAPS are estimated at 0.167.

The Petroleum Contacted Water (PCW) Handling Facility consists of Tank 14 and associated piping. Tank 14 is used to store PCW and is presently sized at 42,000 gallons. Tank 14 is to be retrofitted with a volume-limiting device as part of this project. VOC emissions from Tank 14 are estimated at 4.98 tons per year and HAPS are estimated at 0.92 tons per year.

The facility fugitive emissions are from piping and equipment leaks. VOC emissions from these sources are estimated at 1.00 tons per year and HAPS are estimated at 0.172 tons per year.

Located at 122 South Center Avenue, Panama City, Bay County.

SPECIFIC CONDITIONS:

General

1. The attached General Conditions are part of this permit. [FAC Rule 62-4.160]
2. Air Construction Permit 0050045-001-AC is hereby rescinded and replaced by this permit.

Construction

3. The Department shall be notified upon commencement of construction, and within 15 days of completion of construction. Annual status reports shall be provided no later than January 31 of each year reviewing the status of construction during the preceding year up to completion of the project. [FAC Rule 62-4.070]
4. The Department shall be notified and prior approval shall be obtained of any changes or revisions made during construction. [FAC Rule 62-4.030]
5. Satisfactory ladders, platforms and other safety devices as well as necessary parts shall be provided/made available to facilitate an adequate inspection program. [FAC Rule 62-297.310(6)]

Operation

6. The maximum hours of operation are 8760 hours/year. [Construction permit application received June 17, 1996 and FAC Rule 62-4.070(3)]

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7. The maximum allowable operating rate of the loading rack is 88,000 gallons per hour. This is the operating rate at which compliance with standards shall be demonstrated, using gasoline as the product. The loading rack maximum allowable annual throughput is:

Gasoline	208.218 million gallons
Distillate	36.286 million gallons
Additives	20.822 million gallons

[FAC Rule 62-4.070 and construction permit application received June 17, 1996]

8. All tanks, vats, containers, etc., that are used for temporary and permanent storage of VOC/organic solvents shall be covered to prevent vaporization of VOC when not in use. All equipment, pipes, hoses, lids, fittings, etc., shall be operated/maintained in such a manner as to minimize leaks, fugitive, emissions, and spills of VOC materials. [FAC Rule 62-296.320(1)(a)]

9. All applicable requirements of Title 40, Code of Federal Regulations, Part 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals (40 CFR 60), shall be met. [FAC Rule 62-204.800(7)] Specifically this shall include:

A. Paragraph 60.502 for allowed emissions, loadings limited to vapor-tight tank truck, truck vapor-tight documentaion, compliance verification, notification of non-compliance, proper hookup, maximum pressure during loading, leak detection and repair records.

B. Paragraph 60.503 for installation and calibration of a pressure measuring device.

C. Paragraph 60.505 for record keeping of truck vapor-tightness, leak inspections, leak repairs and notification of non-vapor-tight truck owners.

The compliance testing requirements of paragraph 60.503(c) may be waived if post-construction VOC testing shows the system capable of compliance with standards.

Emissions

10. The manner, nature, volume and frequency of permitted emissions, applicable emissions limiting standards (if any) and allowable emissions are listed as per FAC Rule 62-210.300(2)(a):

Airborne Contaminant Emitted	FAC Rule	Allowable Quantity Emitted
VOC	62-204.800(7)(b)	35 mg VOC vapors per liter of VOC liquid transferred
Objectionable Odors	62-296.320(2)	None allowed off plant property
VE	62-204.800(7)(b)	Not more than 5% opacity.

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11. VOC and HAPs emissions shall be controlled by limiting the maximum throughput of petroleum liquids through the facility as noted in specific condition 3 above. Maximum allowable VOC emissions are 68.47 tons per year and HAPs emissions are 11.22 tons per year. Individual source identification numbers, service, and control equipment are as follows:

Source	I.D. Number	Service	Size(GAL)	Control Equipment
Tank 7	0050045007	Gasoline	2,041,200	Int. Floating Roof
Loading Rack	0050045009	-----	-----	VCU
Tank 2	0050045010	Gasoline	554,400	Ext. Floating Roof
Tank 3	0050045010	Gasoline	739,200	Ext. Floating Roof
Tank 4	0050045010	Gasoline	1,314,600	Ext. Floating Roof
Tank 5	0050045010	Gasoline	1,314,600	Ext. Floating Roof
Tank 1	0050045011	Distillate	739,200	Ext. Floating Roof
Tank 6	0050045011	Distillate	554,400	Ext. Floating Roof
Tank 8	0050045012	Additives	10,575	Horiz. Fixed Roof
Tank 9	0050045012	Additives	3,000	Horiz. Fixed Roof
Tank 10	0050045012	Additives	4,000	Horiz. Fixed Roof
Tank 11	0050045012	Additives	2,000	Horiz. Fixed Roof
Tank 14	0050045013	PCW	(see note)	Internal Floating Roof
P-1	0050045014	Process	4,000	Horiz. Fixed Roof
P-2	0050045014	Process	4,900	Horiz. Fixed Roof
Fugitives	0050045015	Piping/Equipment	-----	Leaks

(Note: Tank 14 working volume to be limited to less than 19,819 gals by new volume-limiting device)

Service may be changed to lesser volatile products without prior notification to the Department; however, service changes to more volatile products require the Department's prior approval. [FAC Rule 62-4.070]

12. This source shall be operated in such a fashion so as to preclude objectionable odors. No objectionable odors shall be allowed off plant property. If the Department determines the facility is emitting objectionable odors, the Permittee shall submit an odor remediation plan within 45 days of receipt of written notification from the Department. The plan shall include, but not be limited to, dispersion modeling analysis, strategies to reduce odorous chemicals utilization, and modifications of manufacturing production cycles, manufacturing methods and/or plant exhaust systems. [FAC Rule 62-296.320(2)]

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Testing

13. Emissions tests are required to show continuing compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. Volatile Organic Compounds (VOCs) tests shall be conducted on the Vapor Combustion Unit in accordance with EPA method 25A. Such tests shall be conducted within 60 days before May 31, 2001. Annual VOC leak tests shall be conducted on the Vapor Collection System in accordance with EPA Method 21 and annual Visible Emissions Tests shall be conducted on the Vapor Combustion Unit in accordance with EPA Method 22. Results shall be submitted to the Department within 45 days after testing. The Department shall be notified at least 15 days prior to testing to allow witnessing.

Test reports shall comply with F.A.C. Rule 62-297.310(8), Test Reports. The Department can require special compliance tests in accordance with F.A.C. Rule 62-297.310(7). Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing.

Testing of emissions shall be conducted for a 6-hour period during which at least 300,000 liters (79,260 gallons) of gasoline is loaded or the test may be resumed on the next day with another complete 6-hour period in which the highest throughput normally occurs. [FAC Rule 62-296.340]

Administrative

14. The Permittee shall maintain records for all stored materials which show the annual throughput and emissions for the facility, individual tanks, and the loading rack. [FAC Rule 62-4.070]

15. An annual operating report for air pollutant emitting facility, DEP Form 62-210.990(5), shall be submitted by March 1st of each year. A copy of the form and instructions may be obtained from the Department of Environmental Protection, Northwest District, Air Resources Management Program, (904) 444-8364. [FAC Rule 62-210.370]

16. The applicant shall retain a Professional Engineer, registered in the State of Florida, for the inspection of this project. Upon completion the engineer shall inspect for conformity to the permit application and associated documents and submit DEP Form 62.210.900(1) for major sources and 62-210.900(2) for minor sources. The application, compliance test report and appropriate fee when required are to be submitted before the expiration of this construction permit and within 75 days after completion of construction if the permittee desires to continue operation. [FAC Rule 62-4.050 and 62-210.300]

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17. The permanent source identification numbers for these point sources are as follows:

0050045007	Tank No. 7
0050045009	Loading Rack
0050045010	Gasoline Tanks 2, 3, 4, 5
0050045011	Distillate Tanks 1 and 6
0050045012	Additive Tanks 8, 9, 10, 11
0050045013	Tank 14 - PCW Handling
0050045014	Process Tanks P-1, P-2
0050045015	Fugitive Emissions

Please cite these numbers on all test reports and other correspondence specific to these permitted point sources. [FAC Rule 62-297.570]

18. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 444-8364, day or night, and for emergencies involving a significant threat to human health or the environment is (850) 488-1320. For routine business, use telephone number (850) 872-4375 during normal working hours. [FAC Rule 62-210.700]

19. To meet the exemption requirements under 40 CFR 60 Subpart Kb, permittee shall submit, along with the operating permit application required by Specific Condition No. (12) drawings and calculations signed and sealed by a Professional Engineer registered in the State of Florida, showing that Tank 14 is retrofitted with a volume-limiting device that permanently limits storage capacity to less than 75 M³ (19,819 gallons). A copy of the calculations shall be kept on-site and made available for Department inspection. [FAC 62-204.800(7), 40 CFR 60.116b(b), construction permit application modification request - letters of March 23, 1997 and May 4, 1997]

Expiration Date:

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Issued this 7th day of JUL, 1997.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Ed K. Middlewart
ED K. MIDDLESWART, P.E.
Air Program Administrator