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PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No. 7009 2820 0001 8250 0459

Agency Interest No. 168018
Activity No.: PER20090001

Mr. George Stutzmann
Diamond Green Diesel LLC
Post Office Box 696000
San Antonio, Texas 78269

RE: Part 70 operating permit, Green Diesel Plant, Diamond Green Diesel LLC, Norco, St. Charles Parish, Louisiana

Dear Mr. Stutzmann:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 operating permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 01 of March, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this 01 day of March, 2010.

Permit No.: 2520-00158-V0

Sincerely,

A handwritten signature in black ink, appearing to read "Cheryl".

Cheryl Sonnier Nolan
Assistant Secretary

CSN/DCN

cc: EPA Region 6

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**GREEN DIESEL PLANT
AGENCY INTEREST NO. 168018
DIAMOND GREEN DIESEL LLC
NORCO, ST. CHARLES PARISH, LOUISIANA**

I. Background

Diamond Green Diesel LLC proposes to construct and operate the Green Diesel Plant to convert waste grease, animal fats, used cooking oils, and other plant and vegetable oils to green diesel, light ends gas, and liquid petroleum gas (LPG)/naphtha. The project is a partnership between Valero Energy Corporation and Darling International, Inc.. The proposed plant will have a maximum capacity 10,920 barrels of diesel per day and be located at the Valero St. Charles Refinery, Norco, St. Charles Parish.

II. Origin

A permit application dated November 20, 2009, was submitted requesting a Part 70 operating permit.

III. Description

Raw materials, including waste grease, animal fats, used cooking oils, and other plant and vegetable oils will be received by rail, stored in tanks, and then pretreated using the Desmet pretreatment process, which will include de-gumming, washing, and bleaching to remove contaminants, primarily phosphorous and other elements, that could foul the hydrotreating and isomerization catalysts. During the pretreatment process, the raw materials will be blended, centrifuged to separate solids and hydrated phospholipids, and treated with acid and caustic. Additional impurities will be removed with clay adsorption. The pretreated oil will be recovered by filtration.

The pretreated oil will be converted to a biomass-based diesel product, light ends gas, and LPG/naphtha using the Ecofining™ Process, an advanced hydroprocessing-isomerization process licensed by UOP, LLC. The process will include two shared stack heaters, a cooling tower, and a flare for startup/shutdown events, emergencies, or upsets.

The product streams will be transferred to the Valero's St. Charles Refinery (VSCR) directly via pipeline. To support the Green Diesel Plant operations, VSCR will provide hydrogen, water, nitrogen, steam, amine, and recovery/treatment for sour water, amine, hydrogen purge gas, and wastewater. Estimated emissions in tons per year are as follows:

Pollutant	Proposed Emissions	Project Related Increases	PSD De minimis	Netting Analysis Required
PM/PM ₁₀	1.63	5.18	25/15	No
SO ₂	0.24	13.76	40	No
NO _x	4.68	13.76	40	No
CO	11.18	50.29	100	No
VOC	20.79	28.62	40	No

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Pollutant	Proposed Emissions	Project Related Increases	PSD De minimis	Netting Analysis Required
LAC 33:III Chapter 51 Regulated Toxic Air Pollutants				
n-Hexane	< 0.01			
Ammonia	< 0.01			
Hydrogen Sulfide	0.04			

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NESHAP, and NSPS. The plant is considered a part of a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

Emissions from the proposed Green Diesel Plant will be less than the PSD significance levels. The Green Diesel Plant will also cause emissions from other equipment at the VSCR to increase. The actual to projected actual applicability test indicates that all the criteria pollutant increases will be below the significance levels. Emissions of CO and VOC will increase more than 50 percent of their significance levels, then there is a reasonable possibility that the project will result in a significant emissions increase. Pre-project and post-project monitoring, record keeping, and reporting are required.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on January 11, 2010; and in *The Saint Charles Herald Guide*, Boutte, on January 14, 2010; and was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List. The permit application, the proposed permit, and the Statement of Basis were submitted to the Saint Charles Parish Library – Norco Branch and East Regional Branch. The proposed permit and the Statement of Basis were

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submitted to US EPA Region 6. No comments from the public and EPA were received during the comment period. Comments from the applicant were received and evaluated.

VII. Effects on Ambient Air

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

VIII. General Condition XVII Activities

ID No.	Description	Emissions (tons/yr)
	(None)	

IX. Insignificant Activities (LAC 33:III.501.B.5)

ID No.	Description	Capacity (gallons)	Citation
IA01	Acid Dosing Tank	< 10,000	A.3
IA02	Caustic Dosing Tank	< 10,000	A.3
IA03	Soap Stock Tank	< 10,000	A.3
IA04	Degummed Oil Surge Tank	< 10,000	A.3
IA05	Hydration Tank	< 10,000	A.3
IA06	Seal Tank	< 10,000	A.3
IA07	Spent Clay Conveyor		B.3
IA08	Centrifuge Cleaning Table		B.3
IA09	Spent Cake/Gums Rolloff		B.3
IA10	Maintenance of Grounds/Buildings		B.1
IA11	Surface Coating Operations		B.2
IA12	Miscellaneous Maintenance and Construction		B.3
IA13	Mobile Source Exhaust/ Refueling Emissions		B.4
IA14	Water Treating Chemicals		B.8
IA15	Caustic Storage		B.40
IA16	Portable Diesel Tanks		B.44

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**GREEN DIESEL PLANT
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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.								LAC 33:III.Chapter									
		509	2103	2107	2111	2113	2115	2121	2153	5 [▲]	9	11	13	15	29	51*	52	56	59
EQT0001	BE/FA-DC – Receiver Dust Collector Vent											1							
EQT0002	BE-UNLD – Bleached Earth Unloading											1							
EQT0003	FA-UNLD – Filter Aid Unloading											1							
EQT0004	GDP CT – GDP Cooling Tower																		
EQT0005	GDP FL – GDP Flare							1				1	1			1			
EQT0006	GDP HTRS – GDP Heaters											1	1						
EQT0007	GDP WWT – Wastewater Pretreatment																		
EQT0008	TK-CA – Citric Acid Tank		3																
EQT0011	T-101 – Feed Tank No. 1		3																
EQT0012	T-102 – Feed Tank No. 2		3																
EQT0013	T-103 – Feed Tank No. 3		3																
EQT0014	T-104 – Blend Tank No. 1		3																
EQT0015	T-105 – Blend Tank No. 2		3																
EQT0016	T-106 – Blend Tank No. 3		3																
EQT0017	T-107 – Intermediate Tank No. 1		3																
EQT0018	T-108 – Intermediate Tank No. 2		3																
EQT0019	T-109 – Intermediate Tank No. 3		3																
FUG0001	GDP FUG – GDP Fugitives				1					1						1			
UNF0001	AI168018 – Green Diesel Plant					1					1				1	1		1	3

KEY TO MATRIX

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60					40 CFR 61				40 CFR 63				40 CFR				
		A	Dc	Kb	VVa	GGGa	A	F	J	V	A	F	Q	CC	52	64	68	72	
EQT0001	BE/FA-DC – Receiver Dust Collector Vent																		
EQT0002	BE-UNLD – Bleached Earth Unloading																		
EQT0003	FA-UNLD – Filter Aid Unloading																		
EQT0004	GDP CT – GDP Cooling Tower												3						
EQT0005	GDP FL – GDP Flare																		
EQT0006	GDP HTRS – GDP Heaters		3																
EQT0007	GDP WWT – Wastewater Pretreatment																		
EQT0008	TK-CA – Citric Acid Tank			3															
EQT0011	T-101 – Feed Tank No. 1			3															
EQT0012	T-102 – Feed Tank No. 2			3															
EQT0013	T-103 – Feed Tank No. 3			3															
EQT0014	T-104 – Blend Tank No. 1			3															
EQT0015	T-105 – Blend Tank No. 2			3															
EQT0016	T-106 – Blend Tank No. 3			3															
EQT0017	T-107 – Intermediate Tank No. 1			3															
EQT0018	T-108 – Intermediate Tank No. 2			3															
EQT0019	T-109 – Intermediate Tank No. 3			3															
FUG0001	GDP FUG – GDP Fugitives					3	3			3	3								
UNF0001	AI168018 – Green Diesel Plant														3				3

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT0006	40 CFR 60 Subpart Dc	Does not apply	40 CFR 60.40c	The heater does not produce steam
EQT0004	40 CFR 63 Subpart Q	Does not apply	40 CFR 63.400	Does not use chromium based water treatment chemicals
EQT0008	LAC 33:III.2103 Control of VOC	Does not apply	LAC 33:III.2103.A	Vapor Pressure < 1.5 psia
EQT011 – EQT019	40 CFR 60 Subpart Kb for tanks	Does not apply	40 CFR 60.110b	Vapor Pressure < 0.51 psia
FUG0001	40 CFR 60 Subparts GGGa and VVa 40 CFR 61 Subparts J and V	Does not apply	40 CFR 60.640	The plant is not a refinery process unit Is not in benzene or VHAP service Is not a SOCOMI facility
UNF0001	40 CFR 63 Subpart CC	Does not apply	40 CFR 63.640	The plant is not a refinery process unit
	LAC 33:III.Chapter 59 40 CFR Part 68	Does not apply	LAC 33:III.5907.A	Does not store or handle any subject materials more than their threshold quantities
The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit				

INVENTORIES

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

Activity Number: PER20090001

Permit Number: 2520-00158-V0

Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Green Diesel Plant						
EQT 0001	BE/FA-DC - Receiver Dust Collector Vent					8760 hr/yr
EQT 0002	BE-UNLD - Bleached Earth Unloading					8760 hr/yr
EQT 0003	FA-UNLD - Filter Aid Unloading					8760 hr/yr
EQT 0004	GDP-CT - Cooling Tower			3500 gallons/min		8760 hr/yr
EQT 0005	GDP-FL - Flare					8760 hr/yr
EQT 0006	GDP-HTRS - GDP Heaters		36 MM BTU/hr	30 MM BTU/hr		8760 hr/yr
EQT 0007	GDP-WWT - Wastewater Pretreatment					8760 hr/yr
EQT 0008	TK-CA - Citric Acid Tank	31000 gallons				8760 hr/yr
EQT 0011	T-101 - Feed Tank No. 1	2.1 million gallons				8760 hr/yr
EQT 0012	T-102 - Feed Tank No. 2	2.1 million gallons				8760 hr/yr
EQT 0013	T-103 - Feed Tank No. 3	2.1 million gallons				8760 hr/yr
EQT 0014	T-104 - Blend Tank No. 1	1.26 million gallons				8760 hr/yr
EQT 0015	T-105 - Blend Tank No. 2	1.26 million gallons				8760 hr/yr
EQT 0016	T-106 - Blend Tank No. 3	1.26 million gallons				8760 hr/yr
EQT 0017	T-107 - Intermediate Tank No. 1	1.26 million gallons				8760 hr/yr
EQT 0018	T-108 - Intermediate Tank No. 2	1.26 million gallons				8760 hr/yr
EQT 0019	T-109 - Intermediate Tank No. 3	1.26 million gallons				8760 hr/yr
FUG 0001	GDP-FUG - Process Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Green Diesel Plant							
EQT 0001	BE/FA-DC - Receiver Dust Collector Vent		300	.33		70	80
EQT 0002	BE-UNLD - Bleached Earth Unloading		1500	.67		60	80
EQT 0003	FA-UNLD - Filter Aid Unloading		800	.5		60	80
EQT 0004	GDP-CT - Cooling Tower			20		28	
EQT 0005	GDP-FL - Flare	65.6	25109	2.85		150	1832
EQT 0006	GDP-HTRS - GDP Heaters	25		4		80	730

Relationships:

INVENTORIES

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant
Activity Number: PER20090001
Permit Number: 2520-00158-V0
Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Group Type	Group Description
UNF 0001	Unit or Facility Wide	AI168018 - Green Diesel Plant

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0720	0720 Petroleum Refining (Rated Capacity)	12	M bbl/day

SIC Codes:

2869	Industrial organic chemicals, nec	AI 168018
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

Activity Number: PER20090001

Permit Number: 2520-00158-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Green Diesel Plant															
EQT 0001 BE/FA-DC							0.01	0.02	0.06						
EQT 0002 BE-UNLD							0.01	0.10	0.05						
EQT 0003 FA-UNLD							<0.01	0.05	<0.01						
EQT 0004 GDP-CT							0.12	0.19	0.54				1.26	1.26	5.52
EQT 0005 GDP-FL	216.48	248.96	0.45	1.67	1.92	0.08	0.53	0.61	0.01	1.26	1.44	0.02	418.38	481.14	5.03
EQT 0006 GDP-HTRS	2.45	2.94	10.73	1.05	1.26	4.60	0.22	0.27	0.96	0.05	0.94	0.22	0.16	0.19	0.70
EQT 0007 GDP-WWT													0.15	0.15	0.65
EQT 0008 TK-CA													<0.01		<0.01
EQT 0011 T-101													0.02		0.09
EQT 0012 T-102													0.02		0.09
EQT 0013 T-103													0.02		0.09
EQT 0014 T-104													0.02		0.07
EQT 0015 T-105													0.02		0.07
EQT 0016 T-106													0.02		0.07
EQT 0017 T-107													0.02		0.07
EQT 0018 T-108													0.02		0.07
EQT 0019 T-109													0.02		0.07
FUG 0001 GDP-FUG													1.87		8.20

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

Activity Number: PER20090001

Permit Number: 2520-00158-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0005 GDP-FL	Ammonia	<0.01	<0.01	<0.01
	Hydrogen sulfide	0.01	0.02	<0.01
	n-Hexane	<0.01	<0.01	<0.01
FUG 0001 GDP-FUG	Ammonia	<0.01		<0.01
	Hydrogen sulfide	0.01		0.04
UNF 0001 AI168018	Ammonia			<0.01
	Hydrogen sulfide			0.04
	n-Hexane			<0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

Activity Number: PER20090001

Permit Number: 2520-00158-V0

Air - Title V Regular Permit Initial

EQT 0001 BE/FA-DC - Receiver Dust Collector Vent

- 1 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

EQT 0002 BE-UNLD - Bleached Earth Unloading

- 2 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0003 FA-UNLD - Filter Aid Unloading

- 3 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0005 GDP-FL - Flare

- 4 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- 5 [LAC 33:III.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.
- 6 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average
- 7 [LAC 33:III.2115.J.1] Demonstrate compliance with the requirements of LAC 33:III.2115 by use of a flare.
- 8 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

EQT 0006 GDP-HTRS - GDP Heaters

- 9 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 10 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

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FUG 0001 GDP-FUG - Process Fugitive Emissions

- 11 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 12 [LAC 33:III.2121.B.1] Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration.
- 13 [LAC 33:III.2121.B.2] Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 14 [LAC 33:III.2121.B.3] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided.
- 15 [LAC 33:III.2121.C.1.a.i] Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 16 [LAC 33:III.2121.C.1.a.ii] Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 17 [LAC 33:III.2121.C.1.a.iii] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 18 [LAC 33:III.2121.C.1.b.i] Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 19 [LAC 33:III.2121.C.1.b.ii] Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions).
Which Months: All Year Statistical Basis: None specified
- 20 [LAC 33:III.2121.C.1.b.iii] Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 21 [LAC 33:III.2121.C.1.c] Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year).
Which Months: All Year Statistical Basis: None specified
- 22 [LAC 33:III.2121.C.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified
- 23 [LAC 33:III.2121.C.3.b] All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

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FUG 0001 GDP-FUG - Process Fugitive Emissions

- 24 [LAC 33:III.2121.C.4.c] Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
Which Months: All Year Statistical Basis: None specified
- 25 [LAC 33:III.2121.C.4.c] Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
Which Months: All Year Statistical Basis: None specified
- 26 [LAC 33:III.2121.E.1] When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired.
- 27 [LAC 33:III.2121.E] Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request.
- 28 [LAC 33:III.2121.F] Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period.
- 29 [LAC 33:III.507.H.1.a] To ensure compliance with the permit limits, fugitive emissions from the components in VOC service for more than 300 hours per year shall be monitored as specified in LAC 33:III.2121 which was detailed in the Specific Requirements section of the permit.

UNF 0001 AI168018 - Green Diesel Plant

- 30 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 31 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 32 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 33 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 34 [LAC 33:III.509.R.6] Permittee shall monitor the CO and VOC emissions from the plant, including associated increase at the VSCR, and calculate and maintain a record of the annual emissions, in TPY on a calendar year basis, for a period of five (5) years following resumption of regular operations.
- 35 [LAC 33:III.509.R.6] Before beginning actual construction of the Green Diesel Plant, permittee shall document and maintain a record of the following information: 1) a description of the project; 2) the emissions units whose emissions of a regulated pollutant could be affected by the project; and 3) a description of the applicability test used to determine that the project is not a major modification for any regulated pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded from the projected actual emissions (the demand growth exclusion) and an explanation for why such amount was excluded, and any netting calculations, if applicable.

SPECIFIC REQUIREMENTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

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- 36 [LAC 33:III.509.R.6] Permittee shall submit a report to LDEQ within 60 days after the end of the year if annual (CO and VOC) emissions, in TPY, from the Green Diesel Plant, including associated increases at the VSCR, exceed the baseline actual emissions by a "significant" (as defined in LAC 33:III.509.B) amount, and if such emissions differ from the preconstruction projection. This report shall contain the following: 1) the name, address, and telephone number of the major stationary source; 2) the annual emissions; and 3) any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).
- 37 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 38 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 39 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 40 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 41 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 42 [LAC 33:III.5107.A] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 43 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 44 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
- 45 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931. Submit notification in the manner provided in LAC 33:I.3923.
- 46 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.

SPECIFIC REQUIREMENTS

AI ID: 168018 - Diamond Green Diesel LLC - Green Diesel Plant

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- 47 [LAC 33:III.5107.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 48 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 49 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- 50 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- 51 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 52 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 53 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Compliance. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
-

General Information

AI ID: 168018 Diamond Green Diesel LLC - Green Diesel Plant

Activity Number: PER20090001

Permit Number: 2520-00158-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	2520-00158	Diamond Green Diesel LLC - Green Diesel Plant	CDS Number	11-24-2009

Physical Location: 14902 River Rd
(portion of)
Norco, LA 70000 **Main Phone:** 9857645605

Mailing Address: PO Box 696000
San Antonio, TX 782696000

Location of Front Gate: 29.998606 latitude, -90.384856 longitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Robert J. T. Martin PE	PO Box 518 Norco, LA 700790518	9857645605 (WP)	Air Permit Contact For
	George Stutzmann	PO Box 696000 San Antonio, TX 78269	2103452009 (WP)	Responsible Official for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Diamond Green Diesel LLC	PO Box 696000 San Antonio, TX 782696000	2103452009 (WP)	Operates
	Diamond Green Diesel LLC	PO Box 696000 San Antonio, TX 782696000	2103452009 (WP)	Air Billing Party for
	Diamond Green Diesel LLC	PO Box 696000 San Antonio, TX 782696000	2103452009 (WP)	Owns

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.



State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No. 7009 2820 0001 8250 0459

Mr. George Stutzmann
Diamond Green Diesel LLC
Post Office Box 696000
San Antonio, Texas 78269

RE: Part 70 operating permit, Green Diesel Plant, Diamond Green Diesel LLC, Norco, St. Charles Parish, Louisiana
TEMPO Activity No. PER20090001
Agency Interest No. 168018

Dear Mr. Stutzmann:

Your comments dated February 18, 2010 submitted in response to the proposed Title V Permit 2520-00158-V0, submitted on behalf of Diamond Green Diesel LLC have been received and evaluated. The Office of Environmental Services (LDEQ-OES) has decided to issue Permit 2520-00158-V0 in accordance with the Louisiana Environmental Quality Act (La. R.S. 30:2001 et seq.). Your comments and this Office's response are summarized below.

Comment #1:

Comment: SOB, p. 2 – Application: Please change the date cited for the permit application: it was dated November 24, 2009, not November 20, 2009.

Response: The permit application was signed and dated November 20, 2009 in Section 10 of the permit application.

Comment #2:

Comment: SOB, p. 3 - MACT Requirements: Please change "The facility is parts..." to "The facility is part..."

Response: The Statement of Basis is revised as requested.

Comment #3:

Comment: Air Permit Briefing Sheet - Origin, p. 2 of 7: Please change the date cited for the permit application; it was dated November 24, 2009, not November 20, 2009.

Response: The permit application was signed and dated November 20, 2009 in Section 10 of the permit application.

Comment #4:

Comment: Air Permit Briefing Sheet - Public Notice, p. 3 of 7: Please input the newspaper and library citations to reflect the locations of the public notice information.

Response: The proposed permit is revised to include public notice information.

Comment #5:

Comment: Specific Requirements, p. 1 of 5 - EQT 0005, GDP-FL: Diamond Green Diesel requests clarification in the permit that routing of gas streams to the flare constitutes compliance with LAC 33:III.2115. Please revise SR 7 to read "Demonstrate compliance with the requirements of LAC 33:III.2115 by use of a flare."

Response: The requirement is revised to specify the flare as an approved control device.

Pursuant to La. R.S. 30:2024, "Any permit action shall be effective upon issuance unless a later date is specified therein. Such action shall be final and shall not be subject to further review unless, no later than thirty days after the notice of the action is served by certified mail or by hand upon the applicant, he files with the secretary a request for hearing." Under La. R.S. 30:2024.B, the secretary shall either grant or deny the request within thirty days. Any appeal from a final decision of the secretary shall be in accordance with the provisions of Chapter 2-A of Subtitle II of Title 30 of the Louisiana Revised Statutes. La. R.S. 30:2024.B. "If the secretary does not grant the hearing within the time provided for in Subsection B, the applicant shall, within thirty days thereafter, be entitled to file an application for de novo review of the secretary's action in the Nineteenth Judicial District Court for the parish of East Baton Rouge." La. R.S. 30:2024.C.

Pursuant to La. R.S. 30:2050.21, an aggrieved person may appeal a final permit by filing a petition for review with the 19th Judicial District Court for the parish of East Baton Rouge, Louisiana. A motion for an appeal must be filed with the Secretary within thirty days after notice of the permit decision.

Should you have any questions concerning this response to comments, please feel free to contact Dan Nguyen of the Office of Environmental Services, Air Permits Division at the address on the bottom of the cover page of this letter or by telephone at (225) 219-3118.

Sincerely,



Cheryl Sonnier Nolan
Assistant Secretary

01 March 2010

Date

CSN:DCN

Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services

STATEMENT OF BASIS

Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
Proposed Permit Number: 2520-00158-V0

I. APPLICANT

Company:

Diamond Green Diesel LLC
Post Office Box 696000
San Antonio, Texas 78269

Facility:

Green Diesel Plant
14902 River Road, Norco, St. Charles Parish, Louisiana 70079
Location: 29^o 59' 54.98" latitude, -90^o 23' 5.48" longitude, Coordinate Datum NAD27

II. FACILITY AND CURRENT PERMIT STATUS

Diamond Green Diesel LLC proposes to construct and operate the Green Diesel Plant to convert waste grease, animal fats, used cooking oils, and other plant and vegetable oils to green diesel, light ends gas, and liquid petroleum gas (LPG)/naphtha. The project is a partnership between Valero Energy Corporation and Darling International, Inc.. The proposed plant will have a maximum capacity 10,920 barrels of diesel per day and be located at the Valero St. Charles Refinery, Norco, St. Charles Parish

Raw materials, including waste grease, animal fats, used cooking oils, and other plant and vegetable oils will be received by rail, stored in tanks, and then pretreated using the Desmet pretreatment process, which will include de-gumming, washing, and bleaching to remove contaminants, primarily phosphorous and other elements, that could foul the hydrotreating and isomerization catalysts. During the pretreatment process, the raw materials will be blended, centrifuged to separate solids and hydrated phospholipids, and treated with acid and caustic. Additional impurities will be removed with clay adsorption. The pretreated oil will be recovered by filtration. The pretreated oil will be converted to a biomass-based diesel product, light ends gas, and LPG/naphtha using the EcofiningTM Process, an advanced hydroprocessing-isomerization process licensed by UOP, LLC. The process will include two shared stack heaters, a cooling tower, and a flare for startup/shutdown events, emergencies, or upsets.

The product streams will be transferred to the Valero's St. Charles Refinery (VSCR) directly via pipeline. To support the Green Diesel Plant operations, VSCR will provide hydrogen, water, nitrogen, steam, amine, and recovery/treatment for sour water, amine, hydrogen purge gas, and wastewater.

**Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
Proposed Permit Number: 2520-000158-V0**

III. PROPOSED PROJECT/PERMIT INFORMATION

Application

A permit application dated November 20, 2009 was submitted requesting a Part 70 operating permit.

Project

Diamond Green Diesel LLC proposes to construct and operate the Green Diesel Plant to convert waste grease, animal fats, used cooking oils, and other plant and vegetable oils to green diesel, light ends gas, and liquid petroleum gas (LPG)/naphtha. The project is a partnership between Valero Energy Corporation and Darling International, Inc.. The proposed plant will have a maximum capacity 10,920 barrels of diesel per day and will be located at the Valero St. Charles Refinery, Norco, St. Charles Parish.

Proposed Permit

This permit (Permit 2520-00158-V0) is the initial Part 70 operating permit for the proposed Green Diesel Plant.

Permitted Air Emissions (tons/year)

Pollutant	Proposed Emissions	Project Related Increases	PSD De minimis	Netting Analysis Required
PM/PM ₁₀	1.63	5.18	25/15	No
SO ₂	0.24	13.76	40	No
NO _x	4.68	13.76	40	No
CO	11.18	50.29	100	No
VOC	20.79	28.62	40	No
LAC 33:III Chapter 51 Regulated Toxic Air Pollutants				
n-Hexane	< 0.01			
Ammonia	< 0.01			
Hydrogen Sulfide	0.04			

IV. REGULATORY ANALYSIS

The applicability of the appropriate standards is straightforward and provided in the Specific Requirements section of the proposed permit. Similarly, the Monitoring, Reporting and Recordkeeping necessary to demonstrate compliance with the applicable terms, conditions and standards are also provided in the Specific Requirements section of the proposed permit.

Applicability and Exemptions of Selected Subject Items

The explanations for the non-applicability and exemptions of selected subject items are listed in Table XI of the proposed permit.

**Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
Proposed Permit Number: 2520-000158-V0**

Prevention of Significant Deterioration (PSD)/Nonattainment Review

Emissions from the proposed Green Diesel Plant will be less than the PSD significance levels. The Green Diesel Plant will also cause emissions from other equipment at the VSCR to increase. The actual to projected actual applicability test indicates that all the criteria pollutant increases will be below the significance levels. Emissions of CO and VOC will increase more than 50 percent of their significance levels, then there is a reasonable possibility that the project will result in a significant emissions increase. Pre-project and post-project monitoring, record keeping, and reporting are required.

Streamlined Equipment Leak Monitoring Program

The permit does not include any Streamlined Equipment Leak Monitoring Program.

MACT Requirements

The facility is part of a major source of Toxic Air Pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. There are no Class I and Class II emissions from the proposed plant. MACT is not required. However, TAPs emissions from the facility will be reported as required by LAC 33:III.Chapter 51.

Air Quality Analysis

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

General Condition XVII Activities

No General Condition XVII Activities are included in the permit.

Insignificant Activities

All Insignificant Activities are authorized under LAC 33:III.501.B.5. For a list of approved Insignificant Activities, refer to the Section IX – Insignificant Activities of the proposed permit.

V. PERMIT SHIELD

This permit does not contain any permit shield.

VI. PERIODIC MONITORING

To demonstrate compliance with the permit limits, fugitive emissions from components in VOC service for more than 300 hours per year will be monitored as specified in LAC 33:III.2121 which was detailed in the Specific Requirements section of the permit.

**Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
Proposed Permit Number: 2520-000158-V0**

VII. GLOSSARY

Best Available Control Technologies (BACT) - An emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under this part which would be emitted from any proposed major stationary source or major modification which the administrative authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant.

CAM - Compliance Assurance Monitoring rule – A federal air regulation under 40 CFR Part 64

Carbon Black - A black colloidal substance consisting wholly or principally of amorphous carbon and used to make pigments and ink.

Carbon Monoxide (CO) – (Carbon monoxide) a colorless, odorless gas produced by incomplete combustion of any carbonaceous (gasoline, natural gas, coal, oil, etc.) material.

Cooling Tower – A cooling system used in industry to cool hot water (by partial evaporation) before reusing it as a coolant.

Continuous Emission Monitoring System (CEMS) – The total combined equipment and systems required to continuously determine air contaminants and diluent gas concentrations and/or mass emission rate of a source effluent.

Cyclone – A control device that uses centrifugal force to separate particulate matter from the carrier gas stream.

Duct Burner – A device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Federally Enforceable Specific Condition - A federally enforceable specific condition written to limit the potential to Emit (PTE) of a source that is permanent, quantifiable, and practically enforceable. In order to meet these requirements, the draft permit containing the federally enforceable specific condition must be placed on public notice and include the following conditions:

- A clear statement of the operational limitation or condition which limits the source's potential to emit;
- Recordkeeping requirements related to the operational limitation or condition;

**Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
Proposed Permit Number: 2520-000158-V0**

- A requirement that these records be made available for inspection by LDEQ personnel;
- A requirement to report for the previous calendar year.

Grandfathered Status- Those facilities that were under actual construction or operation as of June 19, 1969, the signature date of the original Clean Air Act. These facilities are not required to obtain a permit. Facilities that are subject to Part 70 (Title V) requirements lose grandfathered status and must apply for a permit.

Heat Recovery Steam Generator (HRSG) – A steam generator that recovers exhaust heat from a gas turbine, and provides economizing and steam generation surfaces.

Hydrogen Sulfide (H₂S) - A colorless inflammable gas having the characteristic odor of rotten eggs, and found in many mineral springs. It is produced by the action of acids on metallic sulfides, and is an important chemical reagent.

Maximum Achievable Control Technology (MACT) - The maximum degree of reduction in emissions of each air pollutant subject to LAC 33:III.Chapter 51 (including a prohibition on such emissions, where achievable) that the administrative authority, upon review of submitted MACT compliance plans and other relevant information and taking into consideration the cost of achieving such emission reduction, as well as any non-air-quality health and environmental impacts and energy requirements, determines is achievable through application of measures, processes, methods, systems, or techniques.

NESHAP - National Emission Standards for Hazardous Air Pollutants –Air emission standards for specific types of facilities, as outlined in 40 CFR Parts 61 through 63

Nitrogen Oxides (NO_x) - Compounds whose molecules consists of nitrogen and oxygen.

Nonattainment New Source Review (NNSR) - A New Source Review permitting program for major sources in geographic areas that do not meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. Nonattainment NSR is designed to ensure that emissions associated with new or modified sources will be regulated with the goal of improving ambient air quality.

NSPS - New Source Performance Standards – Air emission standards for specific types of facilities, as outlined in 40 CFR Part 60

Organic Compound - Any compound of carbon and another element. Examples: Methane (CH₄), Ethane (C₂H₆), Carbon Disulfide (CS₂)

Part 70 Operating Permit- Also referred to as a Title V permit, required for major sources as defined in 40 CFR 70 and LAC 33:III.507. Major sources include, but are not limited to, sources which have the potential to emit: ≥ 10 tons per year of any toxic air pollutant; ≥ 25 tons of total toxic air pollutants; and ≥ 100 tons per year of regulated pollutants (unless regulated solely under 112(r) of the Clean Air Act) (25 tons per year for sources in non-attainment parishes).

**Diamond Green Diesel LLC
Green Diesel Plant
Norco, St. Charles Parish, Louisiana
Agency Interest No. 168018
Activity Number: PER20090001
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PM₁₀- Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by the method in Title 40, Code of Federal Regulations, Part 50, Appendix J.

Potential to Emit (PTE) - The maximum capacity of a stationary source to emit any air pollutant under its physical and operational design.

Prevention of Significant Deterioration (PSD) – A New Source Review permitting program for major sources in geographic areas that meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. PSD requirements are designed to ensure that the air quality in attainment areas will not degrade.