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August 28, 2020

UPS# 1Z549V5R0190829712

NYS DEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561-1620

Re: Global Companies LLC – Cargo Terminal
Title V Facility Permit No. 3-3348-00082/00010
Title V Facility Permit Modification and Renewal Application

To Whom it May Concern,

On behalf of Global Companies LLC (Global), EnviroSpec Engineering, PLLC (EnviroSpec) is submitting the enclosed application for a Title V Facility Permit Renewal at the Global Companies - Cargo Terminal (Terminal) located at 1096 River Road in New Windsor, New York, as well as application forms and Potential to Emit (PTE) calculations in support of a proposed increase in the permitted gasoline throughput at the facility. The terminal currently operates under Title V Facility Permit No. 3-3348-00082/00010 which expires on February 28, 2021.

The current permit limit is an annual facility throughput of 1,419,100,000 gallons of distillate and 236,000,000 gallons of gasoline. Global is requesting to increase the annual facility gasoline throughput to 550,000,000 gallons of gasoline, and decrease the annual facility distillate throughput to 1,100,000,000 gallons of distillate. In order to maintain total facility hazardous air pollutant (HAP) emissions below 25 tons per year and individual HAP emissions below 10 tons per year, a Vapor Recovery Unit with an emissions guarantee of 2 milligrams per liter (mg/L) loaded of gasoline, and a vacuum assist system to capture fugitive emissions, will be installed.

The VRU will substantially reduce actual emissions on a gallon loaded basis by reducing the permitted emission rate for gasoline loading from 80mg/l to 2 mg/l and eliminate associated fugitive emissions. The VRU will replace the existing open flare as the primary VOC control, although the open flares will continue to operate and be used as a backup with an allowable gasoline throughput limit of 5,000,000 gallons per year at 80 mg/L, without the operation of the vacuum assist system.

The attached PTE calculations show the control efficiency of 2 mg/L at the loading rack, and the use of the vacuum assist system, in addition to the 5,000,000 gallons per year at 80 mg/L. The throughput increase does not meet the definition of a NSR major modification in 6 NYCRR 231-4 or result in a project emission potential which equals or exceeds the applicable significant project threshold defined in 6 NYCRR 231-13. A Project Emission Potential (PEP) is attached to demonstrate this.

The enclosed application package includes the following:

- Project Emission Potential (PEP)
- Emission Unit Matrix
- Renewal Application Forms
- Modification Application Forms
- List of Exempt Activities
- Method of Compliance Form
- Facility Potential to Emit (PTE)
- SEQR Short Form
- Part 212 Modeling Protocol

With this renewal, the Terminal is now subject to the requirements of 6 NYCRR 212 (Part 212). This application includes a Part 212 Modeling Protocol which Global intends to use to demonstrate compliance with Part 212.

This application is complete based on the requirements in 6 NYCRR Part 201-5.2(b), as outlined below:

- Identifying information
 - Provided on the Renewal Forms.
- A list and description of all emission sources at the facility
 - Provided on the Renewal Forms.
- A listing of the Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) codes which correspond to the primary operations carried out at the facility
 - Provided on the renewal forms.
- A description of all processes, their associated emissions sources and products
 - Provided on the Renewal Forms.
- A list of all emission points including the required parameters
 - Provided on the Renewal Forms.
- A process flow diagram detailing which process emissions and emission sources exhaust from which emission point
 - Provided on the Renewal Forms.
- A list including the type, rate, and quantity of all regulated air pollutant emissions and persistent, bioaccumulative and toxic compound emissions, as listed in Subpart 201-9 of this Part, in sufficient detail for the department to determine those State and Federal requirements that are applicable to the facility
 - Provided on Renewal Forms and Modeling Protocol.
- A list of all State and Federal air pollution control requirements applicable to the facility
 - Provided on the Renewal Forms.
- Any other information requested by the department
 - N/A



Should you have any questions please feel free to contact me at (518) 453-2203 or Tom Keefe of Global at (781) 398-4132.

Sincerely,



Nicole Brower, PE
Senior Engineer
Envirospec Engineering, PLLC

Cc: Tom Keefe – Global Companies LLC
Steve Charron – Global Companies LLC
Ty Kropp – Terminal Operations Manager, Global Companies LLC



Total Project Emission Potential

EMISSION SOURCE	ACTUALS		BASELINE EMISSIONS*	PROJECTED EMISSIONS**	PROJECT EMISSION POTENTIAL	PROJECTED THROUGHPUT FOR PEP (gallons)
	2015	2016				
Gasoline Loading	27.675	29.662	28.67	6.22	NA	550,000,000
Gasoline Fugitives	6.327	6.778	6.55	0.17	NA	550,000,000
Gasoline Loading Total (control device and fugitives)	34.002	36.440	35.22	6.38	NA	550,000,000
IFR Tank Working Losses	0.200	0.209	0.20	1.52	1.32	550,000,000
TOTAL	34.202	36.648	35.43	7.91	1.32	
Project Emission Potential					1.32	

* Baseline Emissions are the average of 2015 and 2016

** Project Emissions using 2 mg/L with VAC for the VRU and 80 mg/L without operation of the vac for the flares.

Notes:

1. Actuals use an emission rate of 35 mg/L
2. All emissions in tons per year

EMISSIONS FROM 2016 GASOLINE LOADING

Throughput:

203 Mmgal

Control Device Emission Rate:

35 mg/L

 equal to:

0.2921 lbs/1000 gallons

Loading into an Uncleaned Barge:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	35 mg/L from VDU	Total Emissions (lbs)	Total Emissions (tons)
	N/A	203	59,323	59,323	29.66

EMISSIONS FROM 2015 GASOLINE LOADING

Throughput:

190 Mmgal

Control Device Emission Rate:

35 mg/L

 equal to:

0.2921 lbs/1000 gallons

Loading into an Uncleaned Barge:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	80 mg/L from VDU	Total Emissions (lbs)	Total Emissions (tons)
	N/A	190	55,351	55,351	27.68

PROPOSED GASOLINE LOADING

Throughput:

545 Mmgal

Control Device Emission Rate:

2 mg/L
- mg/L

 equal to:

0.0167 lbs/1000 gallons
0.0000 lbs/1000 gallons

Loading into Tanker Truck:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	2 mg/L from Control Device	Total Emissions (lbs)	Total Emissions (tons)
	N/A	545	9,096	9,096	4.55

Loading into Tanker Truck:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	0 mg/L from Fugitive	Total Emissions (lbs)	Total Emissions (tons)
	N/A	545	0	0	0.00

Throughput:

5 Mmgal

Control Device Emission Rate:

80 mg/L
8 mg/L

 equal to:

0.6676 lbs/1000 gallons
0.0668 lbs/1000 gallons

Loading into Tanker Truck:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	2 mg/L from Control Device	Total Emissions (lbs)	Total Emissions (tons)
	N/A	5	3,338	3,338	1.67

Loading into Tanker Truck:	Emission Factor* (lb/1000 gal)	Throughput (Mmgal)	0 mg/L from Fugitive	Total Emissions (lbs)	Total Emissions (tons)
	N/A	5	334	334	0.17

Emission Unit Matrix - Cargo Terminal

Emission Unit ID	Emission Unit Description	Process ID	Process Description	SCC Code	Source ID	Source Description	Control ID	Control Description	Emission Point ID
1-RACK1	Truck loading rack. Gasoline vapors recovered from tank trucks are controlled by a vapor combustion unit.	R1D	Distillate tank truck loading.	4-04-002-50	00001	Rack 1			
		R1G	Gasoline truck loading.	4-04-002-50	00001	Rack 1	FLRE1 FLRE2 TLVRU VACTK	VAPOR COMBUSTION SYSTEM 1 VAPOR COMBUSTION SYSTEM 2 VAPOR RECOVERY SYSTEM Vac Assist Vapor Reduction System	00001 00002 00003 OTRK3
		TTV	FUGITIVE EMISSIONS FROM TANK TRUCKS DURING LOADING.	4-04-001-54	00001	Rack 1			
1-TANKS	Six (6) storage tanks of different volumes contain gasoline, petroleum liquid or volatile organic liquids (including ethanol). All are fixed roof tanks with internal floating roofs.	FG1	MISCELLANEOUS FUGITIVE HAP AND VOC EMISSIONS FROM VALVES, PUMPS, AND FLANGE LEAKAGE. ALL EMISSIONS ARE AT INSIGNIFICANT LEVELS	4-04-001-51	FVPMP	Appurtenances			
		GAS	Storage of gasoline and petroleum liquids	4-04-001-60	TK414	2,190,300 gallon Tank	TK14C	Internal Floating Roof	17414
					TK531	1,109,850 gallon Tank	TK31C	Internal Floating Roof	30531
					TK532	2,261,700 gallon Tank	TK32C	Internal Floating Roof	30532
					TK533	588,000 gallon Tank	TK33C	Internal Floating Roof	30533
					TK534	4,112,850 gallon Tank	TK34C	Internal Floating Roof	30534
					TK535	4,560,150 gallon Tank	TK35C	Internal Floating Roof	30535
		VOL	Storage of volatile organic liquids	4-03-010-99	TK414	2,190,300 gallon Tank	TK14C	Internal Floating Roof	17414
					TK531	1,109,850 gallon Tank	TK31C	Internal Floating Roof	30531
					TK532	2,261,700 gallon Tank	TK32C	Internal Floating Roof	30532
					TK533	588,000 gallon Tank	TK33C	Internal Floating Roof	30533
					TK534	4,112,850 gallon Tank	TK34C	Internal Floating Roof	30534
					TK535	4,560,150 gallon Tank	TK35C	Internal Floating Roof	30535

DEC ID: 3334800082

Application ID: 333480008200010


Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section I - Certification Permit Application Certification


I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. submitted. Based on my inquiry of the person or persons directly responsible for gathering the information I believe the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Responsible Official	Thomas Keefe	Title	Vice President EHS Operations
Signature		Date	08/27/2020

Professional Engineer Certification

I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering.

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Professional Engineer	Nicole Brower, PE	NYS License No.	091076
Signature		Date	8/28/2020

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

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Jun 29, 2020 12:02 pm

Section II - Identification Information

Permit Type:	Air Title V Facility (ATV)
	RENEWAL
General Permit Title:	
<input type="checkbox"/> Application involves construction of new facility	<input type="checkbox"/> Application involves construction of new emission unit(s)

Owner / Firm

Name	GLOBAL COMPANIES LLC							
Street	800 SOUTH ST PO BOX 9161							
City	WALTHAM	State	MA	Country	USA	Zip	02453	
Owner Classification	Corporation/Partnership			Taxpayer Id	113561110			

Facility

Name	GLOBAL COMPANIES - CARGO TERMINAL				
Address	1096 RIVER RD				
City	NEW WINDSOR	Zip	12553		

Owner / Firm Contact Information

Name	TOM KEEFE	Phone No.	7813984132					
Affiliation		Fax No.						
Title								
Street	GLOBAL COMPANIES LLC 800 SOUTH ST							
City	WALTHAM	State	MA	Country	USA	Zip	02453	
E-mail	tkeefe@globalp.com							

Facility Contact Information

Name	TY KROPP	Phone No.	8455614100					
Affiliation		Fax No.	7813989236					
Title								
Street	GLOBAL COMPANIES LLC 1184 RIVER RD							
City	NEW WINDSOR	State	NY	Country	USA	Zip	12553	
E-mail								

Project Description

Application for renewal of Air Title V Facility.

 and modification

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Classification

INDUSTRIAL

Affected States

CONNECTICUT	NEW JERSEY	PENNSYLVANIA
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SIC Codes

5171

NAICS Codes

4543

424710

Facility Description

The Global Cargo Terminal facility is a gasoline and distillate oil storage and distribution terminal located in New Windsor, New York. The facility operates a loading rack used to fill cargo trucks with gasoline and distillate fuel. Vapors are recovered from the gasoline loading operation (cargo trucks) and controlled by the operation of two open flares. The facility utilizes eighteen storage tanks of varying volume to manage onsite inventory of gasoline and distillate oil products. Of the eighteen storage tanks, six are used to store gasoline products and are required to control associated vapor emissions.

either an open flare or a Vapor Recovery Unit

This renewal permit reauthorizes current operations which does not include the intermodal rail project permit modification (crude oil) applied for on August 14, 2013. The intermodal rail project application related to the South, North and Newburgh terminals was withdrawn by Global Companies on October 2, 2014.

550,000,000

1,100,000,000

Distillate oil and gasoline throughputs are limited by Federally Enforceable conditions established as part of initial permitting. Specifically, the facility is limited to a yearly gasoline throughput of 236,000,000 gallons and a yearly throughput of distillate fuel of 1,419,100,000 gallons. These limits ensure that individual hazardous air pollutants emissions and total hazardous air pollutant emissions are below the major stationary source thresholds of 10 tons per year and 25 tons per year respectively. Title V permitting applies to this facility since potential volatile organic compound emissions exceed the major stationary source threshold of 50 tons per year.

The Global Cargo Terminal facility is subject to numerous monitoring, recordkeeping and reporting requirements outlined by permit conditions under federal and state regulation including but not limited to 6NYCRR 201, 6NYCRR 225, 6NYCRR 229, 40CFR Part 60-Ka, 40CFR Part 60-JJJJ (Part 201 exempt source), 40CFR Part 63-JJJJJ (Part 201 exempt source), 40CFR Part 63-BBBBBB and 40CFR Part 64.

The Standard industrial Classification representative of this facility is 5171 - Petroleum Bulk Stations and Terminals.

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Compliance Statements (Title V Only)

I certify that as of the date of this application the facility is in compliance with all applicable requirements YES NO

If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block of section IV of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

- This facility will continue to be operated and maintained in such manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.
- For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.
- Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine status.

Facility Applicable Federal Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	A	4						
40	CFR	60	A	7	a					
40	CFR	60	A	7	f					
40	CFR	63	BBBBBB	11087						
40	CFR	63	BBBBBB	11088						
40	CFR	63	BBBBBB	11089						
40	CFR	63	BBBBBB	11093						
40	CFR	63	BBBBBB	11094	b					
40	CFR	63	BBBBBB	11094	c					
40	CFR	63	BBBBBB	11094	d					
40	CFR	63	BBBBBB	11094	e					
40	CFR	63	BBBBBB	11095	a					
40	CFR	63	BBBBBB	11095	b					
40	CFR	63	BBBBBB	11098						
40	CFR	63	JJJJJJ	11223	e					
40	CFR	68								
40	CFR	82	F							
6	NYCRR	200		6						
6	NYCRR	201	1	7						
6	NYCRR	201	1	8						
6	NYCRR	201	3	2	a					
6	NYCRR	201	3	3	a					
6	NYCRR	201	6	4	a	4				
6	NYCRR	201	6	4	a	7				
6	NYCRR	201	6	4	a	8				
6	NYCRR	201	6	4	c					
6	NYCRR	201	6	4	c	2				
6	NYCRR	201	6	4	c	3	ii			

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information
Facility Applicable Federal Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	6	4	d	4				
6	NYCRR	201	6	4	e					
6	NYCRR	201	6	4	f	6				
6	NYCRR	202	1	1						
6	NYCRR	202	2	1						
6	NYCRR	202	2	5						
6	NYCRR	215		2						
6	NYCRR	229		5	c					
6	NYCRR	201	6							

Facility State Only Requirements

Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	1	4						
6	NYCRR	211		1						
	ECL	19	0301							

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	JJJJ	4233	e					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

~~The Global South facility operates a Part 201 exempt 100 kw emergency gas fired generator (Kohler model 100REZGD) certified compliant by the manufacturer by notice to the Department received July 19, 2012. The facility shall maintain records as appropriate.~~

Contaminants

Does not need to be included, as it is exempt.

Capping	CAS No.	Contaminant Name
<input type="checkbox"/>	000630-08-0	CARBON MONOXIDE

Monitoring Information

<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter			Manufacturer Name/Model No.	
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	14	Desc AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	
Reporting Reqs	Code	15	Desc ANNUALLY (CALENDAR)	

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	63	BBBBBB							
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Applicable requirement - 40CFR 63.11094(d) and 40CFR 63.11094(e), Subpart BBBBBB

Since the facility is subject to the equipment leak provisions of §63.11089, then the facility shall prepare and maintain a record describing the types, identification, and locations of all equipment in gasoline service. For facilities electing to implement an instrument program under §63.11089, the record shall contain a full description of the program.

The facility shall record in a log book for each leak that is detected, the information below:

- 1) The equipment type and identifier.
- 2) The nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell).
- 3) The date the leak was detected and the date of each attempt to repair the leak.
- 4) Repair methods applied in each attempt to repair the leak.
- 5) "Repair delayed" and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak.
- 6) The expected date of successful repair of the leak if the leak is not repaired within 15 days.
- 7) The date of successful repair of the leak.

Contaminants

Capping	CAS No.	Contaminant Name
<input type="checkbox"/>	0NY998-00-0	VOC

Monitoring Information

<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice	Process Material			Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code		Desc	
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	63	BBBBBB							
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Applicable requirement - 40CFR 63.11092(a)(4), 63.11092(b)(2), 63.11094(f)(2)(ii) Subpart BBBBBB

Operation of the open flares as a control device is not subject to the performance testing under 40CFR 63.11092(a). The facility shall demonstrate the open flares comply with the requirements under 40CFR 63.11(b) and report all pertinent information with the Notification of Compliance Status (see §63.11093(b)). This includes, but not limited to, flare design, visible emissions readings, heat content determinations, flow rate measurements and velocity determinations.

The open flares shall be equipped with a heat sensing device installed in proximity to the pilot light to indicate the presence of a flame.

Contaminants

Capping	CAS No.	Contaminant Name
<input type="checkbox"/>	0NY998-00-0	VOC

Monitoring Information

<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code		Description		
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	7	1						
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Capped Regulations										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	63	R							

Description

In support of capping individual and total HAP emissions, the facility is limited to a rolling twelve month distillate throughput of 1,419,100,000 gallons.

1,100,000,000

Contaminants

Capping	CAS No.	Contaminant Name
<input checked="" type="checkbox"/>	0NY100-00-0	TOTAL HAP

Monitoring Information				
<input checked="" type="checkbox"/> WORK PRACTICE INVOLVING SPECIFIC OPERATIONS				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
03	036	DISTILLATES - NUMBER 1 AND NUMBER 2 OIL		
		Parameter		Manufacturer Name/Model No.
		Code	Description	
		Limit		Limit Units
Upper	Lower	Code	Description	
1,419,100,000		15	gallons	
Averaging Method	Code	Desc		
	17	ANNUAL MAXIMUM ROLLED MONTHLY		
Monitoring Freq	Code	Desc		
	05	MONTHLY		
Reporting Reqs	Code	Desc		
	15	ANNUALLY (CALENDAR)		

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	7	1						
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Capped Regulations										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	63	R							

Description

In support of capping individual and total HAP emissions, the facility is limited to a rolling twelve month gasoline throughput of 236,000,000 gallons.

550,000,000

Contaminants

Capping	CAS No.	Contaminant Name
<input checked="" type="checkbox"/>	0NY100-00-0	TOTAL HAP

Monitoring Information				
<input checked="" type="checkbox"/> WORK PRACTICE INVOLVING SPECIFIC OPERATIONS				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
03	017	GASOLINE		
Code		Parameter	Manufacturer Name/Model No.	
		Description		
Limit		Limit Units		
Upper	Lower	Code	Description	
236,000,000		15	gallons	
Averaging Method	Code	Desc		
	17	ANNUAL MAXIMUM ROLLED MONTHLY		
Monitoring Freq	Code	Desc		
	05	MONTHLY		
Reporting Reqs	Code	Desc		
	15	ANNUALLY (CALENDAR)		

DEC ID: 3334800082

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Jun 29, 2020 12:02 pm

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Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	201	7	1						
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Capped Regulations										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	63	R							

Description

Individual and total HAP emissions shall not exceed 10 and 25 tons respectively in any rolling twelve month period.

In support of capping individual and total HAP emissions, the facility is limited to a rolling twelve month gasoline throughput of 236,000,000 gallons and a rolling twelve month total distillate fuel throughput of 1,419,400,000 gallons.

1,100,000,000

Contaminants

550,000,000

Capping	CAS No.	Contaminant Name
<input checked="" type="checkbox"/>	000071-43-2	BENZENE
<input checked="" type="checkbox"/>	000100-41-4	ETHYLBENZENE
<input checked="" type="checkbox"/>	000108-88-3	TOLUENE
<input checked="" type="checkbox"/>	000110-54-3	HEXANE
<input checked="" type="checkbox"/>	000540-84-1	PENTANE, 2,2,4-TRIMETHYL-
<input checked="" type="checkbox"/>	001330-20-7	XYLENE, M, O & P MIXT.
<input checked="" type="checkbox"/>	001634-04-4	METHYL TERTBUTYL ETHER
<input checked="" type="checkbox"/>	0NY100-00-0	TOTAL HAP

Monitoring Information				
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter			Manufacturer Name/Model No.	
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	05	Desc	MONTHLY
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	225	1	2						
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global shall not sell, offer for sale, purchase, or fire distillate fuel which exceeds 0.0015 percent sulfur by weight.

Monitoring Information				
<input checked="" type="checkbox"/> WORK PRACTICE INVOLVING SPECIFIC OPERATIONS				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
04	036	DISTILLATES - NUMBER 1 AND NUMBER 2 OIL		
Parameter			Manufacturer Name/Model No.	
Code	Description			
007704349	SULFUR			
Limit		Limit Units		
Upper	Lower	Code	Description	
0.0015		57	percent by weight	
Averaging Method	Code	01	Desc	MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/D
Monitoring Freq	Code	11	Desc	PER DELIVERY
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	225	1	6	b					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global must retain, for at least five years, records containing the following information:

- (i) fuel analyses and data on the quantities of all oil received; and
 - (ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil sold.
- (2) Such fuel analyses must contain, as a minimum:
- (i) data on the sulfur content, ash content, specific gravity, and heating value of oil.

Monitoring Information				
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	14	Desc AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	
Reporting Reqs	Code	15	Desc ANNUALLY (CALENDAR)	

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	225	3	3	a					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global shall not sell or supply a gasoline to a retailer or wholesale purchaser-consumer, having a Reid Vapor Pressure greater than 9.0 pounds per square inch (psi) as sampled and tested by methods acceptable to the commissioner, during the period May 1st through September 15th of each year.

Monitoring Information				
<input checked="" type="checkbox"/> MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code	Description			
36	REID VAPOR PRESSURE			
Limit		Limit Units		
Upper	Lower	Code	Description	
9.0		291	pounds per square inch absolute	
Averaging Method	Code	76	Desc	MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE
Monitoring Freq	Code	11	Desc	PER DELIVERY
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	225	3	4	a					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global, as the owner or operator of a gasoline distribution terminal, must maintain records which includes the following:

- (1) The RVP of the gasoline.
- (2) A designation of the appropriate time period(s) in which the gasoline is intended to be dispensed to motor vehicles.
- (3) Written certification that the gasoline:
 - (i) conforms with all RVP and oxygen content requirements of this Subpart; and
 - (ii) is in compliance with all applicable State and Federal regulations which apply during the time period(s) specified pursuant to paragraph (3) of this subdivision.

Monitoring Information					
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES					
Work Practice		Process Material			Ref Test Method
Type	Code	Description			
		Parameter			Manufacturer Name/Model No.
Code	Description				
Limit		Limit Units			
Upper	Lower	Code	Description		
Averaging Method	Code	Desc			
Monitoring Freq	Code	14	Desc AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION		
Reporting Reqs	Code	15	Desc ANNUALLY (CALENDAR)		

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

**Section III - Facility Information
Facility Compliance Certification**

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	225	3	4	b					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global shall provide the following records with gasoline which is distributed from the terminal:

- (1) A copy of the certification required by 6NYCRR 225-3.4(a).
- (2) Documentation of the maximum RVP of the gasoline if the gasoline was subject to section 225-3.3 of this Subpart.
- (3) Designation of the appropriate time period(s) in which the gasoline is intended to be dispensed to motor vehicles.
- (4) Documentation of the shipment quantity and the shipment date of the gasoline being distributed.

Monitoring Information				
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	14	Desc AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	
Reporting Reqs	Code	15	Desc ANNUALLY (CALENDAR)	

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	229		3	d					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

The gasoline vapor collection and control system must capture gasoline vapors during loading and unloading of gasoline transport vehicles and must condense, absorb, adsorb, or combust gasoline vapors so emissions do not exceed 80 milligrams per liter (0.67 pounds/1000 gallons).

~~Performance criteria of the open flares shall be governed by the requirements of 40CFR Part 63 -BBBBBB (effective January 2011).~~

Monitoring Performed For							
Emission Unit	Emission Point	Process	Emission Source				
U00001	00001						

Monitoring Performed For							
Emission Unit	Emission Point	Process	Emission Source				
U00001	00002						

Contaminants

Capping	CAS No.	Contaminant Name
<input type="checkbox"/>	0NY998-00-0	VOC

Monitoring Information										
<input checked="" type="checkbox"/> INTERMITTENT EMISSION TESTING										
Work Practice		Process Material					Ref Test Method			
Type	Code	Description					Method 25A			
		Parameter					Manufacturer Name/Model No.			
Code	Description									
0NY998000	VOC									
Limit			Limit Units							
Upper	Lower	Code	Description							
80		318	milligrams per liter							
Averaging Method	Code	20	Desc	AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATE						
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION						
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)						

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section III - Facility Information Facility Compliance Certification

Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
6	NYCRR	229		5						
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Global, as an owner or operator of a gasoline loading terminal, petroleum liquid storage tanks and volatile organic liquid storage tanks subject to this Part must maintain the following records at the facility for a period of five years;

- (a) capacities of petroleum liquid storage tanks subject to section 229.3(a) or (b) of this Part, in gallons;
- (b) average daily gasoline throughput for gasoline loading terminals subject to section 229.3(d) of this Part, in gallons per year; and
- (c) capacities of volatile organic liquid storage tanks, subject to section 229.3 (e) of this Part in gallons.

Monitoring Information					
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES					
Work Practice		Process Material			Ref Test Method
Type	Code	Description			
Parameter					Manufacturer Name/Model No.
Code	Description				
Limit			Limit Units		
Upper	Lower	Code	Description		
Averaging Method	Code	Desc			
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)	

Facility Emissions Summary

Cas No.	Contaminant Name	PTE		Actual	
		(lbs/yr)	(tons/yr)	(lbs/yr)	(tons/yr)
000071-43-2	BENZENE				
000630-08-0	CARBON MONOXIDE				
000100-41-4	ETHYLBENZENE				
000110-54-3	HEXANE				
001634-04-4	METHYL TERTBUTYL ETHER				
0NY210-00-0	OXIDES OF NITROGEN				
000540-84-1	PENTANE, 2,2,4-TRIMETHYL-				
000108-88-3	TOLUENE				
0NY100-00-0	TOTAL HAP	48000			
0NY998-00-0	VOC				
001330-20-7	XYLENE, M, O & P MIXT.				

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Description

Emission Unit	U00001
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Loading Rack equipped with two bottom fill bays capable of loading gasoline. Vapors are recovered from tanker trucks and controlled by the operation of two open flares. **or a Vapor Recovery Unit (VRU).**

Emission Point - See Additional Forms for Additional EP Information

Emission Unit	U00001	Emission Pt.	00001			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	18	0	18	1600		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.341	4591.844			

Emission Unit	U00001	Emission Pt.	00002			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	17	0	12	57		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.341	4591.844			

Emission Source / Control - See Additional Forms for Additional Information

Emission Unit	U00001	Emission Source	00001			
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.		
K	01/01/1975	01/01/1975		Vapor Control Unit - McGill		
Design Capacity		Units Code		Desc		
		023		FLARING		
Control Type	Code		Desc			
Waste Feed	Code		Desc			
Waste Type	Code		Desc			

Emission Unit	U00001	Emission Source	00002			
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.		
K	01/01/1989	01/01/1989		Vapor Control Unit - McGill		
Design Capacity		Units Code		Desc		
		023		FLARING		
Control Type	Code		Desc			
Waste Feed	Code		Desc			
Waste Type	Code		Desc			

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Source / Control

Emission Unit	U00001	Emission Source	00003		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
I	01/01/1962	01/01/1962		Gasoline Loading Rack	
Design Capacity	5400	Units Code	115	Desc	gallons per minute
Control Type	Code		Desc		
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Process Information

Emission Unit	U00001	Process	001		
Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units		
	Quantity / Hr	Quantity / Yr	Code	Description	
40400250					
<input type="checkbox"/> Confidential	Operating Schedule		Building	Floor / Location	
<input type="checkbox"/> Operating At Maximum Capacity	Hrs / Day	Days / Yr			

Description

Submerged filling of petroleum liquid or volatile organic liquids as those terms are defined in 6NYCRR Part 229 within cargo tanker trucks. Vapors displaced during the filling process are collected and controlled.

Emission Point Identifier(s)		
Emission Source / Control Identifier(s)		

00001	00002	00003
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Emission Unit Applicable Federal Requirements

Emission Unit		Emission Point				Process		Emission Source			Item
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause		
40	CFR	60	XX	502	e						
40	CFR	60	XX	502	f						
40	CFR	60	XX	502	g						
40	CFR	60	XX	502	j						
40	CFR	60	XX	505	b						
40	CFR	60	XX	505	e	2					

Emission Unit		Emission Point				Process		Emission Source			Item
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause		
40	CFR	63	BBBBBB	11092	a	4					
40	CFR	63	BBBBBB	11092	b	2					

Emission Unit		Emission Point				Process		Emission Source			Item
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause		
40	CFR	63	BBBBBB	11092	a	4					
40	CFR	63	BBBBBB	11092	b	2					

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV Emission Unit Information

Emission Unit	U-00001	Emission Point		Process		Emission Source				
Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	XX	502	h					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 450 mm of water (17.7 inches of water) during product loading.

Facility owner shall have the option to comply with paragraphs 1 or 2 below.

1) A pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with ±2.5 mm of water precision, shall be calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline tank truck.

2) Facility shall maintain a system interlock feature which prohibits loading when gauge pressure in a delivery tank is detected at or above 450 mm of water.

Should the facility utilize a pressure measurement device, an instantaneous reading shall be recorded five times per week and system operation incorporated as standard operating procedure. In the case of installing and maintaining an interlock feature, facility shall certify proper operation annually.

Monitoring Information				
<input checked="" type="checkbox"/> MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
				40CFR 60.503(d)
Parameter				Manufacturer Name/Model No.
Code	Description			
09	PRESSURE			
Limit		Limit Units		
Upper	Lower	Code	Description	
450		380	millimeters of water	
Averaging Method	Code	01	Desc	MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/D
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Compliance Certification

Emission Unit	U-00001	Emission Point		Process		Emission Source				
Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	60	XX	502	i					
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

Venting from the terminal vapor collection system shall not open at a pressure-vacuum less than 450 mm of water (17.7 inches of water).

Facility owner shall have the option to comply with paragraphs 1 or 2 below.

- 1) A pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with ±2.5 mm of water precision, shall be calibrated and installed on the terminal's vapor collection system.
- 2) Facility shall maintain a system interlock feature which prohibits loading when system venting is detected below 450 mm of water.

Should the facility utilize a pressure measurement device, an instantaneous reading shall be recorded five times per week and system operation incorporated as standard operating procedure. In the case of installing and maintaining an interlock feature, facility shall certify proper operation annually.

Monitoring Information				
<input checked="" type="checkbox"/> MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter				Manufacturer Name/Model No.
Code	Description			
09	PRESSURE			
Limit		Limit Units		
Upper	Lower	Code	Description	
450		380	millimeters of water	
Averaging Method	Code	Desc		
	24		MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME	
Monitoring Freq	Code	Desc		
	14		AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION	
Reporting Reqs	Code	Desc		
	15		ANNUALLY (CALENDAR)	

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Compliance Certification

Emission Unit		U-00001		Emission Point		Process		Emission Source		
Rule Citation										
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item
40	CFR	64								
<input checked="" type="checkbox"/> Applicable Federal Requirement										

Description

COMPLIANCE ASSURANCE MONITORING PLAN
 DEC ID#3343800082
 Global Companies - Cargo Terminal

MAINTENANCE AND TROUBLESHOOTING PROCEDURES

Regular inspection and routine maintenance are required in order to ensure proper operation of the vapor control units. In order to maintain the most efficient operation of the units and provide an assurance of compliance with the emission limitation and standards in accordance with 40CFR Part 64, Global Companies has instituted a regular inspection and maintenance procedure for the vapor control units. This procedure also conforms to the recommended general maintenance procedures of the manufacturer. This inspection and maintenance procedure is as outlined below.

Daily Inspections:

Inspections are done each day for the following:

1. Check to ensure that all gauges are reading within normal ranges.
2. Check to ensure that no unusual noises are coming from the operating equipment.
3. Visually inspect propane tank ~~and air compressor.~~

Weekly Inspections:

Inspections are done once per week for the following:

1. Check for normal levels in the gauge glasses on the propane tank.
2. Verify that all annunciation lamps work.
 - a. Push the lamp test pushbutton on the main control panel. All of the lights should illuminate.
 - b. Replace the lights that do not turn on.
 - ~~3. Check the hydroseal water level.~~

Monthly Inspections:

Inspections are done once each months for the following:

1. Check operation of the front panel lights.
2. Check propane tanks and propane gauges.
- ~~3. Check air compressor and all air gauges for proper operation.~~
- ~~4. Gauge the level in the knock-out tank.~~
5. Check the shutdown circuit for proper operation by creating a fault to ensure proper system shutdown. A detailed description of how to check each shutdown is provided in the "Startup" Section of the unit manual.

Inspection records shall be kept at the Terminal Managers office.

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Compliance Certification

Monitoring Information				
<input checked="" type="checkbox"/> RECORD KEEPING/MAINTENANCE PROCEDURES				
Work Practice		Process Material		Ref Test Method
Type	Code	Description		
Parameter			Manufacturer Name/Model No.	
Code	Description			
Limit		Limit Units		
Upper	Lower	Code	Description	
Averaging Method	Code	Desc		
Monitoring Freq	Code	14	Desc	AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Reqs	Code	15	Desc	ANNUALLY (CALENDAR)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Description

Emission Unit	U00005
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Six (6) storage tanks of different volumes capable of storing petroleum liquid or volatile organic liquids (gasoline / ethanol) as those terms are defined in 6NYCRR Part 229. These tanks are external fixed roof equipped with internal floating roofs. ~~Tank identifications with associated operating capacities include:~~

- ~~17414 - 2,856,420 gallons~~
- ~~30531 - 1,367,100 gallons~~
- ~~30532 - 2,784,180 gallons~~
- ~~30533 - 700,980 gallons~~
- ~~30534 - 4,983,930 gallons~~
- ~~30535 - 4,793,000 gallons~~

~~The remaining tanks onsite are used to store distillate and or residual fuels which are not subject to 6NYCRR 229, 40CFR 60-K and 40CFR 63-BBBBBB (effective January 2011).~~

Emission Point

Emission Unit	U00005	Emission Pt.	00414			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	35	1	12	57		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.381	4591.881			

Emission Unit	U00005	Emission Pt.	00531			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	30	1	12	57		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.367	4591.965			

Emission Unit	U00005	Emission Pt.	00532			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	48	1	12	57		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.362	4591.928			

Emission Unit	U00005	Emission Pt.	00533			
Ground Elev (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp (°F)	Cross Section	
					Length (in)	Width (in)
34	48	1	12	57		
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal
		582.317	4591.712			

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Point

Emission Unit	U00005	Emission Pt.	00534								
Ground Elev (ft)	34	Height (ft)	48	Height Above Structure (ft)	1	Inside Diameter (in)	12	Exit Temp (°F)	57	Cross Section	
										Length (in)	Width (in)
Exit Velocity (FPS)		Exit Flow (ACFM)		NYTM (E) (KM)	582.364	NYTM (N) (KM)	4591.65	Building		Distance to Property Line (ft)	
											Date of Removal

Emission Unit	U00005	Emission Pt.	00535								
Ground Elev (ft)	34	Height (ft)	48	Height Above Structure (ft)	1	Inside Diameter (in)	12	Exit Temp (°F)	57	Cross Section	
										Length (in)	Width (in)
Exit Velocity (FPS)		Exit Flow (ACFM)		NYTM (E) (KM)	582.632	NYTM (N) (KM)	4593.024	Building		Distance to Property Line (ft)	
											Date of Removal

Emission Source / Control

Emission Unit	U00005	Emission Source	17414								
Source Type		Date of Construction		Date of Operation		Date of Removal		Manufacturer's Name/Model No.			
	I							asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe			
Design Capacity	2856420	Units Code			15	Desc		gallons			
Control Type	Code					Desc					
Waste Feed	Code					Desc					
Waste Type	Code					Desc					

Emission Unit	U00005	Emission Source	30531								
Source Type		Date of Construction		Date of Operation		Date of Removal		Manufacturer's Name/Model No.			
	I							asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe			
Design Capacity	1367100	Units Code			15	Desc		gallons			
Control Type	Code					Desc					
Waste Feed	Code					Desc					
Waste Type	Code					Desc					

Emission Unit	U00005	Emission Source	30532								
Source Type		Date of Construction		Date of Operation		Date of Removal		Manufacturer's Name/Model No.			
	I							asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe			
Design Capacity	2784180	Units Code			15	Desc		gallons			
Control Type	Code					Desc					
Waste Feed	Code					Desc					
Waste Type	Code					Desc					

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Source / Control

Emission Unit	U00005	Emission Source	30533		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
				asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe	
Design Capacity	700980	Units Code	15	Desc	gallons
Control Type	Code		Desc		
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Emission Unit	U00005	Emission Source	30534		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
				asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe	
Design Capacity	4983930	Units Code	15	Desc	gallons
Control Type	Code		Desc		
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Emission Unit	U00005	Emission Source	30535		
Source Type	Date of Construction	Date of Operation	Date of Removal	Manufacturer's Name/Model No.	
				asoline / Gasoline Additive Storage Tank - Conservation Vent Equippe	
Design Capacity	4793000	Units Code	15	Desc	gallons
Control Type	Code		Desc		
Waste Feed	Code		Desc		
Waste Type	Code		Desc		

Process Information

Emission Unit	U00005	Process	006		
Source Classification Code (SCC)	Total Thruput		Thruput Quantity Units		
	Quantity / Hr	Quantity / Yr	Code	Description	
40400116					
<input type="checkbox"/> Confidential		Operating Schedule		Building	Floor / Location
<input type="checkbox"/> Operating At Maximum Capacity		Hrs / Day	Days / Yr		

Description

Storage of petroleum liquid or volatile organic liquids as those terms are defined in 6NYCRR Part 229.

Emission Point Identifier(s)					
Emission Source / Control Identifier(s)					
17414	30531	30532	30533	30534	30535

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Section IV - Emission Unit Information

Emission Unit Applicable Federal Requirements

Emission Unit		U-00005			Emission Point		Process		Emission Source		
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item	
40	CFR	63	BBBBBB	11092	e	1					
6	NYCRR	229		3	a						

Emission Unit		U-00005			Emission Point		Process		OO6	Emission Source		30535
Title	Type	Part	Sub Part	Section	Sub Division	Parag	Sub Parag	Clause	Sub Clause	Item		
40	CFR	60	Kb	112b	a	1						
40	CFR	60	Kb	113b	a							
40	CFR	60	Kb	115b	a							
40	CFR	60	Kb	116b	a							

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Supporting Documentation

- Aerial Photo (__ / __ / ____)
- Air Quality Model (__ / __ / ____)
- Air State Facility Permit (__ / __ / ____)
- Air Title V Facility Permit (__ / __ / ____)
- Alternative Fuel Monitoring Schedule (__ / __ / ____)
- Ambient Air Monitoring Plan (__ / __ / ____)
- Analysis of Contemporaneous Emission Increase/Decrease (__ / __ / ____)
- Article 11, Title 5 Permit for Interference with Fish & Wildlife (__ / __ / ____)
- Authorized Agent Letter (__ / __ / ____)
- BACT Demonstration (__ / __ / ____)
- Baseline Period Demonstration (__ / __ / ____)
- Beneficial Use Determination (BUD) (__ / __ / ____)
- Blasting Chart - Ground Vibration Limits (__ / __ / ____)
- Building Identification Table (__ / __ / ____)
- Calculations (__ / __ / ____)
- Capping Letter/Package (__ / __ / ____)
- Certificate of Capacity (Resource Recovery Facility) (__ / __ / ____)
- Compliance Assurance Monitoring Plan (CAM) (__ / __ / ____)
- Confidentiality Justification (__ / __ / ____)
- Construction and Demolition Debris Tracking Document (__ / __ / ____)
- Construction Detail Drawings (__ / __ / ____)
- Continuous Emissions Monitoring Plans/QA/QC (__ / __ / ____)
- Control Equipment Layout (__ / __ / ____)
- Custom Schedule for Fuel Nitrogen and Sulfur Monitoring (__ / __ / ____)
- Drawings/Blueprints (__ / __ / ____)
- Elevations/Sections (__ / __ / ____)
- Emission Inventory Report (__ / __ / ____)
- Emission Survey (__ / __ / ____)
- Emission Unit Summary (__ / __ / ____)
- EPA Memo Re: Technical Infeasibility of Monitoring Nitrogen in Fuel (__ / __ / ____)
- Episode Action Plan (__ / __ / ____)
- Equipment Manufacturers Information (__ / __ / ____)
- ERC Quantification (__ / __ / ____)
- Exemption Related Document (__ / __ / ____)
- Existing Certificates to Operate and/or Permits to Construct (__ / __ / ____)
- Existing Consent Order (__ / __ / ____)
- Existing Methane Migration & Recovery Well Plan (__ / __ / ____)
- Existing Permit Figures (__ / __ / ____)
- Facility Location Map (__ / __ / ____)
- Facility-Wide Operating Permit Submittal Schedule (__ / __ / ____)
- Fugitive Dust Control Plan (__ / __ / ____)
- General Flow Diagram (__ / __ / ____)
- Generating Plant Site & Section Sheet (__ / __ / ____)
- LAER Demonstration (__ / __ / ____)
- Letter of Intent to Commence Work (__ / __ / ____)

DEC ID: 3334800082

Application ID: 333480008200010

Renewal Number: 4

Facility: GLOBAL COMPANIES - CARGO TERMINAL

Jun 29, 2020 12:02 pm

Supporting Documentation

- List of Exempt Activities (form attached) (__ / __ / ____)
- MACT Demonstration (__ / __ / ____)
- Methods Used To Determine Compliance (form attached) (__ / __ / ____)
- Miscellaneous Attachments - Not Otherwise Specified (__ / __ / ____)
- Miscellaneous Correspondence (__ / __ / ____)
- Mitigation Planting Plan (__ / __ / ____)
- MSDS Information Sheets (__ / __ / ____)
- Non-CEM: Custom Monitoring, Recordkeeping and/or Reporting Plan (__ / __ / ____)
- Notice Covenant (__ / __ / ____)
- Notice of Intent to Commence Work (__ / __ / ____)
- NOx RACT Compliance Plan (__ / __ / ____)
- NOx RACT Operating Plan (__ / __ / ____)
- Opacity Compliance Plan (__ / __ / ____)
- Operational Flexibility: Desc of Alternative Operating Scenarios and Protocols (__ / __ / ____)
- P.E. Certification (form attached) (__ / __ / ____)
- Permit Sign (__ / __ / ____)
- Pesticide Treatment Area Map (__ / __ / ____)
- Photograph(s) (__ / __ / ____)
- Plot Plan (__ / __ / ____)
- Process Flow Diagram(s) (__ / __ / ____)
- Process Material Specification Data (__ / __ / ____)
- Process Operation Log Sheet(s) (__ / __ / ____)
- Project Location Map (__ / __ / ____)
- PSD Permit Correlation Tables (__ / __ / ____)
- RACT Demonstration (__ / __ / ____)
- Regulatory Analysis Summary (__ / __ / ____)
- Results of SEQR Review (__ / __ / ____)
- Seed Mixture Recommendations (__ / __ / ____)
- Short Environmental Assessment Form (__ / __ / ____)
- Site Plan (__ / __ / ____)
- Solid Waste Annual Report Form (__ / __ / ____)
- SPDES Permit (__ / __ / ____)
- Stack Test Protocols/Reports (__ / __ / ____)
- Title IV Acid Rain Permit Application (__ / __ / ____)
- Transfer Form (__ / __ / ____)
- VOC RACT Compliance Plan (__ / __ / ____)
- Wood Waste Specifications (__ / __ / ____)

**New York State Department of Environmental Conservation
Air Permit Application**



DEC ID									
-									

Facility Compliance Certification										<input type="checkbox"/> Continuation Sheet(s)
Rule Citation										
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause	
Applicable Federal Requirement			Capping	CAS Number		Contaminant Name				
State Only Requirement										
Monitoring Information										
Ambient Air Monitoring			Work Practice Involving Specific Operations			Record Keeping/Maintenance Procedures				
Description										
Work Practice	Process Material				Reference Test Method					
Type	Code	Description								
Parameter				Manufacturer's Name/Model Number						
Code	Description									
Limit			Limit Units							
Upper	Lower	Code	Description							
Averaging Method			Monitoring Frequency			Reporting Requirements				
Code	Description		Code	Description		Code	Description			

Facility Emissions Summary					<input type="checkbox"/> Continuation Sheet(s)
CAS Number	Contaminant Name	Potential to Emit		Actual (lbs/yr)	
		(lbs/yr)	Range Code		
ONY075 - 00 - 5	PM-10				
ONY750 - 02 - 5	PM-2.5				
007446 - 09 - 5	Sulfur Dioxide				
ONY210 - 00 - 0	Oxides of Nitrogen				
000630 - 08 - 0	Carbon Monoxide				
007439 - 92 - 1	Lead (elemental)				
ONY998 - 00 - 0	Total Volatile Organic Compounds				
ONY100 - 00 - 0	Total Hazardous Air Pollutants				
ONY750 - 00 - 0	Carbon Dioxide Equivalent				

New York State Department of Environmental Conservation
Air Permit Application



DEC ID									
-									

Section IV - Emission Unit Information

Emission Unit Description										<input type="checkbox"/> Continuation Sheet(s)
Emission Unit	-									

Building Information					<input type="checkbox"/> Continuation Sheet(s)	
Building ID	Building Name			Length (ft)	Width (ft)	Orientation

Emission Point Information							<input type="checkbox"/> Continuation Sheet(s)
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control Information							<input type="checkbox"/> Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number
ID	Type				Code	Description	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number
ID	Type				Code	Description	
Design Capacity	Design Capacity Units			Waste Feed		Waste Type	
	Code	Description		Code	Description	Code	Description

New York State Department of Environmental Conservation
 Air Permit Application



DEC ID									
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Process Information							Continuation Sheet(s)			
Emission Unit	-						Process			
Description										
Source Classification Code (SCC)		Total Throughput		Throughput Quantity Units						
		Quantity/Hr	Quantity/Yr	Code	Description					
Confidential Operating at Maximum Capacity			Operating Schedule		Building	Floor/Location				
			Hours/Day	Days/Year						
Emission Point Identifier(s)										
Emission Source/Control Identifier(s)										
Emission Unit	-						Process			
Description										
Source Classification Code (SCC)		Total Throughput		Throughput Quantity Units						
		Quantity/Hr	Quantity/Yr	Code	Description					
Confidential Operating at Maximum Capacity			Operating Schedule		Building	Floor/Location				
			Hours/Day	Days/Year						
Emission Point Identifier(s)										
Emission Source/Control Identifier(s)										

New York State Department of Environmental Conservation
Air Permit Application Form



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	1	7					
<input checked="" type="checkbox"/> Applicable Federal Requirement <input type="checkbox"/> State Only Requirement			<input checked="" type="checkbox"/> Capping		CAS No.		Contaminant Name		
					VOC				
Monitoring Information									
<input type="checkbox"/> Continuous Emission Monitoring <input type="checkbox"/> Intermittent Emission Testing <input type="checkbox"/> Ambient Air Monitoring				<input checked="" type="checkbox"/> Monitoring of Process or Control Device Parameters as a Surrogate <input type="checkbox"/> Work Practice Involving Specific Operations <input type="checkbox"/> Record Keeping/Maintenance Procedures					
Description									
<p>The Vapor Recovery Unit must capture gasoline vapors during loading of gasoline transport vehicles and must condense, absorb, adsorb, or combust gasoline vapors so emissions do not exceed 2 milligrams per liter.</p>									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Manufacturer Name/Model No.							
Code	Description								
	VOC								
Limit			Limit Units						
Upper	Lower	Code	Description						
2		318	milligrams per liter						
Averaging Method		Monitoring Frequency		Reporting Requirements					
Code	Description	Code	Description	Code	Description				
20	Per Test Method	14	See Description	15	Annually (Calendar)				

**New York State Department of Environmental Conservation
Air Permit Application**



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

List of Exempt Activities (from NYCRR Part 201)

Instructions for Completing Table

Applicants for Title V permits are required to provide a list of exempt activities in the application form. This includes all process or production units and other emission generating activities which are considered exempt as defined by 6 NYCRR Part 301-3.2. Completion of this table fulfills that requirement.

To complete the table, provide the following information for each exempt activity that occurs at the facility defined by this application:

- a. The approximate number of each listed activity, and,
- b. For location of the activity enter the building ID(s) used in the main application form. Use the building name if a building ID(s) has not been assigned.

If a listed activity does not occur at the facility, leave blank.

Combustion

Rule Citation	Description	No. of Activities (approx.)	Building Location
201-3.2(c)			
(1)	stationary or portable combustion installations where the furnace has a maximum rated heat input capacity <10mmBtu/hr burning fossil fuels, other than coal, and coal and wood fired stationary combustion units with a maximum heat input <1mmBtu/hr. - this includes unit space heaters, which burn waste oils as defined in 6 NYCRR Part 225-2 and generated on-site, alone or in conjunction with used oil generated by a do-it-yourself oil changer as defined in 6 NYCRR Subpart 374-2	1	
(2)	stationary or portable combustion installations located outside of any severe ozone non-attainment areas, where the furnace has a maximum rated heat input capacity <20 mmBtu/hr burning fossil fuels other than coal, where the construction of the combustion installation commenced before 6/8/89		
(3)(i)	diesel or natural gas powered stationary or portable internal combustion (IC) engines within any severe ozone non-attainment area having a maximum mechanical power rating <225bhp		
(3)(ii)	diesel or natural gas powered stationary or portable IC engines located outside of any severe ozone non-attainment areas having a maximum mechanical power rating <400 bhp		
(3)(iii)	gasoline powered IC engines having a maximum mechanical power rating <50bhp		
(4)	stationary or portable IC engines which are temporarily located at a facility for a period ≤30 days/calendar year, where the total combined maximum mechanical power rating for all affected units is <1000bhp		
(5)	gas turbines with a heat input at peak load <10mmBtu/hr		
(6)	emergency power generating units installed for use when the usual sources of heat, power, water and lighting are temporarily unobtainable, or which are installed to provide power <500 hrs/yr and excluding those units under contract w/ a utility to provide peak shaving generation to the grid	3	

Combustion-Related

(7)	non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams	1	
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DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

List of Exempt Activities (from NYCRR Part 201)

Agricultural			
Rule Citation	Description	No. of Activities (approx.)	Building Location
201-3.2(c)			
(8)	feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emission control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million US bushels, and grain storage elevators with capacities above 1 million bushels		
(9)	equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators and electrical power generating equipment		
Commercial-Food Service Industries			
(10)	flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device		
(11)	emissions from flavorings, added to a food product where such flavors are manually added to the product		
Commercial-Graphic Arts			
(12)	screen printing inks/coatings or adhesives which are applied by a hand-held squeegee (i.e. one that is not propelled thru the use of mechanical conveyance and is not an integral part of the screen printing process)		
(13)	graphic arts processes at facilities located outside the NYC metropolitan area whose facility-wide total emissions or VOC's from inks, coatings, adhesives, fountain solutions and cleaning solutions does not exceed 20 lbs/day		
(14)	graphic label and/or box labeling operations where the inks are applied by stamping or rolling		
(15)	graphic arts processes which are specifically exempted from regulation under Part 234 with regard to emissions of VOC's which are not given an A rating		
Commercial-Other			
(16)	gasoline dispensing sites with an annual thruput <120,000 gal located outside any severe non-attainment areas		
(17)	surface coating related operations which use less than 25 gal/mo of coating materials (paints) and cleaning solvents, combined, subject to the following: - the facility is located outside of severe ozone non-attainment area - all abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices		
(18)	abrasive cleaning operations which exhaust to an appropriate emission control device		
(19)	ultraviolet curing operations		
Municipal/Public Health Related			
(20)	ventilating systems for landfill gases, where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid Part 360 permit, or Order on Consent		



DEC ID
3 - 3348 - 00082

List of Exempt Activities (from NYCRR Part 201)

Storage Vessels			
Rule Citation 201-3.2(c)	Description	No. of Activities (approx.)	Building Location
(21)	distillate and residual fuel oil storage tanks with storage capacities <300,000 bbls	5	
(22)	pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of VOC's to the outdoor atmosphere		
(23)	external floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall		
(24)(i)	external floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure <4.0 psi (27.6 kPa), are of welded construction and are equipped with a <i>metallic-type shoe seal</i>		
(24)(ii)	external floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure <4.0 psi (27.6 kPa), are of welded construction and are equipped with a <i>liquid-mounted foam seal</i>		
(24)(iii)	external floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure <4.0 psi (27.6 kPa), are of welded construction and are equipped with a <i>liquid-mounted liquid-filled type seal</i>		
(24)(iv)	external floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure <4.0 psi (27.6 kPa), are of welded construction and are equipped with a <i>control equipment or device equivalent to those previously listed in items (24) (i) thru (iii)</i>		
(25)	storage tanks, with capacities <10,000 gal, except those subject to either Part 229 or Part 233	7	
(26)	horizontal petroleum storage tanks		
(27)	storage silos storing solid materials, provided all such silos are exhausted thru an appropriate emission control device		
Industrial			
(28)	processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before 8/31/83, where water is used other than for dust suppression, such as wet conveying, separating and washing		
(29)(i)	all processing equipment at sand and gravel mines or quarries that <i>permanent or fixed installations with a maximum rated processing capacity ≤25 tph of minerals</i>		
(29)(ii)	all processing equipment at sand and gravel mines or quarries that <i>mobile (portable) installations with a maximum rated processing capacity ≤150 tph of minerals</i>		
(30)	mobile (portable) stone crushers with maximum rated capacities ≤150 tph of minerals which are located at nonmetallic mineral processing operations		
(31)	surface coating operations which are specifically exempted from regulation under Part 228, with regard to emissions of VOC's which are not given an A rating		
(32)	pharmaceutical tablet branding operations		
(33)	thermal packaging operations, including but not limited to, thermage labelling, blister packing, shrink wrapping, shrink banding, and carton gluing		



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

List of Exempt Activities (from NYCRR Part 201)

Industrial (continued)			
Rule Citation 201-3.2(c)	Description	No. of Activities (approx.)	Building Location
(34)	powder coating operations		
(35)	all tumblers used for the cleaning and/or deburring of metal products without abrasive blasting		
(36)	presses used exclusively for molding or extruding plastics except where halogenated carbon compounds or hydrocarbon solvents are used as foaming agents		
(37)	concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted thru fabric filters, and the batch drop point is controlled by a shroud or other emission control device		
(38)	cement storage operations where materials are transported by screw or bucket conveyors		
(39)(i)	non-vapor phase cleaning equipment with an open surface area ≤ 11 sq ft and an internal volume ≤ 93 gal or, having an organic solvent loss ≤ 3 gal/day		
(39)(ii)	non-vapor phase cleaning equipment using only organic solvents with an initial boiling point $\geq 300^{\circ}\text{F}$ at atmospheric pressure		
(39)(iii)	non-vapor phase cleaning equipment using materials with a VOC content $\leq 2\%$ by volume		
Miscellaneous			
(40)	ventilating and exhaust systems for laboratory operations		
(41)	exhaust or ventilating systems for the melting of gold, silver, platinum, and other precious metals		
(42)	exhaust systems for paint mixing, transfer, filling or sampling and/or solvent storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use		
(43)	exhaust systems for solvent transfer, filling or sampling and/or solvent storage rooms provided the solvent stored within these locations are stored in closed containers when not in use		
(44)	research and development activities, including both stand-alone and activities within a major stationary source, until such time as the Administrator completes a rulemaking to determine how the permitting program should be constructed for these activities		
(45)	the application of odor counteractants and/or neutralizers		

**New York State Department of Environmental Conservation
Air Permit Application**



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

METHODS USED TO DETERMINE COMPLIANCE		
Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance and Corresponding Date
U-00001	40 CFR 60.502 (e), NSPS Subpart XX	Annual Compliance Certification, January 30
U-00001	40 CFR 60.502 (f), NSPS Subpart XX	Truck Loading Compatibility
U-00001	40 CFR 60.502 (g), NSPS Subpart XX	Vapor collection connection required
U-00001	40 CFR 60.502 (h), NSPS Subpart XX	Annual Compliance Certification, January 30
U-00001	40 CFR 60.502 (i), NSPS Subpart XX	Annual Compliance Certification, January 30
U-00001	40 CFR 60.502 (j), NSPS Subpart XX	Annual Compliance Certification, January 30

**New York State Department of Environmental Conservation
Air Permit Application**



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

METHODS USED TO DETERMINE COMPLIANCE		
Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance and Corresponding Date
U-00001	40 CFR 60.505 (b), NSPS Subpart XX	Annual Compliance Certification, January 30
U-00001	40 CFR 60.502 (e) (2), NSPS Subpart XX	Annual Compliance Certification, January 30
U-00001	40 CFR 63.11086 (f), Subpart BBBBBB	Annual Compliance Certification, January 30
U-00001	40 CFR 63.11089 , Subpart BBBBBB	Annual Compliance Certification, January 30
U-00001	40 CFR 63.11092 (a) (4), Subpart BBBBBB	Annual Compliance Certification, January 30
U-00001	40 CFR Part 64	Annual Compliance Certification, January 30

**New York State Department of Environmental Conservation
Air Permit Application**



DEC ID											
3	-	3	3	4	8	-	0	0	0	8	2

METHODS USED TO DETERMINE COMPLIANCE		
Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance and Corresponding Date
U-00005	6 NYCRR 229.3 (a)	Internal floating roofs required in fixed roof tanks storing petroleum products
U-00005	40 CFR 63.11086 (f) Subpart BBBBBB	Annual Compliance Certification, January 30
U-00005	40 CFR 63.11087 Subpart BBBBBB	Annual Compliance Certification, January 30
U-00005	40 CFR 63.11087 (f) Subpart BBBBBB	Annual Compliance Certification, January 30
U-00005	40 CFR 63.11092 (e) (1) Subpart BBBBBB	Internal floating roof inspections

COVER

Global Companies LLC

**PRODUCT TERMINAL EMISSION REPORT
SIC CODE 5171**

**Facility
Newburgh Cargo**

**Report Purpose
Title V Air Permit Modification & Renewal**

**Version Date
8/27/2020**

EMIS SUM

Emission Unit Overview

Description	VOC			HAP			SINGLE HAP Xylene (-m)		
	Tank Emissions	Tank Landing Emissions	TOTAL TANK EMISSIONS	Tank Emissions	Tank Landing Emissions	TOTAL TANK EMISSIONS	Tank Emissions	Tank Landing Emissions	TOTAL TANK EMISSIONS
Gasoline Storage (RFG)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Gasoline Loading (RFG)									
Truck Loading									
Rail Loading									
Gasoline Storage (CNV)									
Tank 17414	2.938	4.094	7.032	0.059	0.082	0.141	0.004	0.005	0.009
Tank 30531	1.295	1.465	2.761	0.026	0.029	0.055	0.002	0.002	0.004
Tank 30532	1.791	2.991	4.781	0.036	0.060	0.096	0.002	0.004	0.006
Tank 30534	6.117	5.370	11.487	0.122	0.107	0.230	0.008	0.007	0.015
Tank 30533	1.433	0.748	2.180	0.029	0.015	0.044	0.002	0.001	0.003
Tank 30535	0.100	5.370	5.470	0.002	0.107	0.109	0.000	0.007	0.007
Tank Cleaning									
Gasoline Loading (CNV)									
VRU Loading Fugitive	0.000		0.000	0.000		0.000	0.000		0.000
VRU Loading Stack	0.910		0.910	0.018		0.018	0.001		0.001
Flare Loading Fugitive	0.167		0.167	0.003		0.003	0.000		0.000
Flare Loading Stack	1.669		1.669	0.033		0.033	0.002		0.002
Distillate Service									
Tank 17413	1.886		1.886	0.126		0.126	0.083		0.083
Tank 17415	0.515		0.515	0.034		0.034	0.023		0.023
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
	0.000		0.000	0.000		0.000	0.000		0.000
Truck Loading	7.802		7.802	0.679		0.679	0.450		0.450
Rail Loading	0.000		0.000	0.000		0.000	0.000		0.000
Aviation Gasoline Storage									
Aviation Gasoline Loading									
Other									
Spills	0.000		0.000	0.000		0.000	0.000		0.000
RFG Equipment Fugitives	0.000		0.000	0.000		0.000	0.000		0.000
CNV Equipment Fugitives	0.270		0.270	0.029		0.029	0.009		0.009
Additive Tank Emissions	0.059		0.059	0.059		0.059	0.043		0.043
Product water/mixture	0.000		0.000	0.000		0.000	0.000		0.000
TOTAL OF SOURCES			46.99			1.66			0.66
Total VOCs	46.99								
Total HAPs	1.66								
Total Xylene (-m)	0.66								

TANK STORAGE, CLEANING AND LOADING RACK

RFG Tank No.	lb/yr	Benzene	Ethylbenzene	Hexane	Isooctane	MTBE	Toluene	Xylene (-m)	Biphenyl	Cresol (-o)	Cumene	Naphthalene	0	Page Total Hap	Landing Total Hap	Total HAP
		-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-	-
Gasoline Loading (RFG)																
Truck Loading		0	0	0	0	0	0	0						-	-	-
Rail Loading														-	-	-
Gasoline Storage (Conv)																
Tank 17414		26	2	24	30	N/A	28	8	N/A	N/A	N/A	N/A	N/A	117	164	281
Tank 30531		12	1	11	13		13	3						52	59	110
Tank 30532		16	1	15	18		17	5						72	120	191
Tank 30534		54	4	50	61		59	16						245	215	459
Tank 30533		13	1	12	14		14	4						57	30	87
Tank 30535		1	0	1	1		1	0						4	215	219
Gasoline Loading (CNV)																
VRU Loading Fugitive		0	0	0	0	0	0	0						-	-	-
VRU Loading Stack		8	1	7	9	0	9	2						36	-	36
Flare Loading Fugitive		1	0	1	2	0	2	0						7	-	7
Flare Loading Stack		15	1	14	17	0	16	4						67	-	67
Distillate Service																
Tank 17413		6	9	1	N/A	N/A	68	166	0	0	0	2	0	251	-	251
Tank 17415		2	2	0			18	45	0	0	0	0	0	69	-	69
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
		0	0	0			0	0	0	0	0	0	0	-	-	-
Truck Loading		33.0	48.5	0.0	N/A	N/A	368.4	900.6	0.0	0.0	0.0	8.3	0.0	1,359	-	1,359
Rail Loading		0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
Av Gasoline Storage																
Av Gasoline Loading																
Spills		0	0	0	0	N/A	0	0	0	0	0	0	0	-	-	-
RFG Equipment Fugitives														-	-	-
CNV Equipment Fugitives		5	4	3	10	0	18	18	0	0	0	0	0	58	-	58
Additive Tank Emissions			31					86						117	-	117
Product water/mixture		0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
Total of all Sources														2,510	801	3,311
	lb/yr	369	117	300	376	0	826	1312	0	0	0	10	0			
	Tons/yr	0.18	0.06	0.15	0.19	-	0.41	0.66	-	-	-	0.01	-			
		3,310.80														
		1.66														

EMIS SUM

TANK LANDINGS

RFG Tank No.	Lb/yr											Page	
	Benzene	Ethylbenzene	Hexane	Isocotane	MTBE	Toluene	Xylene (-m)	Biphenyl	Cresol (-o)	Cumene	Naphthalene	0 Total Hap	
0	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	-
0	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	-
Gasoline Service (Conv)													
Tank 17414	36	3	33	41	-	40	11	N/A	N/A	N/A	N/A	N/A	164
Tank 30531	13	1	12	15	-	14	4						59
Tank 30532	27	2	24	30	-	29	8						120
Tank 30534	48	3	44	54	-	52	14						215
Tank 30533	7	0	6	8	-	7	2						30
Tank 30535	48	3	44	54	-	52	14						215
Tank Cleaning													
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
													-
TOTAL OF SOURCES	lb/yr	178	13	163	201	-	194	53	-	-			801
	Tons/yr	0.089	0.006	0.081	0.101	0.000	0.097	0.026					0.401
Total (inc Landings)		801.04											
		0.40											

INPUTS

Title V Air Permit Modification & Renewal

	Stored	VRU loaded	Flare loaded		gal	Check
Conventional Gasoline	550,000,000	545,000,000	5,000,000		-	545,000,000
Denatured Ethanol	-				-	
% of Gasoline as RFG (MTBE) (2)						0%
*** Total Gasoline (auto fuel)	550,000,000	545,000,000	5,000,000		-	
Aviation Gasoline	-	-			-	
Distillate	1,100,000,000	1,100,000,000			-	1,100,000,000
Total Additive Used	Actual	Calculated		Product-water		
		164,500	gal			gal

RFG Gasoline Tanks

Tk. No.	Dia	Leg ht	no land	land av	Vol bbls	Volume gals	Actual		Calculated		VOC's from Tanks(lb/yr)						
							Thruputs (2)	Turnovers	Thruputs	gal/day	Tk No	Standing	Working	Total			
						-	-		-								
							Average Turnovers		0.0								

Conventional Gasoline Tanks

Tk. No.	Dia	Leg ht	no land	land avg d	Vol bbls	Volume gals	Actual		Calculated		VOC's from Tanks (lb/yr)			
							Thruputs (2)	Turnovers	Thruputs	gal/day	Tk No	Standing	Working	Total
17414	117	4	3	2.0	52,150	2,190,300		37.1	81,270,808	222,660	17414	5705	172	5,877
30531	70	4	3	2.0	26,425	1,109,850		37.1	41,180,846	112,824	30531	2455	136	2,591
30532	100	4	3	2.0	53,850	2,261,700		37.1	83,920,096	229,918	30532	3388	194	3,582
30534	134	4	3	2.0	97,925	4,112,850		37.1	152,606,786	418,101	30534	11962	272	12,233
30533	50	4	3	2.0	14,000	588,000		37.1	21,817,667	59,775	30533	2763	102	2,865
30535	134	4	3	2.0	108,575	4,560,150		37.1	169,203,797	463,572	30535	100	100	200
						14,822,850	-		550,000,000					
							Average Turnovers		37.1		27,347			

*Modeled with Ethanol

INPUTS

Distillate Tanks

Tk. No.	Dia		vol bbls	Volume gals	Actual Thruputs (2)	Turnover's	Calculated Thruputs	gal/day
17413	117	K	63,630	2,672,460		302.4	808,139,938	2,214,083
17415	78		22,980	965,160		302.4	291,860,062	799,617
Pct Top Loading Distillate			0%	3,637,620	-	605	1,100,000,000	
							Average Turnovers	302.4

VOC's from Tanks (lb/yr)			
Tk No	Standing	Working	Total
17413	122	3650	3,771
17415	27	1002	1,030
			4,801.3

Additive Tanks

Tk. No.	Dia		vol bbls	Volume gals	Actual Thruputs (2)	Turnovers	Calculated Thruputs	gal/day
10454A			190	8,000		3.3	26,399	72
10455A			190	8,000		3.3	26,399	72
13061A			190	8,000		3.3	26,399	72
13316A			190	8,000		3.3	26,399	72
10456			13	550		3.3	1,815	5
10457			24	1,000		3.3	3,300	9
10458			190	8,000		3.3	26,399	72
10459B			190	8,000		3.3	26,399	72
10460			7	300		3.3	990	3
			-				-	0
			-					
			-					
			49,850	0	Total Additive		164,500	

VOC's from Tanks (lb/yr)			
Tk No	Standing	Working	Total
10454A	13	6	19
10455A	13	6	19
13061A	13	6	19
13316A	13	6	19
10456	1	0	1
10457	1	1	2
10458	13	6	19
10459B	13	6	19
10460	1	0	1
			117

Product Water/Mixture tanks

Tk. No.	Dia		vol bbls	Volume gals	Actual Thruputs (2)	Turnovers	Calculated Thruputs	gal/day

VOC's from Tanks (lb/yr)			
Tk No	Standing	Working	Total

Gasoline Loading Control

Control Device Level	2.0 mg/l	VRU
Truck Rack	80.0 mg/l	Flare

Vru No.		Total lb/yr	Hrs/yr
Truck	VOC	3,672	
	HAP	73	
	S'HAP	-	

INPUTS

Speciation Data from

Tank No. >	Distillate Tank	Gas tank	Additive tank
Benzene	17413	30534	10454A
Ethylbenzen	6.06	57.98	
Hexane	8.92	7.59	5
Isooctane	1.25	51.24	
MTBE		70.9	
Toluene	67.71	76.95	
Xylene (-m)	165.54	34.74	13.91
Biphenyl			
Cresol (-o)			
Cumene			
Naphthalene	1.52		
Total VOC	2,868.22	12,233	18.91

Data used for Calculated Fugitives	
Tanks	Bays
Gasoline (RFG)	0
Gasoline (CNV)	6
Distillate (DIST)	2

0.1 fraction of the fugitive valve/flange count assigned to the vapor phase

Using Calculated Values

If using 'Actual Values' then leave table empty

	RFG in Liquid Phase		RFG in Vapor Phase		CNV in Liquid Phase		CNV Gas Phase		DIS	
	Calculated	Actual	Calculated	Actual	Calc	Actual	Calc	Actual	Calc	Actual
Valves	-	-	-	-	135		15		126	
Pumps	-				5				5	
Other										
Loading Arm Valve	-				12				12	
Flanges	-	-	-	-	504	-	54	-	472	-

Tanks CNV

	17414	30531	30532	30,534	30,533	30,535	-	-	-	Total Thruput		
Actual Thruput	-	-	-	-	-	-	-	-	-	-	gal/yr	
Calculated Thruput	81,270,808	41,180,846	83,920,096	152,606,786	21,817,667	169,203,797	-	-	-	550,000,000	gal/yr	
Throughput (Bbl / Yr):	1,935,019	980,496	1,998,098	3,633,495	519,468	4,028,662	-	-	-	13,095,238	bbl/yr	
	Lb / Year	Lb / Year	Lb / Year	Lb / Year							Lb / Year	Tons /Year
Total VOC**	5,877	2,591	3,582	12,233	2,865	200	-	-	-		27,347	13.67
Benzene	26	12	16	54	13	1	-	-	-		121	0.06
Ethylbenzene	2	1	1	4	1	0	-	-	-		9	0.00
Hexane	24	11	15	50	12	1	-	-	-		111	0.06
Isooctane	30	13	18	61	14	1	-	-	-		137	0.07
MTBE												
Toluene	28	13	17	59	14	1	-	-	-		132	0.07
Xylene (-m)	8	3	5	16	4	0	-	-	-		36	0.02
Biphenyl	N/A										-	-
Cresol (-o)	N/A										-	-
Cumene	N/A										-	-
Naphthalene	N/A										-	-
0	N/A										-	-
Total HAP Species	117	52	72	245	57	4	-	-	-		547	0.27
Non Hap VOC	5,759	2,539	3,510	11,989	2,808	196	-	-	-		26,801	13.40

Total VOC:	5,877	2,591	3,582	12,233	2,865	200	-	-	-		27,347	13.67
Source Fraction Total VOC:	0.21	0.09	0.13	0.45	0.10	0.01	-	-	-			
Total HAP	117	52	72	245	57	4	-	-	-		547	0.27
SINGLE HAP: Isooctane	30	13	18	61	14	1	-	-	-			
Source Fraction HAP:	0.21	0.09	0.13	0.45	0.10	0.01	-	-	-			

Emissions from AP-42

Tanks DIS

	17413	17415	0	0							Total Thruput		
Actual Thruput	-	-	-	-							-	gal/yr	
Calculated Thruput	808,139,938	291,860,062	-	-							1,100,000,000	gal/yr	
Throughput (Bbl / Yr):	19,241,427	6,949,049	-	-							26,190,476	bbl/yr	
	Lb / Year	Lb / Year	Lb / Year	Lb / Year								Lb / Year	Tons /Year
Total VOC**	3,771	1,030	-	-								4,801	2.40
Benzene	6.1	1.7	-	-								8	0.00
Ethylbenzene	8.9	2.4	-	-								11	0.01
Hexane	1.3	0.3	-	-								2	0.00
Isooctane												-	-
MTBE												-	-
Toluene	67.7	18.5	-	-								86	0.04
Xylene (-m)	165.5	45.2	-	-								211	0.11
Biphenyl	-	-	-	-								-	-
Cresol (-o)	-	-	-	-								-	-
Cumene	-	-	-	-								-	-
Naphthalene	1.5	0.4	-	-								2	0.00
0	-	-	-	-								-	-
Total HAP Species	251	69	-	-								320	0.16
Non Hap VOC	3,520	961	-	-								4,482	2.24

Total VOC:	3,771	1,030	-	-								4,801	2.40
Source Fraction Total VOC:	0.79	0.21	-	-								1	
SINGLE HAP: Xylene (-m):	165.54	45.21	-	-								211	0.11
Total HAP:	251	69	-	-								320	0.16
Source Fraction HAP:	0.79	0.21	-	-								1.00	0.00

Emissions from AP-42

Tanks Additive

	10454A	10455A	13061A	13316A	10456	10457	10458	10459B	10460	0	0	0	0	Total			
Actual Thruput	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	gal/yr	
Calculated Thruput	26,399	26,399	26,399	26,399	1,815	3,300	26,399	26,399	990	-	-	-	-	164,500	-	gal/yr	
Throughput (Bbl / Yr):	629	629	629	629	43	79	629	629	24	-	-	-	-	3,917	-	bbl/yr	
	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	lb/year	tons/year
Total VOC**	19	19	19	19	1	2	19	19	1	-	-	-	-	-	-	117.18	0.06
Benzene	N / A					N / A										-	-
Ethylbenzene	5.0	5.0	5.0	5.0	0.3	0.6	5.0	5.0	0.2	-	-	-	-	-	-	30.98	0.02
Hexane																-	-
Isooctane																-	-
MTBE																-	-
Toluene																-	-
Xylene (-m)	13.9	13.9	13.9	13.9	0.8	1.5	13.8	13.8	0.6	-	-	-	-	-	-	86.20	0.04
Biphenyl																-	-
Cresol (-o)																-	-
Cumene																-	-
Naphthalene																-	-
	0															-	-
Total HAP Species	19	19	19	19	1	2	19	19	1	-	-	-	-	-	-	117	0.06
Non Hap VOC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

calculated using 23% ethyl benzene & 77% xylene(-m)

Sample Calculation for Additive thruput

use 0.6 gal of additive for each gal of LOADED gasoline and distillate

$$\begin{aligned}
 \text{Total Additive thruput} &= (\text{Total Loading Volume} / 1000) * (0.6) \\
 &= (500,000,000 \text{ gallons} / 1000) * (0.6) \\
 &= 300,000 \text{ gallons}
 \end{aligned}$$

* Emissions from AP-42

Load CNV-VRU

		Vapor Fraction	Loading Losses 2mg/l		Tank-truck loss 0 mg/l		Total		
			Lbs/Year	Tons/Yr.	Lbs/Year	Tons/Yr.	Lbs/Year	Tons/Yr.	
Gasoline Throughput at the Rack (MM gal)	545.0	Total VOC	100.00%	1,819	0.910	-	-	1,819	0.910
Distillate bottom loading vapors are controlled emissions from this loading are negligible		Benzene	0.44%	8	0.004	0	-	8	0.004
		Ethylbenzene	0.03%	1	0.000	0	-	1	0.000
		Hexane (-n)	0.41%	7	0.004	0	-	7	0.004
		Iso-octane	0.50%	9	0.005	0	-	9	0.005
		MTBE	N/A		-			-	0.000
VRU Emission Rating (mg/liter)	2.00	Toluene	0.48%	9	0.004	0	-	9	0.004
Tank-Truck Loss Factor (mg/liter)	-	Xylene (-m)	0.13%	2	0.001	0	-	2	0.001
Controlled gasoline Loading Losses (lb/year)	9,095	Biphenyl	N/A					-	
		Cresol	N/A					-	
		Cumene	N/A					-	
Uncontrolled gasoline Loading Losses (lb/year)	5,905,855	Naphthalene	N/A					-	
		Phenol	N/A					-	
		Total HAP Species*	2.00%	36	0.018	-	-	36	0.018
		Non Hap VOC	98.00%	1,783	0.891	-	-	1,783	0.891
Temp. used in uncontrolled loading calculation	60.65	Total VOC		1,819	0.910	-	-	1,819	0.910
	520.65	Total HAP		36	0.018	-	-	36	0.018
PTE Vapor Control Down Time lb/yr (tons/year)	-	Highest Single HAP							
	0.0	Iso-octane		9	0.005	-	-	9	0.005

Sample Calculations

Volume Of Gasoline loaded (gallons)*3.785 litres/gallon*(VRU/VDU emission rate (mg/liter of gasoline loaded) + gasoline loading losses (mg/liter of gasoline loaded))*2.2046 lbs/Kg*1 Kg/1,000,000 mg = emissions (lbs)

For 100,000,000 gallons loaded, and a VDU rated at 10 mg/liter the equation yields:

$$100,000,000 * 3.785 * (10 + 8) * 2.2046 * 1 / 1,000,000 = 15,020 \text{ lbs}$$

Uncontrolled Loading Emissions Factor, L = 12.46 SPM/T in lb VOC/1,000 gallons product loaded

for S = 1 (dimensionless); VP = 5.73 psia of VOC; M = 65 lb/lb-mole; T= 530 deg R

$$= 12.46 * (1) * (5.73) * 65 / 530$$

$$= 8.75609 \text{ lb} / 1,000 \text{ gallons gasoline loaded}$$

Uncontrolled Total VOC Emissions = Annual Loading Volume (M gallons) x Loading Emission Factor (lbs VOC per M gallons loaded)

for 100,000,000 gallons loaded, and a loading factor of 8.75609 lbsVOC per 1,000 gallons loaded

$$= 100,000,000 * 8.75609 / 1,000$$

$$= 875,609 \text{ lbs VOC}$$

Load CNV-Flare

		Vapor Fraction	Loading Losses 80mg/l		Tank-truck loss 8 mg/l		Total		
			Lbs/Year	Tons/Yr.	Lbs/Year	Tons/Yr.	Lbs/Year	Tons/Yr.	
Gasoline Throughput at the Rack (MM gal)	5.0	Total VOC	100.00%	3,338	1.669	334	0.167	3,672	1.836
Distillate bottom loading vapors are controlled emissions from this loading are negligible		Benzene	0.44%	15	0.007	1	0.001	16	0.008
		Ethylbenzene	0.03%	1	0.001	0	0.000	1	0.001
		Hexane (-n)	0.41%	14	0.007	1	0.001	15	0.007
		Iso-octane	0.50%	17	0.008	2	0.001	18	0.009
VRU Emission Rating (mg/liter)	80.00	MTBE	N/A	-	-	-	-	-	0.000
Tank-Truck Loss Factor (mg/liter)	8	Toluene	0.48%	16	0.008	2	0.001	18	0.009
		Xylene (-m)	0.13%	4	0.002	0	0.000	5	0.002
Controlled gasoline Loading Losses (lb/year)	3,672	Biphenyl	N/A					-	
		Cresol	N/A					-	
Uncontrolled gasoline Loading Losses (lb/year)	54,182	Cumene	N/A					-	
		Naphthalene	N/A					-	
		Phenol	N/A					-	
Temp. used in uncontrolled loading calculation	60.65 520.65	Total HAP Species*	2.00%	67	0.033	7	0.003	73	0.037
		Non Hap VOC	98.00%	3,271	1.636	327	0.164	3,598	1.799
PTE Vapor Control Down Time lb/yr (tons/year)	- 0.0	Total VOC		3,338	1.669	334	0.167	3,672	1.836
		Total HAP		67	0.033	7	0.003	73	0.037
		Highest Single HAP							
		Iso-octane		17	0.008	2	0.001	18	0.009

Sample Calculations

Volume Of Gasoline loaded (gallons)*3.785 litres/gallon*(VRU/VDU emission rate (mg/liter of gasoline loaded) + gasoline loading losses (mg/liter of gasoline loaded))*2.2046 lbs/Kg*1 Kg/1,000,000 mg = emissions (lbs)

For 100,000,000 gallons loaded, and a VDU rated at 10 mg/liter the equation yields:

$$100,000,000 * 3.785 * (10 + 8) * 2.2046 * 1 / 1,000,000 = 15,020 \text{ lbs}$$

Uncontrolled Loading Emissions Factor, L = 12.46 SPM/T in lb VOC/1,000 gallons product loaded

for S =1.0 (dimensionless); VP = 5.73 psia of VOC; M = 65 lb/lb-mole; T= 530 deg R

$$= 12.46 * (1) * (5.73) * 65 / 530$$

$$= 8.75609 \text{ lb} / 1,000 \text{ gallons gasoline loaded}$$

Uncontrolled Total VOC Emissions = Annual Loading Volume (M gallons) x Loading Emission Factor (lbs VOC per M gallons loaded)

for 100,000,000 gallons loaded, and a loading factor of 8.75609 lbsVOC per 1,000 gallons loaded

$$= 100,000,000 * 8.75609 / 1,000$$

$$= 875,609 \text{ lbs VOC}$$

Load DIS-Rail

		Vapor Fraction	Up Stack		Top Load Fugitives		
			Lbs/Year	Tons/Yr	Lbs/Year	Tons/Yr	
Distillate Throughput (MM gal)	-	Total VOC	100.00%	0.0	-	0.0	-
		Benzene	0.21%	0.0	-	0.0	-
		Ethylbenzene	0.31%	0.0	-	0.0	-
Uncontrolled Tank-Truck Splash Loading Emission Factor (mg/l)	4.00	Hexane (-n)	0.04%	0.0	-	0.0	-
		Iso-octane		0.0	-	0.0	-
		MTBE		0.0	-	0.0	-
Uncontrolled Tank-Truck Bottom Loading Emission Factor (mg/l)	1.70	Toluene	2.36%	0.0	-	0.0	-
		Xylene (-m)	5.77%	0.0	-	0.0	-
		Biphenyl		0.0	-	0.0	-
Distillate Loading Rack Loss (lb/year)	-	Cresol		0.0	-	0.0	-
		Cumene		0.0	-	0.0	-
Top Load Fugitive Loss (lb/year)	-	Naphthalene	0.05%	0.0	-	0.0	-
		Phenol	0.00%	0.0	-	0.0	-
		Total HAP Species*	8.75%	0.0	-	0.0	-
		Non Hap VOC	91.25%	0.0	-	0.0	-

Total VOC	0.0	0.0
Total HAP	0.0	0.0

Highest Single HAP

Benzene		-		-	-
---------	--	---	--	---	---

Sample Calculations

Volume of distillate top loaded (gallons)*3.785 litres/gallon*4.0 mg/liter of distillate loaded
 *2.2046 lbs/kg*1 kg/1,000,000 mg= emissions (lbs)

For 100,000,000 distillate gallons top loaded the equation yields:

100,000,000*3.785*4*2.2046*1/1,000,000 = 3,338 lbs
 Top load emissions are all fugitive

Volume of distillate bottom loaded (gallons)*3.785 litres/gallon* 1.7 mg/liter of distillate loaded
 *2.2046 lbs/kg*1 kg/1,000,000 =emissions (lbs)

For 100,000,000 distillate gallons bottom loaded the equation yields:

100,000,000*3.785*1.7*2.2046*1/1,000,000 = 1,419 lbs
 Bottom Loaded emission are discharged up the stack.
 The "fugitive" emissions are negligible, and are assumed to be zero

Load DIS-Truck

		Vapor Fraction	Up Stack		Top Load Fugitives		
			Lbs/Year	Tons/Yr	Lbs/Year	Tons/Yr	
Distillate Throughput (MM gal)	1,100.00	Total VOC	100.00%	15604.0	7.802	0.0	-
		Benzene	0.21%	33.0	0.016	0.0	-
		Ethylbenzene	0.31%	48.5	0.024	0.0	-
Uncontrolled Tank-Truck Splash Loading Emission Factor (mg/l)	4.00	Hexane (-n)	0.04%	33.0	0.016	0.0	-
		Iso-octane		0.0	-	0.0	-
		MTBE		0.0	-	0.0	-
Uncontrolled Tank-Truck Bottom Loading Emission Factor (mg/l)	1.70	Toluene	2.36%	368.4	0.184	0.0	-
		Xylene (-m)	5.77%	900.6	0.450	0.0	-
Distillate Loading Rack Loss (lb/year)	15,604	Biphenyl		0.0	-	0.0	-
		Cresol		0.0	-	0.0	-
		Cumene		0.0	-	0.0	-
Top Load Fugitive Loss (lb/year)	-	Naphthalene	0.05%	8.3	0.004	0.0	-
		Phenol	0.00%	0.0	-	0.0	-
		Total HAP Species*	8.75%	1391.7	0.696	0.0	-
		Non Hap VOC	91.25%	14212.4	7.106	0.0	-

Total VOC	15604.0	0.0
Total HAP	1391.7	0.0

Highest Single HAP

Xylene (-m)	900.6	-	0.450
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Sample Calculations

Volume of distillate top loaded (gallons)*3.785 litres/gallon*4.0 mg/liter of distillate loaded
 *2.2046 lbs/kg*1 kg/1,000,000 mg= emissions (lbs)

For 100,000,000 distillate gallons top loaded the equation yields:

$100,000,000 * 3.785 * 4 * 2.2046 / 1,000,000 = 3,338$ lbs
 Top load emissions are all fugitive

Volume of distillate bottom loaded (gallons)*3.785 litres/gallon* 1.7 mg/liter of distillate loaded
 *2.2046 lbs/kg*1 kg/1,000,000 =emissions (lbs)

For 100,000,000 distillate gallons bottom loaded the equation yields:

$100,000,000 * 3.785 * 1.7 * 2.2046 / 1,000,000 = 1,419$ lbs
 Bottom Loaded emission are discharged up the stack.
 The 'fugitive' emissions are negligible, and are assumed to be zero

Fug CNV

Fugitive VOC Emissions

Count			Light	Heavy	Gas	Lbs/Hr	Lbs/Year	
Light	Heavy	Gas	Factor (lbs/hr)	Factor (lbs/hr)	Factor (lbs/hr)			
135	126	15	Valves	9.48E-05	9.48E-05	2.87E-05	2.52E-02	2.2E+02
5	5	-	Pumps	1.19E-03	1.19E-03	1.43E-04	1.19E-02	1.0E+02
-	-	-	Other	2.87E-04	2.87E-04	2.65E-04	0.00E+00	0.0E+00
12	12	-	Loading Arm Valve	9.48E-05	9.48E-05	2.87E-05	2.28E-03	2.0E+01
504	472	54	Flanges	1.76E-05	1.76E-05	9.26E-05	2.22E-02	1.9E+02
							Total	539.25

	Light Liquid Fraction	Light Liquid Lbs/Year	Heavy Liquid Fraction	Heavy Liquid Lbs/Year	Gas Fraction	Gas Lbs/Year	Total Lbs/Year
Total VOC	100.00%	252.08	100.00%	239.60	100.00%	47.57	539.25
Benzene 00071-43-2	1.80%	4.54	0.001%	0.00	0.44%	0.21	4.75
Ethylbenzene 00100-41-4	1.40%	3.53	0.01%	0.03	0.03%	0.01	3.58
Hexane 00110-54-3	1.00%	2.52	N/A	N/A	0.41%	0.19	2.71
Isooctane 00540-84-1	4.00%	10.08	N/A	N/A	0.50%	0.24	10.32
MTBE 01634-04-4		0.00	N/A	N/A	0.00%	0.00	0.00
Toluene 00108-88-3	7.00%	17.65	0.03%	0.08	0.48%	0.23	17.95
Xylene (-m) 00108-38-3	7.00%	17.65	0.29%	0.69	0.13%	0.06	18.40
biphenyl 00092-52-4	N/A	N/A	0.00%	0.00	N/A	N/A	0.00
Cresol (-o) 00095-48-7	N/A	N/A	0.00%	0.00	N/A	N/A	0.00
Cumene 00098-82-8	N/A	N/A	0.00%	0.00	N/A	N/A	0.00
Naphthalene 00091-20-3	N/A	N/A	0.10%	0.24	N/A	N/A	0.24
0 0.00%	N/A	N/A	0.00%	0.00	N/A	N/A	0.00
Total HAPS	22.20%	55.96	0.44%	1.04	2.00%	0.95	57.96
Non Hap VOC	77.80%	196.12	99.56%	238.56	98.00%	46.62	481.30

* Based on facility-specific equipment component counts and EPA, November 1995, Equipment Leak Emission Factors.

HAP data

HAP	VAPOR FRACTION Gasoline			Liquid Speciation Weight Fraction Gasoline (used for liquid fugitives)			Liquid Weight Fraction Distillate	Vapor Fraction (calculated) Distillate	Additive Tanks	Vapor Fraction Av Gas	HAP	Cas Numbers	Texas TNRCC Numbers
	(calculated) Conventional*			Conventional									
Benzene	0.44%					1.80%	0.00001	0.00211		0.005	Benzene	00071-43-2	
Ethylbenzene	0.03%					1.40%	0.00013	0.00311	0.264	0.001	Ethylbenzene	00100-41-4	
Hexane	0.41%					1.00%	0.00000	0.00044		0.004	Hexane	00110-54-3	
Isooctane	0.50%					4.00%					Isooctane	00540-84-1	
MTBE											MTBE	01634-04-4	
Toluene	0.48%					7.00%	0.00032	0.02361		0.006	Toluene	00108-88-3	
Xylene (-m)	0.13%					7.00%	0.00290	0.05772	0.736	0.003	Xylene (-m)	00108-38-3	
Biphenyl											Biphenyl	00092-52-4	
Cresol (-o)										0.000	Cresol (-o)	00095-48-7	
Cumene										0.000	Cumene	00098-82-8	
Naphthalene							0.00100	0.00053		0.000	Naphthalene	00091-20-3	

Landing CNV

Tank No.	17,414	30,531	30,532	30,534	30,533	30,535			
Tank Diam	117	70	100	134	50	134			
Heel Height	4.0	4.0	4.0	4.0	4.0	4.0			
Volume ft3	43,005	15,394	31,416	56,410	7,854	56,410			
Vol bbl	7,660	2,742	5,596	10,048	1,399	10,048			
Volume gal	321,722	115,161	235,022	422,006	58,756	422,006			
Vol liters	1,217,718	435,884	889,560	1,597,293	222,390	1,597,293			
Avg Temp F	60.65	60.65	60.65	60.65	60.65	60.65			
Avg Temp K	289.07	289.07	289.07	289.07	289.07	289.07			
temp corr	0.9449	0.9449	0.9449	0.9449	0.9449	0.9449			
moles	51,369	18,388	37,526	67,381	9,381	67,381			
VP of VOC(psia)	7.55	7.55	7.55	7.55	7.55	7.55			
VOC theo fraction	0.51	0.51	0.51	0.51	0.51	0.51			
Sat Factor	0.60	0.60	0.60	0.60	0.60	0.60			
moles VOC	15,823	5,664	11,559	20,756	2,890	20,756			
mol weight g/g-mole	60.00	60.00	60.00	60.00	60.00	60.00			
VOC grams/landing	949,402	339,840	693,551	1,245,340	173,388	1,245,340			
VOC lbs/landing	2,093.04	749	1,529	2,745	382	2,745			
VOC tons/landing	1.05	0.37	0.76	1.37	0.19	1.37			
land/yr	3	3	3	3	3	3			
average days per landing	2.0	2.0	2.0	2.0	2.0	2.0			
VOC lb filling	6,279	2,248	4,587	8,236	1,147	8,236			
VOC lb standing	1,909	683	1,394	2,504	349	2,504			
VOC lb/hr when landing	57	20	42	75	10	75			
VOC lb/day when landing	4,094	1,465	2,991	5,370	748	5,370			
Total VOC lbs	8,188	2,931	5,981	10,740	1,495	10,740			
Total VOC tons	4.09	1.47	2.99	5.37	0.75	5.37			

Total VOC	100.00%	8,188	2,931	5,981	10,740	1,495	10,740			
Benzene	0.44%	36	13	27	48	7	48			
Ethylbenzene	0.03%	3	1	2	3	0	3			
Hexane (-n)	0.41%	33	12	24	44	6	44			
Iso-octane	0.50%	41	15	30	54	8	54			
MTBE	0.00%	-	-	-	-	-	-			
Toluene	0.48%	40	14	29	52	7	52			
Xylene (-m)	0.13%	11	4	8	14	2	14			
Biphenyl	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Cresol	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Cumeme	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Naphthalene	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Phenol	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Total HAP Species*	2.00%	164	59	120	215	30	215			
Non Hap VOC	98.00%	8,024	2,872	5,862	10,526	1,465	10,526			

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

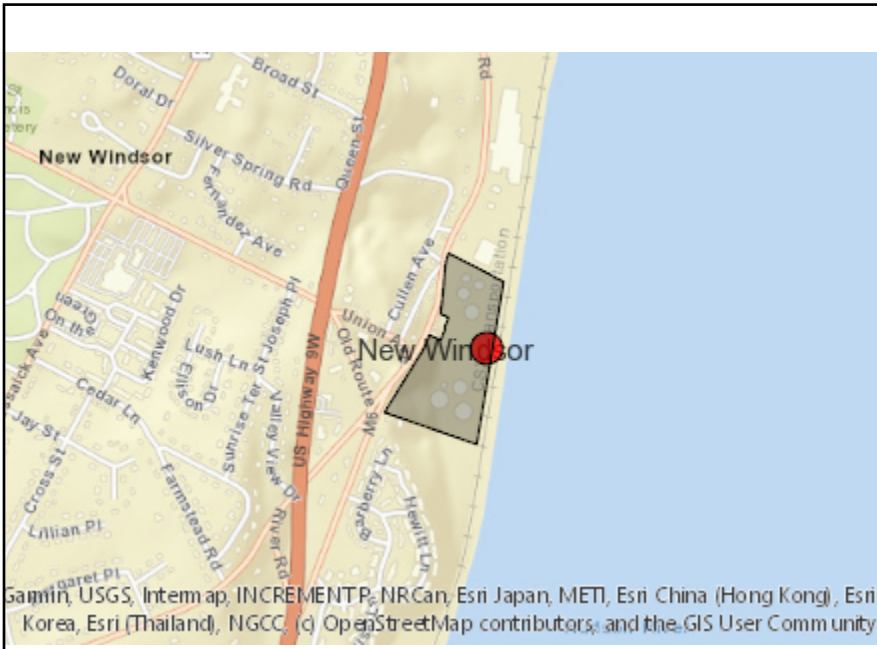
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
Name of Action or Project:			
Project Location (describe, and attach a location map):			
Brief Description of Proposed Action:			
Name of Applicant or Sponsor:		Telephone:	
		E-Mail:	
Address:			
City/PO:		State:	Zip Code:
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ acres			
b. Total acreage to be physically disturbed? _____ acres			
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres			
4. Check all land uses that occur on, are adjoining or near the proposed action:			
<input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):			
<input type="checkbox"/> Parkland			

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO <input type="checkbox"/>	YES <input type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO <input type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO <input type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest Agricultural/grasslands Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO <input type="checkbox"/>	YES <input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO <input type="checkbox"/>	YES <input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, <ul style="list-style-type: none"> a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO <input type="checkbox"/>	YES <input type="checkbox"/>
<p>I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</p> <p>Applicant/sponsor/name: _____ Date: <u>08/27/2020</u></p> <p>Signature: <u><i>Shawn L. Bell</i></u> Title: _____</p>		



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Bald Eagle, Atlantic Sturgeon, Shortnose Sturgeon
Part 1 / Question 16 [100 Year Flood Plain]	Yes
Part 1 / Question 20 [Remediation Site]	Yes

**PART 212 REVIEW
AIR DISPERSION MODEL PROTOCOL
GLOBAL CARGO TERMINAL
NEW WINDSOR, NY**

August 2020

Prepared for:

**Global Companies LLC
800 South Street
Waltham, MA 02454**

Prepared by:



**349 Northern Blvd, Suite 3
Albany, NY 12204**

Envirospec Engineering Project E20-2537

1.0 Introduction:

Air dispersion modeling will be conducted for the Global Companies LLC (Global) Cargo Terminal (Terminal) located in New Windsor, NY. This facility is classified as a gasoline and distillate loading terminal. It consists of five (5) permitted gasoline storage tanks and three (3) distillate tanks. The facility has one (1) truck loading rack. The truck loading rack will be controlled by a Vapor Recovery Unit (VRU).

This protocol is being submitted as part of a Title V air permit renewal application for the facility. Air dispersion modeling is required to determine compliance with 6 NYCRR Part 212. 6 NYCRR Part 212 regulates air pollution from process operations, as defined in the regulation. Each contaminant is assigned an Environmental Rating, which is used to determine the degree of air pollution control required. Facilities with process operations subject to New Source Performance Standards (NSPS) (40 CFR Part 60) and National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 63) are considered in compliance with Part 212 with the exception of compounds on the high toxicity air contaminant (HTAC) list. Facility Potential to Emit (PTE) calculations are completed to determine maximum potential emissions of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs). Pollutants that are considered HTACs are then compared to the mass emission limits specified on 212-2.2 Table 2 – High Toxicity Air Contaminant List. HTACs that exceed the mass emission limit are modeled to demonstrate that fence-line concentrations are below Annual Guideline Concentrations (AGC) for annual emission rates and Short-Term Guideline Concentrations (SGC) for hourly emission rates for the applicable contaminant. HTACs that are below SGC/AGC limits are in compliance with Part 212. The only HTAC emitted from process operations at this facility with emissions exceeding the specified mass emission limit is benzene. Other HAPs are emitted from facility operations, but they are not considered HTACs per 212-2.2 Table 2. Air dispersion modeling will be conducted to assess whether or not facility benzene emissions exceed the SGC and AGC levels.

The air dispersion model will be completed using BREEZE AERMOD Software (version 8.1). Emissions information can be found below which provides information on variables and modeling assumptions which will be used when developing the model. This information is also presented in the attached modeling summary.

2.0 Facility Overview and Process Description:

Global's Cargo Terminal is located at 1096 River Rd in New Windsor, NY. The facility is permitted for petroleum product loading operations. The facility has a gasoline throughput cap of 550,000,000 gallons in a rolling twelve-month period and a distillate throughput cap of 1,100,000,000 gallons in a rolling twelve-month period.



3.0 Modeling Methodology:

The projection to be used for the model will be UTM NAD27, zone 18. An aerial image of the site as well as a facility site plan will be imported as base maps and will be used to determine source locations. The modeling methodology used for this analysis is described below. The following subsections describe the details of the modeling analysis.

3.1 Selection of Dispersion Model:

The latest version of the American Meteorological Society/Environmental Protection Agency Regulatory Model AERMOD will be used. All standard regulatory default options of AERMOD will be invoked.

To facilitate the implementation of AERMOD, the BREEZE AERMOD software will be used.

3.2 Site Characterization:

The Cargo Terminal is located at 1096 River Rd in New Windsor, NY on the western bank of the Hudson River. The base elevation for the terminal is approximately 7 ft. Based on a land use analysis of the area surrounding the terminal, the surrounding area will be considered rural in the air dispersion model.

3.3 Source Emissions:

Total benzene emissions from the facility's PTE calculations will be used for modeling. The PTE calculations will be performed using AP-42 methodology. Tank emissions (standing and working) will be calculated using the latest AP-42 formulas (AP-42 [7.1 Organic Liquid Storage Tanks]). Tank landing emissions will also be calculated using the latest AP-42 calculation methods (AP-42 [7.1.3.2.2 Roof Landings]). Cleaning emissions will be calculated using API calculation methods from Technical Report 2568 – Evaporative Loss from the Cleaning of Storage Tanks.

Transfer emissions are calculated using the standard AP-42 method for calculating rack transfers using maximum facility throughput values and design efficiency of the control device. Transfer fugitives will be controlled with vac assist.

Liquid weight concentrations for benzene will be based on EPA allowable blending levels and used to calculate the benzene vapor weight concentration for gasoline and distillate. Based on these calculations, gasoline has a benzene vapor weight concentration of 0.41% and distillate has a benzene vapor weight concentration of 0.22%.

3.3.1 Gasoline Storage Tanks:

The facility currently has five (5) gasoline storage tanks. The tanks are equipped with internal floating roofs and have varying capacities. Each tank will be modeled as an area source with actual tank height as the release height and actual tank dimensions will be used to determine surface area.

To determine the landing scenario that causes the worst-case short-term (1-hour) impact, landing emissions will be evaluated for each tank separately in the short-term model. The tank with the worst-case estimate of emissions during landing will then be used to determine the maximum hourly emission rate of benzene.



3.3.2 Distillate Storage Tanks:

The facility currently has three (3) vertical fixed roof (VFR) distillate storage tanks. Each tank will be modeled as an area source with actual tank height as the release height and actual tank dimensions will be used to determine surface area.

3.3.3 Truck Loading Rack:

The facility has one (1) truck loading rack where gasoline and distillate are loaded. Loading operations will be controlled with a VRU, which will be modeled as a point source. The permitted emissions limit will be 2 mg/L. There will be two backup flares units, which will also be modeled as point sources. A maximum of 5,000,000 gallons of gasoline throughput will be split between the two flares units, with a permitted emissions limit of 80 mg/l. Manufacturer information will be used to develop source parameters such as stack height, stack diameter, stack temperature, and stack velocity. Loading rack fugitive emissions will be controlled using a vac assist. For the short term dispersion model, the truck loading rack will be assumed to load gasoline at the maximum loading rate as this is the worst case scenario product.

3.4 Building Downwash Analysis:

All of the storage tanks at the facility, as well as office buildings, will be utilized in the building downwash analysis. Direction-specific building dimensions will be generated using BPIP-PRIME.

3.5 Meteorological Data:

Meteorological data which has been pre-processed for AERMOD for the years 2014-2018 will be obtained from the New York State Department of Environmental Conservation. Surface Met Data and Upper Air Met Data is from the Station located at the Hudson Valley Regional Airport in Wappingers Falls, NY, which is located approximately 12 miles northeast of the terminal. This station was chosen because of its close proximity to the terminal.

3.6 Modeled Receptors

Boundary receptors will be modeled at the property lines from the facility site plan. Receptors will be located every 25 meters along the facility boundaries. A Cartesian receptor grid will be used to monitor the area surrounding the facility, using the following spacing:

- 70 meter spacing from the facility boundary out to 1 km
- 100 meter spacing from 1 to 2 km
- 250 meter spacing from 2 to 5 km

Given the low emission release heights and the near ambient release temperatures it is not anticipated that significant emissions will be carried beyond these receptor points.



3.7 Terrain Considerations

The effects of terrain were considered in the modeling analysis. The terrain processor for AERMOD, AERMAP Version 19191 will be used to generate terrain maxima (also referred to as hill heights) for the sources, buildings, and receptors. To generate these terrain maxima, object locations and Digital Elevation Model (DEM) data in 1 degree format will be input to AERMAP.

4.0 Model Results

The results of this analysis will be clearly summarized in tables that will consist of the following information:

- Predicted concentrations, and
- Comparison to the appropriate standards.

In addition to the tabulated results, maps of concentration isopleths will be presented to further illustrate the results.

Hard copies of the model output files for the controlling year for 1-hour and annual benzene concentrations will be submitted. In addition, a .zip folder will be provided which will contain all pertinent input and output files, as well as the meteorological data files.



Global Cargo Terminal Annual Model Assumptions

General		Parameter	Assumptions / Notes	Value
		Projection	UTM	UTM
		Datum	WGS84	WGS 84
		UTM Zone	18	18
		Hemisphere	Northern	Northern
		AERMET	2014-2018 MET Data	2014-2018 Data
		AERMAP	1-deg DEM Data from webgis.com	1 deg DEM Data
Sources				
VRU (Gasoline)	Point Source	Emission Rate Stack Height Stack Temperature Stack Velocity Stack Diameter Emissions Limit	From PTE Calculations for Maximum Potential Annual and Short Term Impact. Actual Stack Height Release Temperature Calculated Actual Stack Diameter	37.3 lb/yr 20 ft Ambient 13.6 ft/s 0.5 ft 2 mg/L
Backup Flare 1 (Gasoline)	Point Source	Emission Rate Stack Height Stack Temperature Stack Velocity Heat Release Radiation Loss Emissions Limit	From PTE Calculations for Maximum Potential Annual and Short Term Impact. Actual Stack Height Release Temperature Calculated Actual Assumed	6.84 lb/yr 21 ft 1300°F 26.6 ft/s 300 BTU/hr 20% 80 mg/L
Backup Flare 2 (Gasoline)	Point Source	Emission Rate Stack Height Stack Temperature Stack Velocity Stack Diameter Heat Release Radiation Loss Emissions Limit	From PTE Calculations for Maximum Potential Annual and Short Term Impact. Actual Stack Height Release Temperature Calculated Actual Stack Diameter Actual Assumed	6.84 lb/yr 20 ft 1300°F 26.6 ft/s 1 ft 300 BTU/hr 20% 80 mg/L
Tank 17413 (Distillate)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	6.5E-8 lb/hr/ft2 6.1 lb/yr 36 ft 58.5 ft 16.7 ft 10751 ft2
Tank 17415 (Distillate)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	4.06E-8 lb/hr/ft2 1.7 lb/yr 29 ft 39 ft 13.5 ft 4778 ft2
Tank 30535 (Distillate)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	6.39E-8 lb/hr/ft2 7.9 lb/yr 48 ft 67 ft 22.3 ft 14103 ft2
Tank 17414 (Gasoline)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	2.55E-7 lb/hr/ft2 24 lb/yr 36 ft 58.5 ft 16.7 ft 10751 ft2
Tank 30531 (Gasoline)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	2.97E-7 lb/hr/ft2 10 lb/yr 48 ft 35 ft 22.3 ft 3848.5 ft2
Tank 30532 (Gasoline)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	2.03E-7 lb/hr/ft2 14 lb/yr 48 ft 50 ft 22.3 ft 7854 ft2
Tank 30533 (Gasoline)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	6.98E-7 lb/hr/ft2 12 lb/yr 48 ft 25 ft 22.3 ft 1963.5 ft2
Tank 30534 (Gasoline)	Area Source	Emission Rate Release Height Radius Initial Vertical Dimension Area	From PTE Calculations for Maximum Potential Annual and Short Term Impact Tank Height. Approx height of roof vents. Tank Radius Tank height divided by 2.15 Tank Area	4.05E-7 lb/hr/ft2 50 lb/yr 48 ft 67 ft 22.3 ft 14103 ft2

Global Cargo Terminal Hourly Model Assumptions

General		Parameter	Assumptions / Notes	Value
		Projection	UTM	UTM
		Datum	WGS84	WGS 84
		UTM Zone	18	18
		Hemisphere	Northern	Northern
		AERMET	2014-2018 MET Data	2014-2018 Data
		AERMAP	1-deg DEM Data from webgis.com	1 deg DEM Data
Sources				
VRU (Gasoline)	Point Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact.	0.0049 lb/hr
		Stack Height	Actual Stack Height	20 ft
		Stack Temperature	Release Temperature	Ambient
		Stack Velocity	Assumed	13.6 ft/s
		Stack Diameter	Actual Stack Diameter	0.5 ft
		Emissions Limit		2 mg/L
Backup Flare 1 (Gasoline)	Point Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact.	0.0985 lb/hr
		Stack Height	Actual Stack Height	21 ft
		Stack Temperature	Release Temperature	1300°F
		Stack Velocity	Calculated	26.6 ft/s
		Heat Release	Actual	300 BTU/hr
		Radiation Loss	Assumed	20%
		Emissions Limit		80 mg/L
Backup Flare 2 (Gasoline)	Point Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact.	0.0985 lb/hr
		Stack Height	Actual Stack Height	20 ft
		Stack Temperature	Release Temperature	1300°F
		Stack Velocity	Calculated	26.6 ft/s
		Stack Diameter	Actual Stack Diameter	1 ft
		Heat Release	Actual	300 BTU/hr
		Radiation Loss	Assumed	20%
		Emissions Limit		80 mg/L
Tank 17413 (Distillate)	Area Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact	6.5E-8 lb/hr/ft2
		Release Height	Tank Height. Approx height of roof vents.	6.96E-4 lb/hr
		Radius	Tank Radius	36 ft
		Initial Vertical Dimension	Tank height divided by 2.15	58.5 ft
		Area	Tank Area	16.7 ft
				10751 ft2
Tank 17415 (Distillate)	Area Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact	4.06E-8 lb/hr/ft2
		Release Height	Tank Height. Approx height of roof vents.	1.94E-4 lb/hr
		Radius	Tank Radius	29 ft
		Initial Vertical Dimension	Tank height divided by 2.15	39 ft
		Area	Tank Area	13.5 ft
				4778 ft2
Tank 30535 (Distillate)	Area Source	Emission Rate	From PTE Calculations for Maximum Potential Annual and Short Term Impact	6.39E-8 lb/hr/ft2
		Release Height	Tank Height. Approx height of roof vents.	9.02E-4 lb/hr
		Radius	Tank Radius	48 ft
		Initial Vertical Dimension	Tank height divided by 2.15	67 ft
		Area	Tank Area	22.3 ft
				14103 ft2
Tank 17414 (Gasoline)	Area Source	Emission Rate (Not During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	2.55E-7 lb/hr/ft2
		Emission Rate (During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	2.7E-3 lb/hr
		Release Height	Tank Height. Approx height of roof vents.	3.99E-4 lb/hr/ft2
		Radius	Tank Radius	4.3 lb/hr
		Initial Vertical Dimension	Tank height divided by 2.15	36 ft
		Area	Tank Area	58.5 ft
				16.7 ft
				10751 ft2
Tank 30531 (Gasoline)	Area Source	Emission Rate (Not During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	2.97E-7 lb/hr/ft2
		Emission Rate (During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	1.14E-3 lb/hr
		Release Height	Tank Height. Approx height of roof vents.	3.99E-4 lb/hr/ft2
		Radius	Tank Radius	1.5 lb/hr
		Initial Vertical Dimension	Tank height divided by 2.15	48 ft
		Area	Tank Area	35 ft
				22.3 ft
				3848.5 ft2
Tank 30532 (Gasoline)	Area Source	Emission Rate (Not During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	2.03E-7 lb/hr/ft2
		Emission Rate (During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	1.6E-3 lb/hr
		Release Height	Tank Height. Approx height of roof vents.	3.99E-4 lb/hr/ft2
		Radius	Tank Radius	3.1 lb/hr
		Initial Vertical Dimension	Tank height divided by 2.15	48 ft
		Area	Tank Area	50 ft
				22.3 ft
				7854 ft2
Tank 30533 (Gasoline)	Area Source	Emission Rate (Not During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	6.98E-7 lb/hr/ft2
		Emission Rate (During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	1.4E-3 lb/hr
		Release Height	Tank Height. Approx height of roof vents.	3.99E-4 lb/hr/ft2
		Radius	Tank Radius	0.88 lb/hr
		Initial Vertical Dimension	Tank height divided by 2.15	48 ft
		Area	Tank Area	25 ft
				22.3 ft
				1963.5 ft2
Tank 30534 (Gasoline)	Area Source	Emission Rate (Not During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	4.05E-7 lb/hr/ft2
		Emission Rate (During Landing)	From PTE Calculations for Maximum Potential Annual and Short Term Impact	5.7E-3 lb/hr
		Release Height	Tank Height. Approx height of roof vents.	3.99E-4 lb/hr/ft2
		Radius	Tank Radius	5.6 lb/hr
		Initial Vertical Dimension	Tank height divided by 2.15	48 ft
		Area	Tank Area	67 ft
				22.3 ft
				14103 ft2

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Tracking Number

1Z549V5R0190829712

Weight

0.90 LBS

Service

UPS Next Day Air®

Shipped / Billed On

08/28/2020

Delivered On

08/31/2020 10:46 A.M.

Delivered To

21 S PUTT CORNERS RD
NEW PALTZ, NY, 12561, US

Received By

CVTARIUS

C. Vitarius

Left At

Front Desk

Reference Number(s)

E20-2537

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Sincerely,

UPS

Tracking results provided by UPS: 08/31/2020 9:16 P.M. EST