

217/782-2113

CONSTRUCTION PERMIT -- REVISED
NESHAP SOURCE -- NSPS SOURCE

PERMITTEE

CITGO Petroleum Corporation
Attn: C. W. Harmon - Manager, HSS&E
135th Street and New Avenue
Lemont, Illinois 60439-3659

Application No.: 07090059

I.D. No.: 197090AAI

Applicant's Designation:

Date Received: October 14, 2011

Subject: Ultra Low Sulfur Diesel Project

Date Issued: November 9, 2011

Location: 135th Street and New Avenue, Lemont

This Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of an ultra low sulfur diesel project, that is, various changes to the refinery to produce lower sulfur diesel, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1.1 Unit: Ultra Low Sulfur Diesel (ULSD) Project

1.1.1 Description

Federal environmental regulations require that by June 2010, diesel fuel sold for use by motor vehicles meet more stringent specifications for sulfur content. The ultra low sulfur diesel (ULSD) project will enable the refinery to produce low sulfur diesel fuel that meets these federal regulations. Diesel is made from a number of distinct blend stocks or streams produced at the refinery. This project enables the refinery to remove more sulfur from these streams, to the level needed to produce ultra low sulfur diesel, by installing a new hydrotreater unit (Unit 590) and by altering several existing units at the refinery.

Unit 590, the new hydrotreater, will be a closed, continuous operation that improves the quality of high sulfur diesel feedstock by removing sulfur. In the hydrotreater, a catalyst is used to react the sulfur in the feedstock with hydrogen, to form hydrogen sulfide, which is concentrated by an amine treatment system and then sent to the sulfur plant. Unit 590 will require two new heaters (590H-1 and 590H-2), which will be sources of emissions.

The amine treatment systems at the refinery will be converted from monoethanolamine to methyl-diethanolamine, with installation of several new vessels. One of the units in the Sulfur Recovery Plant, Sulfur Recovery Unit 121 (C and D Trains), will be modified so the plant is capable of handling additional sulfur feed that would come from Unit 590.

The hydrogen needed by Unit 590 will come from a new hydrogen plant built and operated by a separate company that specializes in hydrogen production. Although the emissions from this hydrogen plant are included in the emission summary of this permit, a separate permit must be obtained by the developer of that plant. The hydrogen plant project and the ULSD project are considered to be a larger, single project for purposes of New Source Review regulations.

1.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Unit 590	New Diesel Distillate Hydrotreater: hydrotreater with two process heaters.	None
South Plant Cooling Tower	Existing South Plant Cooling Tower: additional cooling water required for Unit 590.	Upgraded Drift Eliminators
Unit 115	Existing Light Distillate Hydrotreater: larger reactor capable of producing ultra low sulfur light distillate product; two existing heaters (115B-1 and 115B-2) will experience additional firing.	None
Unit 125	Existing Diesel Distillate Hydrotreater: additional ancillary equipment to be installed to improve quality of feed to Unit 590.	None
Unit 119	Existing Amine regeneration system* and existing Sulfur Recovery Unit (A & B Trains): additional loading due to incremental sulfur removed in Unit 590.	Tail Gas Unit; Oxidizer
Unit 121	Modified Sulfur Recovery Unit (C & D Trains): additional loading due to incremental sulfur removed in Unit 590.	Tail Gas Unit; Oxidizer

Emission Unit	Description	Emission Control Equipment
Refinery Flare System	Existing Refinery Flare System: additional tie ins for Unit 590, upstream of the existing gas recovery system, are necessary for emergency relief, startups, and shutdowns.	None
Components	New Fugitive Components (valves, flanges, etc).	Leak Detection and Repair (LDAR) Program

* Amine regeneration system converted to methyldiethanolamine.

1.1.3 Applicable Provisions and Regulations

- a. The "affected heaters" for the purpose of these unit-specific conditions are fuel gas combustion devices 590H-1 and 590H-2, as described in Conditions 1.1.1 and 1.1.2.
 - i. A. The affected heaters are subject to New Source Performance Standards (NSPS) for Petroleum Refineries, 40 CFR 60 Subpart Ja, and requirements of the General Provisions of the NSPS, 40 CFR 60, Subpart A. The Illinois EPA administers the NSPS for subject sources in Illinois pursuant to a delegation agreement with the USEPA.
 - B. 1. The affected heaters are subject to 40 CFR 60.102a(g)(1)(ii), which provides that the owner or operator shall not burn in any subject fuel gas combustion device any fuel gas that contains H₂S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis and H₂S in excess of 60 ppmv determined daily on a 365 successive calendar day rolling average basis.
 2. The affected heaters are subject to 40 CFR 60.102a(g)(2), which provides that the owner or operator shall not discharge to the atmosphere from any subject fuel gas combustion device any emissions of NO_x in excess of 40 ppmv (dry basis, corrected to 0 percent excess air) on a 24-hour rolling average basis.
 - ii. A. The Permittee shall not cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into

the atmosphere from the affected heaters except as provided below [35 IAC 212.123(a)].

- B. The emission of smoke or other particulate matter from the affected heaters may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 meter (1,000 foot) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period [35 IAC 212.123(b)].
- iii. The Permittee shall not cause or allow the emission of carbon monoxide (CO) into the atmosphere from each affected heater to exceed 200 ppm, corrected to 50 percent excess air [35 IAC 216.121].
- b. The "affected components" for the purpose of these unit-specific conditions are the new components described in Conditions 1.1.1 and 1.1.2.
 - i. The affected components associated with the ULSD project are subject to National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries, 40 CFR 63, Subpart CC and requirements of the General Provisions of the NESHAP, 40 CFR 63, Subpart A. The Illinois EPA administers the NESHAP for subject sources in Illinois pursuant to a delegation agreement with the USEPA. The Permittee shall comply with all applicable requirements of 40 CFR 63, Subparts A and CC.

Note: The Permittee has indicated that it generally complies with the equipment leak requirements specified in 40 CFR 63, Subpart CC by complying with the Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry 40 CFR 60, Subpart VV.

- ii. The affected components in the new Unit 590 associated with the ULSD project are subject to the NSPS, 40 CFR 60, Subpart GGGa - Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After November 7, 2006, and requirements of the General Provisions of the NSPS,

40 CFR 60, Subpart A. The Illinois EPA administers the NSPS for subject sources in Illinois pursuant to a delegation agreement with the USEPA.

Note: Because the affected components are also subject to 40 CFR 63 Subpart CC, the Permittee is required to comply only with the provisions specified in Subpart CC (See also 40 CFR 63.640(p)).

- iii. This permit is issued based on the affected components associated with the ULSD project being subject to 35 IAC Part 218 Subpart R: Petroleum Refining and Related Industries; Asphalt Materials.

Note: When the requirements for equipment leaks under 40 CFR Part 63 Subpart CC are more stringent than the LDAR requirements in 35 IAC 218.445-452, compliance with 40 CFR Part 63 Subpart CC shall be deemed compliance with 35 IAC 218.445-452.

- c.
 - i. Existing affected units shall continue to comply with applicable regulations as set forth in the source's CAAPP permit (Permit No. 96030079).
 - ii. In addition, the existing sulfur recovery plant, which is the set of sulfur recovery unit trains in Units 119 and 121, as described in Conditions 1.1.1 and 1.1.2, is subject to NSPS for Petroleum Refineries, 40 CFR 60 Subpart Ja, and requirements of the General Provisions of the NSPS, 40 CFR 60, Subpart A.
 - A. The sulfur recovery plant is subject to 40 CFR 60.102a(f)(1)(i), which provides that the owner or operator of a subject sulfur recovery plant shall not discharge or cause the discharge of any gases into the atmosphere in excess of 250 ppm by volume (dry basis) of sulfur dioxide (SO₂) at zero percent excess air. If the sulfur recovery plant consists of multiple process trains or release points the owner or operator shall comply with the 250 ppmv limit for each process train or release point or comply with a flow rate weighted average of 250 ppmv for all release points from the sulfur recovery plant.
 - B. Periods of maintenance of the sulfur pit, during which the emission limits in 40 CFR 60.102a(f)(1) shall not apply, shall not exceed 240 hours per year. The owner or operator must document the time periods during which the sulfur pit vents were not controlled and

measures taken to minimize emissions during these periods. [40 CFR 60.102a(f)(3)]

1.1.4 Non-Applicability of Regulations of Concern

- a. The Permittee has addressed the applicability of 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM) to this project. The limits in this permit are intended to ensure that this project does not constitute a major modification pursuant to these rules, as further explained in Attachments 1 and 2.

For this purpose, the source also addressed the potential emissions of the new hydrogen plant that will be developed by an independent company to supply additional hydrogen to the refinery (Hydrogen Plant). The maximum annual emissions of the hydrogen plant, as accounted for in this permit are 66.6 tons of NO_x, 3.0 tons of SO₂, 20.7 tons of CO, 12.03 tons of PM/PM₁₀, and 18.0 tons of VOM. Hydrogen plants are routinely developed at refineries with the owner and operator of the hydrogen plant responsible for obtaining necessary air pollution control permits.

- b. i. This permit is issued based on the affected heaters not being subject to emission standards or other requirements pursuant to the NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD. This is because this NESHAP has been vacated by a court mandate, pursuant to a request by USEPA, and is no longer in effect.

Note: "Large gaseous fuel units," under this NESHAP would have been limited to CO emissions of no more than 400 ppm, dry basis at 3 percent oxygen, 30-day rolling average, excluding periods of startup, shutdown, malfunction, and low-load operation, which is less stringent than the standard set by 35 IAC 216.121 (See Condition 1.1.3(a)(iv)).

- ii. This permit is issued based on each affected heater not being a major source of HAPs for purposes of Section 112(g) of the Clean Air Act so that a case-by-case determination of Maximum Achievable Control Technology (MACT) is not required for the affected unit pursuant to Section 112(g). This is because each affected heater is being constructed at a developed site and the potential annual emissions of HAPs from each affected heaters are less than 10 tons of any individual HAP and less than 25 tons of any combination of HAPs.

- iii. The affected heaters and the Permittee shall comply in a timely manner with all applicable provisions of a NESHAP adopted by USEPA or a case-by-case MACT determination made by the Illinois EPA that applies to the affected heaters. For this purpose, the Permittee shall address the affected heaters in an application submitted to the Illinois EPA pursuant to Section 112(j) of the Clean Air Act to support a case-by-case determination of MACT for the heaters at the source.

1.1.5 Control Requirements and Work Practices

- a. i. The affected heaters shall be equipped, operated, and maintained with ultra low NO_x burners. These burners shall be operated and maintained in conformance with good air pollution control practices.
- ii. Only gaseous fuels shall be burned in the heaters.
- b. The design drift loss from the drift eliminators on the cooling tower shall not exceed 0.002 percent (12-month rolling average).

1.1.6 Production and Emission Limitations

- a. i. The firing rates of the heaters shall not exceed the following:

Heaters	Firing Rate mmBtu/hour*
590H-1 and 590H-2, combined	129.6
115B-1 and 115B-2, combined	46.6

* Limits are based on a 12-month rolling average

- ii. A. The heaters shall not exceed the following short term emission limits:

Heater	Emissions (Lbs/mmBtu)			
	NO _x	CO	VOM	PM/PM ₁₀
590H-1	0.04	0.0824	0.0027	0.0075
590H-2	0.04	0.0824	0.0027	0.0075
115B-1	0.0980	0.0824	0.0054	0.0075
115B-2	0.0980	0.0824	0.0054	0.0075

- B. 1. The fuel gas H₂S concentration for heaters 590H-1 and 590H-2 shall each not exceed 162 ppm_v on a rolling 3-hr average basis.
- 2. The fuel gas H₂S concentration for heaters 115B-1 and 115B-2 shall each not exceed

161.5 ppm_v on a rolling 3-hr average basis.

- iii. The heaters shall not exceed the following annual emission limits:

Heater	Emissions (Tons/Year)				
	NO _x	CO	SO ₂	VOM	PM/PM ₁₀
590H-1	6.15	25.39	3.50	0.80	2.30
590H-2	5.20	21.35	2.95	0.70	1.90
115B-1	9.20	7.72	2.56	0.50	0.70
115B-2	10.80	9.09	3.01	0.60	0.80

- b. Emissions of VOM from the affected components (i.e., valves, pumps, flanges, etc.) associated with the ULSD Project, excluding components located within the proposed hydrogen plant battery, shall not exceed 6.03 tons per year. Compliance with this limit shall be determined using published USEPA methodology for determining VOM emissions from leaking components.

- c. i. The maximum rated capacity of the South Plant Cooling Tower shall not exceed 60,380 gallons/minute.

- ii. Emissions and operation of the South Plant Cooling Tower shall not exceed the following limits:

Pollutant	Emissions	
	Tons/Month	Tons/Year
VOM	1.2	11.11
PM	0.7	4.58
PM ₁₀	0.6	3.76

- d. i. A. The maximum production rate of Unit 121 (Trains C and D combined) shall not exceed 380 Long Tons/Day, on a monthly average basis.

- B. The maximum production rate of the Sulfur Recovery Plant shall not exceed 520 Long Tons/Day, on a monthly average basis.

- ii. A. Emissions from Unit 121 (Trains C and D combined) shall not exceed the following limits:

Pollutant	Limits	
	Tons/Month	Tons/Year
NO _x	3.4	33.44
CO	15.8	157.34
SO ₂	15.2	151.12
VOM	1.9	18.42
PM/PM ₁₀	0.2	2.08

- B. Emissions from the Sulfur Recovery Plant shall not exceed the following limits:

Pollutant	Limits	
	Tons/Month	Tons/Year
NO _x	3.6	34.76
CO	19.0	189.24
SO ₂	24.4	242.32
VOM	2.0	18.89
PM/PM ₁₀	0.2	2.18

- e. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

1.1.7 Testing Requirements

- a. Hydrogen Sulfide Testing.

In accordance with 40 CFR 60.8, within 60 days after achieving the maximum production rate at which the affected heaters will be operated, but not later than 180 days after initial startup of the affected heaters and at such other times as may be required by the Illinois EPA, the Permittee shall conduct performance test(s) in accordance with 40 CFR 60.104a(j) and furnish the Illinois EPA a written report of the results of such performance test(s).

Note: If monitoring is conducted at a single point in a common source of fuel gas as allowed under 40 CFR 60.107a(a)(2)(iv), only one performance test is required. That is, performance tests are not required when a new subject fuel gas combustion device is added to a common source of fuel gas that previously demonstrated compliance. [40 CFR 60.104a(j)(4)(iv)]

- b. Nitrogen Oxides Testing.

- i. In accordance with 40 CFR 60.8, within 60 days after achieving the maximum production rate at which the affected heaters will be operated, but not later than 180 days after initial startup of the affected heaters and at such other times as may be required by the Illinois EPA, the Permittee shall conduct performance test(s) in accordance with 40 CFR 60.104a(i) and furnish the Illinois EPA a written report of the results of such performance test(s).

- ii. Pursuant to 40 CFR 60.107a(c)(6), these performance tests shall be conducted biennially to demonstrate compliance.
- c. Sampling and Analysis for South Plant Cooling Tower.

The Permittee shall sample and analyze the water being circulated in the cooling tower on at least a monthly basis for the total dissolved solids content. Measurements of the total dissolved solids content in the wastewater discharge associated with the cooling tower, as required by a National Pollution Discharge Elimination System permit, may be used to satisfy this requirement if the effluent has not been diluted or otherwise treated in a manner that would significantly reduce its total dissolved solids content.

1.1.8 Monitoring Requirements

- a. The affected heaters are subject to 40 CFR 60.107a(a)(2), which provides that the owner or operator shall install, operate, calibrate, and maintain an instrument for continuously monitoring and recording the concentration by volume (dry basis) of H₂S in the fuel gases before being burned in any subject fuel gas combustion device.
 - i. The Permittee shall install, operate, and maintain each H₂S monitor according to Performance Specification 7 of appendix B to part 60. The span value for this instrument is 320 ppmv H₂S.
 - ii. The Permittee shall conduct performance evaluations for each H₂S monitor according to the requirements of 40 CFR 60.13(c) and Performance Specification 7 of appendix B to part 60. The owner or operator shall use Method 11, 15, or 15A of appendix A-5 to part 60 or Method 16 of appendix A-6 to part 60 for conducting the relative accuracy evaluations. The method ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses," (incorporated by reference—see 40 CFR 60.17) is an acceptable alternative to EPA Method 15A of appendix A-5 to part 60.
 - iii. The Permittee shall comply with the applicable quality assurance procedures in appendix F to part 60 for each H₂S monitor.
 - iv. Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned.

- b. The Permittee shall comply with the applicable monitoring requirements of 40 CFR 60.106a for the Sulfur Recovery Plant.
- c. Pursuant to 40 CFR 60.13(i), after receipt and consideration of written application, the USEPA may approve alternatives to the monitoring otherwise required by the NSPS, including the above.

1.1.9 Recordkeeping Requirements

- a. The Permittee shall maintain records of the following items for heaters 590H-1, 590H-2, 115B-1, and 115B-2):
 - i. Firing rate of each heater (mmBtu/hour on a 12-month rolling average).
 - ii. Amount of fuel burned in each heater (mmBtu/month and mmBtu/year).
 - iii. Heat content of the fuel gas (Btu/scf).
 - iv. Concentration (dry basis) of H₂S in fuel gases before being burned in each heater.
 - v. NO_x, CO, VOM, SO₂, PM and PM₁₀ emissions of each heater (tons/month and tons/year).
- b. The Permittee shall maintain records of the following items for fugitive emissions from components in the ULSD Project:
 - i. Number of new components by unit or location and type.
 - ii. Calculated VOM emissions including supporting calculations, attributable to these components (tons/year).
- c. The Permittee shall maintain records of the following items for the South Plant Cooling Tower:
 - i. The Permittee shall maintain a file containing the maximum design circulation for the south plant cooling tower with supporting documentation.
 - ii. A log containing records of the sampling and analysis for South Plant Cooling Tower as required by Condition 1.1.7.
 - iii. Emissions of VOM and PM/PM₁₀ with supporting calculations (tons/month and tons/year).

- d. The Permittee shall maintain records of the following items for the Sulfur Plant:
 - i. Production rate for Unit 121 (Long Tons/Day).
 - ii. Production rate for the Sulfur Recovery Plant, i.e., Units 119 and 121 combined, (Long Tons/Day).
 - iii. NO_x, CO, VOM, SO₂, PM and PM₁₀ emissions from Unit 121 (tons/month and tons/year).
 - iv. NO_x, CO, VOM, SO₂, PM and PM₁₀ emissions from the Sulfur Recovery Plant (tons/month and tons/year).
- e. The requirements in Conditions 1.1.9 and 1.1.10 become effective when the Permittee begins operation of units in the ULSD Project to produce ultra low sulfur diesel for commercial sale.

1.1.10 Reporting Requirements

- a. The Permittee shall notify the Illinois EPA of any deviations with the permit requirements as follows. Reports shall be submitted as specified below or in a revision to the source's CAAPP that address the affected units. Reports shall describe the deviation, the probable cause of such deviation, the corrective actions taken, and any preventive measures taken.
 - i. Reports addressing the affected heaters shall be submitted in conformance with the requirements, content and schedule contained in 40 CFR 60.7.
 - ii. As the operation of affected components is addressed by reporting requirements under applicable rules, reports shall be submitted with the periodic reports required by such regulations.
 - b. The Permittee shall notify the Illinois EPA within 30 days of producing ultra low sulfur diesel for commercial sale, pursuant to this permit.
- 2a. This permit authorizes installation of ancillary equipment associated with the Unit 119 amine regeneration system, consisting of a MDEA condensate surge vessel and a waste MDEA surge vessel.
- b. This permit is issued based upon negligible emissions of VOM from the new surge vessels. For this purpose, emissions of VOM from both surge vessels combined shall not exceed a nominal emission rate of 0.01 tons/year.

Note: These vessels may be considered insignificant activities for purposes of the Clean Air Act Permit Program.

3. The emission units addressed by this construction permit may be operated under this permit until renewal of the CAAPP permit or a modification of the CAAPP permit to incorporate this project.

It should be noted that this permit has been revised at the request of the Permittee to include applicable requirements of 40 CFR 60 Subpart Ja and the Consent Decree between CITGO, USEPA, and Illinois EPA (Civil Action Number H-04-3883 entered January 26, 2005 in the Southern District of Texas).

If you have any questions on this permit, please contact Jason Schnepf at 217/782-2113.

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

Date Signed: _____

ECB:JMS:psj

cc: Region 1
Lotus Notes
CES

Attachment 1: Project Emission Changes Summary (Tons/Year)

Updated November 9, 2011

Operation	NO _x (NA NSR)	NO _x (PSD)	CO	SO ₂	VOM	PM	PM ₁₀
ULSD Project (Refinery)							
590H-1	6.15	6.15	25.39	3.50	0.80	2.30	2.30
590H-2	5.20	5.20	21.35	2.95	0.70	1.90	1.90
115B-1	5.16	5.16	4.22	1.94	0.28	0.28	0.39
115B-2	6.45	6.45	5.98	2.12	0.39	0.21	0.51
Unit 119, Trains A & B	-20.57	-20.57	-621.29	0	-6.77	-0.88	-1.21
Unit 121, Trains C & D	12.18	12.18	57.59	146.57	6.23	0.91	0.71
South Plant Cooling Tower	----	----	----	----	1.90	-9.73	-4.56
Components	----	----	----	----	6.03	----	----
Amine Treatment	---	---	---	---	0.21	---	---
SUBTOTAL ¹ :	35.14	35.14	114.53	157.08	16.54	5.60	5.81
Hydrogen Plant	66.60	66.60	20.70	3.00	18.00	12.03	12.03
SUBTOTAL ¹ :	101.74	101.74	135.23	160.08	34.54	17.63	17.84
Significance Threshold:	40	40	100	40	40	25	15
Greater Than Significant?	Yes	Yes	Yes	Yes	No	No	Yes

Notes:

--- No increase in emissions.

¹ Subtotal includes only units with emission increases (decreases are not included).

Attachment 2: Netting Analysis (Tons/Year)

Updated November 9, 2011

	Date	NO _x (NA NSR)	NO _x (PSD)	CO	SO ₂	PM ₁₀
Project Emissions ¹		81.17	81.17	-486.06	160.08	12.07
Contemporaneous ² Increases						
Low Sulfur Gas. (01030085) ³	11/2003	70.42	70.42	74.31	----	8.09
Coker Deheading (05020061)	3/2006	13.20	13.20	19.29	17.44	2.33
U125 Mod. (04090068)	8/2007	22.90	22.90	17.07	20.27	1.55
Package Boilers (06080027)	9/2006	34.62	34.62	51.94	0.20	2.58
2002 Turnaround (01070060)	11/2002	----	----	----	----	----
Contemporaneous ² Decreases						
2002 Turnaround (01070060)	11/2002	-379.86	----	----	----	----
Aux Boiler LNB (05050037)	5/2006	-300.00 ⁴	-300.00 ⁴	0 ⁵	-300.00 ⁴	-20.00 ⁴
U119 TGU (07030063)	12/2008					
FCCU Controls (05070033)	11/2007					
Low Sulfur Gas. (01030085) ³	11/2003	----	----	----	-365.48	----
NET EMISSIONS CHANGE		-457.55	-77.69	-323.45	-467.49	6.62
Significance Threshold:		40	40	100	40	15
Greater Than Significant?		No	No	No	No	No

Notes:

- ¹ Includes decreases associated with the project.
- ² The contemporaneous time period for PSD pollutants is March 2003 through March 2010. The contemporaneous time period for NA NSR pollutants is September 2002 through March 2010.
- ³ Includes Hydrogen Plant for Low Sulfur Gasoline Project (Construction Permit 01070058).
- ⁴ Emission decreases are enforceable pursuant to the Consent Decree between CITGO, USEPA, and Illinois EPA (Civil Action Number H-04-3883 entered January 26, 2005 in the Southern District of Texas). Up to 300 tons of NO_x emission reductions, up to 300 tons of SO₂ emission reductions, and up to 20 tons of PM emission reductions are allowed for Consent Decree Emission Reductions pursuant to Paragraph 137 of the Consent Decree.
- ⁵ Use of CO emission reductions generated by Consent Decree required controls are prohibited, pursuant to Paragraph 136 of the Consent Decree between CITGO, USEPA, and Illinois EPA (Civil Action Number H-04-3883 entered January 26, 2005 in the Southern District of Texas).