Permitting Application - Permit Detail and Permit

ARMS Facility

POINT | AIRS ID 0050056 | STATUS A | OFFICE NWDP | NW Br: PANAMA CITY

SITE NAME: CHEVRON PRODUCTS COMPANY | COUNTY: BAY

OWNER/COMPANY: CHEVRON PRODUCTS COMPANY

Project

AIR Permit # - - | Project # 008 | CRA Reference # 154272

Permit Office: NWD (DISTRICT) | Agency Action: Pending

Project Name: CHEVRON PRODUCTS CO. | Desc: chevron panama city terminal

Type/Sub/Des: AC / 1E | Source 5 tpy but less than 25 $1000 | Logged: 07/14/2003

Received: 07/08/2003 | Issued: | Expires: | OGC:

Fee: 1000.00 | Fee Recd: 1000.00 | Dele: | Override: NONE

Related Party

Role: APPLICANT | Begin: 07/14/2003 | End:

Name: FRANKLIN, TERRY | Company: CHEVRON PRODUCTS COMPANY

Address: 525 WEST BEACH DRIVE

City: PANAMA CITY | State: FL | Zip: 32401 - | Country:

Phone: 850-785-7426 | Fax:

Processors

Processor: WHITE_KM | Y | Active: 07/08/2003 | Inactive: | Events

Chevron

July 1, 2003

Mr. Kevin White
Supervisor Air Permitting Section
Northwest District
Florida Department of Environmental Protection
160 Governmental Center
Pensacola, Florida 32502

Subject: Non-Title V Air Construction Permit for Chevron's Panama City Terminal

Dear Mr. White:

Chevron Products Company's (Chevron) is requesting a Non-Title V Source Air Construction Permit for the Panama City Terminal. The Air Construction Permit is needed to construct a new gasoline aboveground storage tank (AST) (T-10) to replace an old gasoline AST (T-01). Tank 10 will be subject to the requirements of 40 CFR 60 Subpart Kb since its design capacity is greater than 40 m^3 and since the tank was modified after July 23, 1984. To meet the requirements of Subpart Kb, Tank 10 will have an internal floating roof with a stainless steel mechanical primary shoe seal. In addition, Chevron has entered into the voluntary agreement with the U.S Environmental Protection Agency (EPA) to provide control for slotted guidepoles. Tank T-01 will be removed from service upon operation of Tank T-10

Attached you will by 4 copies of the Air Construction Permit Application and a check for the $1,000 air construction permit fee.

We appreciate your assistance in the Panama City terminal construction permit application process. If you have any questions please contact me at (850) 785-7426.

Sincerely,

Terry Franklin

Terry Franklin
Terminal Manager

cc: Louis Milkint, Chevron Products Company

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DEP

0050056-008-AC

APPLICATION FOR AN AIR CONSTRUCTION PERMIT FOR A SYNTHETIC NON-TITLE V SOURCE

CHEVRON PRODUCTS COMPANY
PANAMA CITY TERMINAL
Facility ID No. 0050056

URS Corporation
5900 Windward Parkway
Suite 400
Alpharetta, Georgia 30005

June 2003

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Application for an Air Construction Permit for a Synthetic Non-Title V Source

Chevron Products Company
Panama City Terminal
Facility ID No. 0050056

Prepared for:
Chevron Products Company
Panama City Terminal
525 West Beach Drive
Panama City, Florida 32401

Prepared by:
URS Corporation
5900 Windward Parkway
Suite 400
Alpharetta, Georgia 30005

June 2003

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1.0 Introduction

Chevron Products Company (Chevron) operates a bulk petroleum products distribution terminal in Panama City, Bay County, Florida. The facility receives a variety of refined bulk petroleum products by barge, stores those products in a variety of fixed and floating roof storage tanks, and distributes these products by tank truck (Standard Industrial Classification [SIC] Code 5171). This facility does not distribute petroleum products via marine vessel.

This application constitutes Chevron Products Company's (Chevron) request to obtain an air construction permit for the construction of Tank 10 and removal from service of Tank 01. Tank 01 is a riveted tank built in 1934 and needs to be removed from service. Chevron does not plan to increase the throughputs or maximum allowable VOC emissions through this construction.

The Chevron facility is currently operating under State of Florida Department of Environmental Protection (FDEP) Permit No. 0050056-002-AF, issued on August 15, 2001 and expires on August 15, 2006. The current operating permit is a Federally Enforceable State Operating Permit (FESOP) to operate the facility under enforceable limitations which prevent the facility from being a major source under the Title V Operating Permit program. Emissions from the post-construction facility are estimated to be less than major source emissions thresholds since Chevron does not plan to increase emissions with this construction; therefore, the Panama City terminal will remain a Synthetic Minor source.

Since Chevron is a Synthetic Minor facility and plans to construct a tank to be included in an existing emission unit, which emit regulated air pollutants; a permit to construct is required. This application constitutes Chevron's request for a permit to construct and modify air emissions units. This application fulfills the requirements of DEP Rules 62-4.210 F.A.C. and 62-210.300 F.A.C.

Tank 10

Tank 10 will be a 1,971,438-gallon internal floating roof tank with a geodesic dome that will store gasoline. Tank 10 will be subject to the requirements of 40 CFR 60 Subpart Kb since its design capacity is greater than 40 m^3 and since the tank was modified after July 23, 1984. To meet the requirements of Subpart Kb, Tank 10 will have an internal floating roof with stainless steel mechanical primary shoe seal. In addition, Chevron has entered into the voluntary

agreement with the U.S Environmental Protection Agency (EPA) to provide control for slotted guidepoles. As part of this agreement, Chevron will install required controls for Tank 10 and other select tanks by April 12, 2010. Based on the construction specifications of Tank 10, it should be grouped with existing emission unit 007. Chevron desires to begin construction of Tank 10 in April/May 2004. A review of the compliance status of Tank 10 with applicable provisions of 40 CFR 60 Subpart Kb and any other state regulations is provided in Section 2.0. Summarized below in Table 1-2 is a list of emissions units at the Panama City terminal.

Tank 01

Tank 01 is a 1,932,000-gallon internal floating roof tank that stores gasoline. Tank 01 is going to be removed from service by Chevron. Tank 01 is currently part of emission unit 002. Although Tank 10 is larger than Tank 01, Chevron does not plan to increase the permitted throughputs or maximum allowable VOC emissions through this construction.

Emission Estimates

Emission estimates for regulated air pollutants for proposed Tank 10 were calculated and compared to the emissions from Tank 01. These estimates provide the basis for the regulatory conclusions documented in this permit application. The emission estimates presented in this permit application and calculated by EPA TANKS v4.09b are included in Attachment D.

For calendar year 2002 Tank 01 emitted approximately 15,146 pounds (7.57 tpy) of VOC. Based on the same throughputs, the estimated emissions produced from Tank 10 would be 13,170 pounds (6.59 tpy) of VOC. Therefore, the new tank will decrease the amount of emissions produced. Based on calendar year 2002 throughputs the emissions would decrease approximately 1,976 pounds (0.99 tpy).

Based on 2002 throughputs, 41.4 tpy of VOC were emitted at the Panama City Terminal. Recalculating the emissions with Tank 10, 40.4 tpy of VOC would be emitted. Therefore, these emission estimates support the conclusion that the proposed construction will not result in an increase of facility-wide actual emissions above the current permit's thresholds (88.3 tpy VOC).

Table 1-1. Emission Estimates

	Tank 01	Tank 10
VOC Emissions Calculated with 2002 Throughputs	15,146 lbs. (7.57 tpy)	13,170 lbs. (6.59 tpy)
VOC Emission Decrease with the Installation of Tank 10 and removal of Tank 1	1,976 lbs. (0.99 tpy)	
Annual VOC Emissions Based on 2002 Throughputs	41.4 tpy	40.4 tpy
Permitted VOC Emission Limit	88.3 tpy	

Table 1-2. Chevron Panama City Terminal
Facility Emission Unit Summary Table

Group ID	Source ID	Tank Description*	Vapor Pressure of Liquid Stored	
			> 1.5 psia	≤ 1.5 psia
VCU	001	Vapor Combustion Unit (Controls emissions from loading rack)	N/A	N/A
Tank 01	002	Internal Floating Roof Storage Tank (1,932,000 gal) – Tank to be removed	✓	
Tank 67	002	Internal Floating Roof Storage Tank (758,644 gal)	✓	
Tank 78	002	Internal Floating Roof Storage Tank (1,037,802 gal)	✓	
Tank 84	002	External Floating Roof (Domed) (1,114,000)	✓	
Tank 25	003	Fixed Roof Storage Tank (856,457 gal)		✓
Tank 62	003	Fixed Roof Storage Tank (179,780 gal)		✓
Tank 63	003	Fixed Roof Storage Tank (182,513 gal)		✓
Tank 17	004	Fixed Roof Storage Tank (5,858 gal)		✓
Tank 18	004	Fixed Roof Storage Tank (3,684 gal)		✓
Tank 20	004	Fixed Roof Storage Tank (250 gal)	See Note a	See Note a
Tank 21	004	Fixed Roof Storage Tank (5,493 gal)		✓
Tank 22	004	Fixed Roof Storage Tank (7,948 gal)		✓
Tank 23	004	Fixed Roof Storage Tank (3,799 gal) -(Currently out of Service)	N/A	N/A
Tank 96[b]	004	Fixed Roof Storage Tank (11,929 gal)	✓	
OWS #1	005	Oil/Water Separator	See Note c	See Note c
PT #1[d]	005	Underground Process Tank for PCW (12,000 gal)	See Note c	See Note c
Tank 2	005	Fire Protection Water	N/A	N/A
Tank Ev.	005	Water Evaporation Tank[e]	N/A	N/A
Fl/V/Pu	006	Flanges/valves/pumps	✓	
Truck	006	Tank Truck Loading	N/A	N/A
Tank 66	007	Internal Floating Roof Storage Tank (703,399 gal)	✓	
Tank 10	007	Internal Floating Roof Storage Tank (2,545,746 gal) – New Tank to be constructed by March 2005	✓	
Tank 14	008	Fixed Roof Storage Tank (11,134 gal)		✓

a. This is the Flare Drop-out Tank. This tank is currently dry.
b. Tank 96 contains transmix which may consist of any mixture of products stored at this facility (i.e., gasoline, diesel, water, etc.).
c. These storage and process tanks contain petroleum contaminated water (PCW). PCW contains water and a mixture of any of the products stored at this facility.
d. These units are process tanks (PT). PT #1 collects PCW from the loading rack and storage tank areas before sending the PCW to OWS #1.
e. This tank stores water that is evaporated to the atmosphere.
* All tank capacities listed are safe fill capacity.

2.0 Regulatory Review

This section documents a regulatory review conducted in support of this permit application.

New Source Performance Standards – 40 CFR 60 Subpart Kb

Tank 10 is subject to the requirements of 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. Tank 10 has a capacity greater than 40 cubic meters (10,557 gallons) and stores a VOL with a vapor pressure of approximately 8.6 psia (59.8 kPa) at 70°F. Summarized below in Table 2-1 is a list of Subpart Kb requirements potentially applicable to Tank 10.

Table 2-1. Applicability of Panama City Terminal Tank 10 with Requirements of Rule 40 CFR 60 Subpart Kb

Rule Citation – 40 CFR 60	Requirement	Applicable? (Yes, No, Not Applicable)
112b(a)(1)(i)	The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof.	Yes
	The internal floating roof shall float on the liquid surface at all times, except during initial fill and during those intervals with the tank is completely emptied of subsequently emptied and filled.	Yes
112b(a)(1)(ii)(C)	The internal floating roof shall be equipped with a mechanical shoe seal.	Yes
112b(a)(1)(iii)	Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.	N/A – Roof is in Contact
112b(a)(1)(iv)	Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position (i.e., no visible gap) at all times except when in use.	Yes
	The cover or lid shall be equipped with a gasket.	Yes
	Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.	Yes
112b(a)(1)(v)	Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Yes

Table 2-1. Applicability of Panama City Terminal Tank 10 with Requirements of Rule 40 CFR 60 Subpart Kb (continued)

Rule Citation – 40 CFR 60	Requirement	Applicable? (Yes, No, Not Applicable)
112b(a)(1)(vi)	Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.	Yes
112b(a)(1)(vii)	Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90% of the opening.	Yes
112b(a)(1)(viii)	Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or gasketed sliding cover.	Yes
112b(a)(1)(ix)	Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.	Yes
113b(a)(1)	After installation of the internal floating roof, was the internal floating roof and seals inspected prior to filling of the vessel?	Yes
	If holes, tears, or openings were found during the inspection, were these openings repaired before filling of the vessel?	Yes

Appendix A

Permit Application Forms and Supplemental Attachments

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility 0050056-008-AC

1. Facility Owner/Company Name: **Chevron Products Company**	
2. Site Name: **Panama City Terminal**	
3. Facility Identification Number: **0050056** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **525 West Bay Drive** City: **Panama City** County: **Bay** Zip Code: **32401**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Louis Milkint**
2. Application Contact Mailing Address: Organization/Firm: **Chevron Products Company** Street Address: **4442 Grove Drive** City: **Acworth** State: **Georgia** Zip Code: **30101**
3. Application Contact Telephone Numbers: Telephone: **(770) 529 - 4776** Fax: **(770) 529 - 4229**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	

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Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

[ ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number:_____

[ ] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number:_____

Operation permit number to be revised:_____

[ ] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

_____

[ ] Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: **Terry Franklin**

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Chevron Products Company**
   Street Address: **525 West Beach Drive**
   City: **Panama City** State: **Florida** Zip Code: **32401**

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(850) 785-7426** Fax: **(850) 784 - 1566**

4. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   Terry Franklin — Signature

   6/24/03 — Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Samir M. Najim**
   Registration Number: **57206**

2. Professional Engineer Mailing Address:
   Organization/Firm: **URS Corporation**
   Street Address: **5900 Windward Parkway, Suite 400**
   City: **Alpharetta** State: **GA** Zip Code: **30005**

3. Professional Engineer Telephone Numbers:
   Telephone: **(678)356 - 8300** Fax: **(678) 356 - 0055**

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [**X**], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Samir M. Najim
Signature

6/23/03
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
007	High Volatility VOL Storage Tanks Subject to NSPS	AC1E	$1,000

Application Processing Fee

Check one: [X] Attached - Amount: $ 1,000 [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This submittal is for an air construction permit to modify an emission unit for a synthetic non-Title V source. Chevron is planning on removing from service Tank 01 (emission unit 002) and replacing it with Tank 10 (emission unit 007). Tank 10 will be an internal floating roof tank with a stainless steel mechanical primary shoe seal. Tank 10 will have a capacity of 1,971,438 gallons and will contain gasoline. Chevron does not plan to change their permitted throughput limits or maximum allowable VOC emissions with this modification. Tank 10 will be subject to the requirements of 40 CFR 60 Subpart Kb. Based on emission estimates, emissions from the modified facility will remain below major source thresholds (VOC, CO, NOX, and PM < 100 tpy, total HAP < 25 tpy, individual HAP < 10 tpy). Therefore, the Panama City terminal will retain its status as a permitted Synthetic Minor source.

2. Projected or Actual Date of Commencement of Construction: **April/May 2004**

3. Projected Date of Completion of Construction: **March 2005**

Application Comment

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **16** East (km): **628.3** North (km): **3336.8**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **30/09/19** Longitude (DD/MM/SS): **85/39/52**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **51**	6. Facility SIC(s): **5171**
7. Facility Comment (limit to 500 characters): **This facility is a petroleum terminal consisting of storage tanks, loading rack, and a vapor combustion unit. The terminal receives petroleum products by barge, stores those products in a variety of fixed and floating roof storage tanks, and distributes these products by tanker trucks. Tanker truck loading emissions are controlled by a vapor combustion unit. This facility does not distribute petroleum products via marine terminal. Facility emissions are limited by limiting the maximum throughput of petroleum liquids through the facility, and this facility is considered a synthetic minor facility as a result. Based on the terminal's current Air Operation Permit (0050056-007-AF) there are eight emission units at this facility.** **This facility plans to construct Tank 10 to replace Tank 01, which is a riveted tank built in 1934 that needs to be replaced.**			

Facility Contact

1. Name and Title of Facility Contact: **Terry Franklin, Terminal Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Chevron Products Company** Street Address: **525 West Beach Drive** City: **Panama City** State: **FL** Zip Code: **32401**
3. Facility Contact Telephone Numbers: Telephone: **(850) 785-7426** Fax: **(850) 784 - 1566**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [X] Synthetic Non-Title V Source?	
3. [X] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [X] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters):	

This terminal is currently a permitted synthetic minor source with limits on VOC (< 88.3 tpy). 40 CFR 63 Subpart R does not apply since the facility is not a major source of HAP.

The terminal is not requesting an increase from the permitted VOC emission limit of 88.3 tpy or the VOL throughput limit of 325,760,000 gallons/year.

Rule Applicability Analysis

62-4.050 F.A.C. Procedure to Obtain Permits and Other Authorizations Application
62-210 F.A.C. Stationary Sources - General Requirements
62-210.300 F.A.C. Permits Required
62-296.320 F.A.C. General Pollutant Emission Limiting Standards
62-297.310 F.A.C. General Test Requirements
62-297.330 F.A.C. Applicable Test Requirements
62-297.340 F.A.C. Frequency of Compliance Tests
62-297.570 F.A.C. Test Reports
40 CFR 60 Subpart A, General Provisions (Tank 10)
40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Tank 10)

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
VOC	**SM**		**88.3**	**ESCTV**	

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID:**Attachment A** [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID: **Attachment B** [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID: **Attachment C** [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID:_____ [X] Not Applicable
6. Supplemental Requirements Comment:

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

High Volatility VOL Storage Tanks Subject to NSPS – includes New Tank 10 & Existing Tank 66

3. Emissions Unit Identification Number: ID: **007**		[ ] No ID [ ] ID Unknown
4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **March 2005**	6. Emissions Unit Major Group SIC Code: **51**

7. Emissions Unit Comment: (Limit to 500 Characters)

Emission Unit ID: 007 consists of a collectively regulated group of emission units. Tank 10 is a storage tank with a storage capacity > 10,557 gallons storing product with a vapor pressure > 1.5 psia. Tank 10 has an internal floating roof. Tank 10 is subject to the requirements of 40 CFR 60 Subpart Kb.

Emission Unit 007 currently consists of Tank 66.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Tank 10 will be a carbon steel tank with an internal floating roof and aluminum geodesic dome roof. Tank 10 will have a stainless steel mechanical primary shoe seal to comply with 40 CFR 60.112b(a)(1)(ii).**
2. Control Device or Method Code(s): **099**

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		 °F seconds °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule: hours/day **24** weeks/year **52**		 days/week **7** hours/year **8,760**
6. Operating Capacity/Schedule Comment (limit to 200 characters): **Chevron will limit hourly throughput to 96,000 gallon total product/hour and annual throughput to 325,760,000 gallon/year for high volatile products and 47,490,000 gallon/year for low volatile products.**		

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **See Plot Plan**	2. Emission Point Type Code: **3**
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **New Tank 10 & Existing Tank 66**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **007 – Petroleum liquid storage tank storing gasoline, having an internal floating roof, and subject to NSPS requirements.**	

5. Discharge Type Code: **P**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: **77** °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %

11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: **42.5** feet

13. Emission Point UTM Coordinates:

Zone: **16** East (km): **628.3** North (km): **3336.8**

14. Emission Point Comment (limit to 200 characters):

Standing and working losses occur through breather vents on the tanks. The Nonstack Emission Point Height is the minimum shell height of the storage tanks in this emission unit.

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Standing Losses from Storage Tanks – Gasoline; Floating Roof Tanks**		
2. Source Classification Code (SCC): **40400110**	3. SCC Units: **Thousand Gallons Stored**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): **Chevron will limit hourly throughput to 96,000 gallon total product/hour and annual throughput to 325,760,000 gallon/year for high volatile products and 47,490,000 gallon/year for low volatile products.**		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Working Losses from Storage Tanks – Gasoline; Floating Roof Tanks**		
2. Source Classification Code (SCC): **40400116**	3. SCC Units: **Thousand Gallons Transferred or Handled**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): **Chevron will limit hourly throughput to 96,000 gallon total product/hour and annual throughput to 325,760,000 gallon/year for high volatile products and 47,490,000 gallon/year for low volatile products.**		

Emissions Unit Informat. . Section 2 of 2

Pollutant Detail Information Page 1 of 1

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **VOC**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **99**	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: **1.50** lb/hour **7.34** tons/year		7. Synthetically Limited? [**X**]
8. Emission Factor: **Reference: EPA's TANKS v4.09b**		9. Emissions Method Code: **3**
10. Calculation of Emissions (limit to 600 characters): **VOC emissions from tank standing and working losses were calculated using EPA's TANKS v4.09b. These calculations are attached as Attachment D.**		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **See Comments Below**	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **The facility-wide emissions limit for VOC is 88.3 tpy.**	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **Not Applicable**	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: **Not Applicable**	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

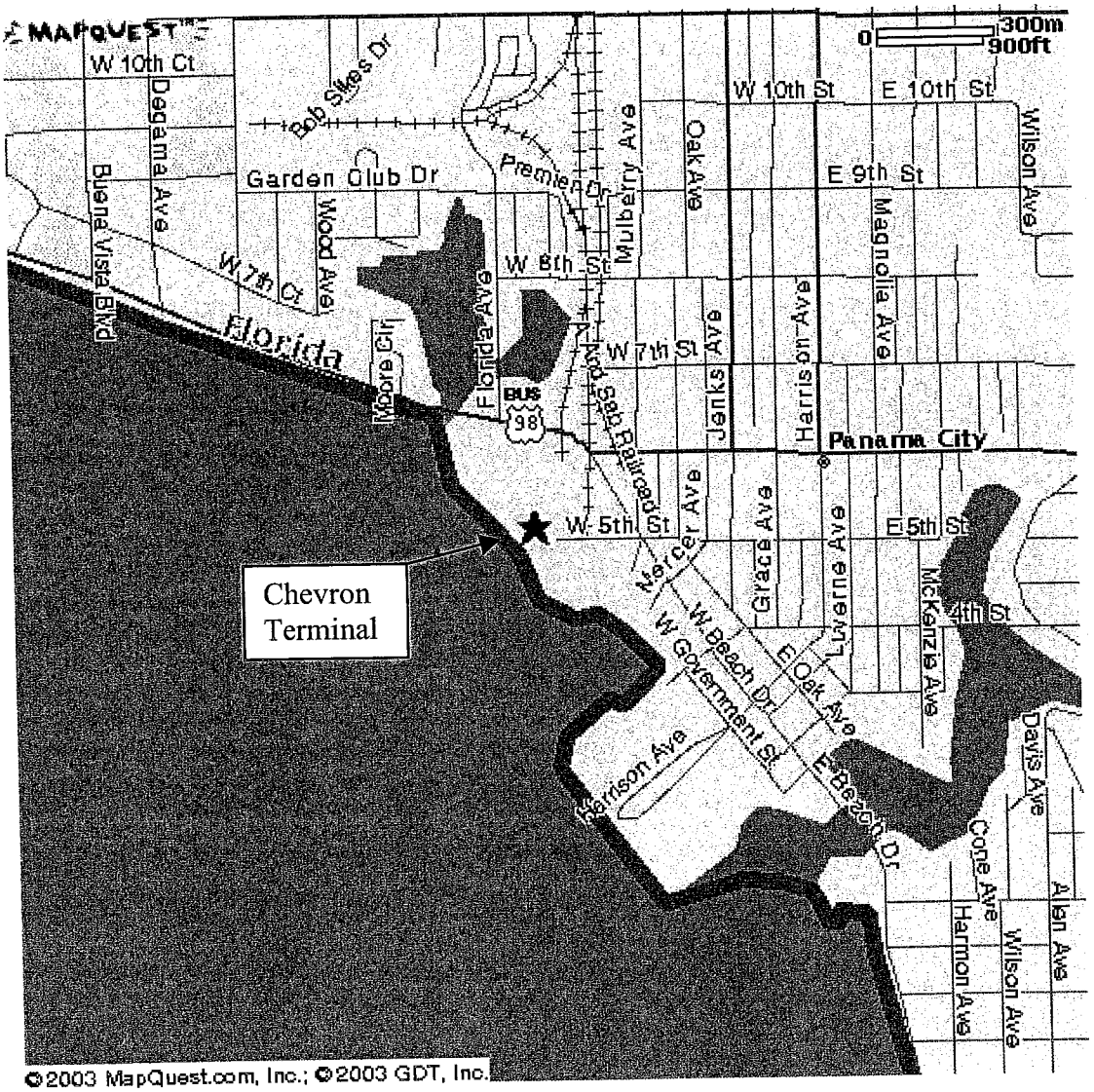
Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Attachment C** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Attachment A

Area Map Showing Facility Location

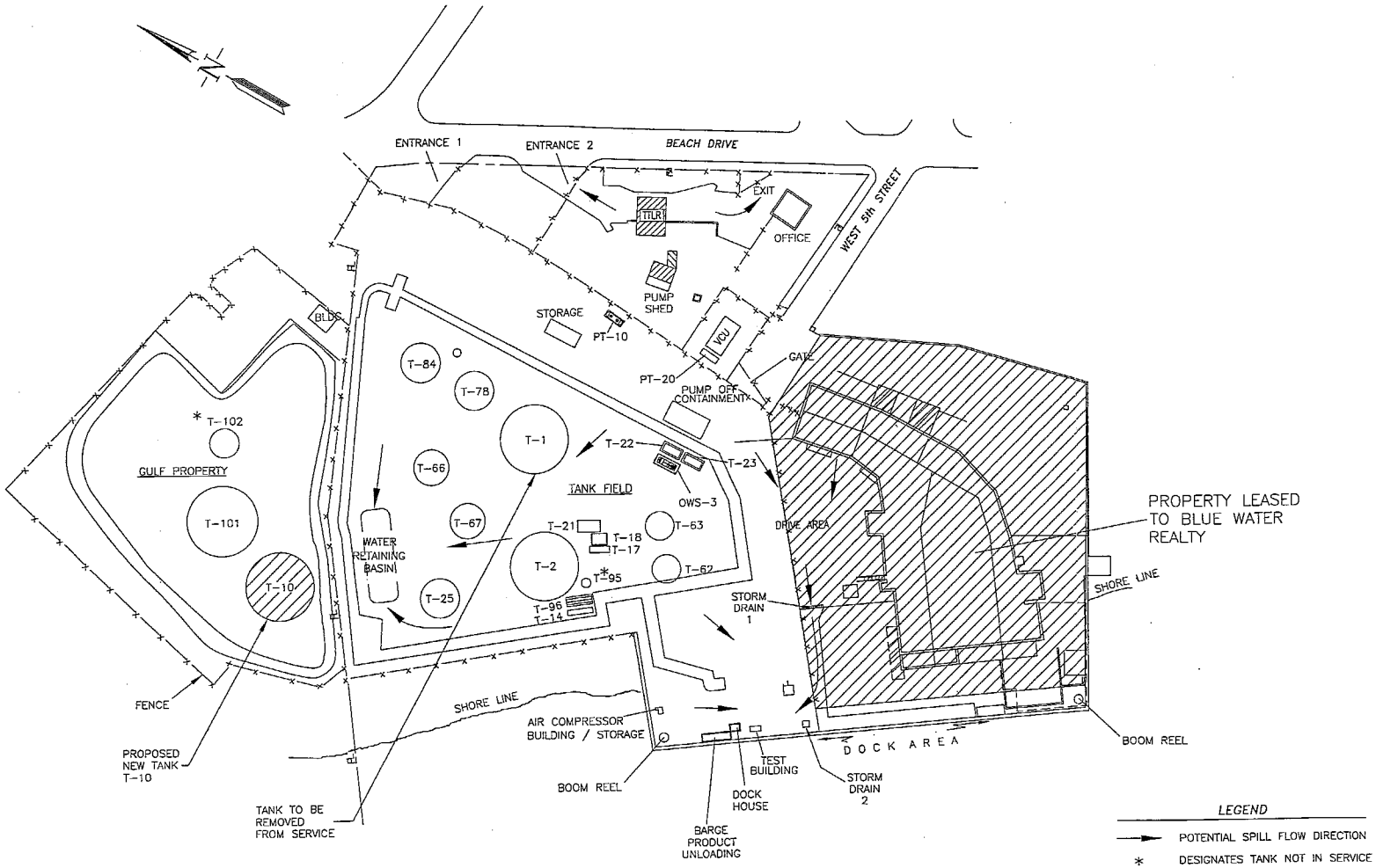
Chevron Products Company
Panama City, Florida Terminal
525 West Beach Drive
Panama City, Florida 32401
General Area Map



Attachment B

Facility Plot Plan

~~filed elsewhere~~



REVISED 6-19-03 BY S. NAJIM, URS
REVISED 7-22-02 BY U. HENRY

FIGURE 2

0 150 300
SCALE IN FEET

PREPARED FOR

Chevron

URS Corporation
5900 Windward Parkway, Suite 400
Alpharetta, GA 30005
Tel: (678) 356-8300, Fax: (678) 356-0055

SCALE	AS NOTED	
DRAWN BY	RFW	DATE 2/24/00
CHECKED BY	KG	DATE 2/25/00
APPROVED BY	---	DATE ---

DRAWING TITLE

FACILITY PLOT PLAN

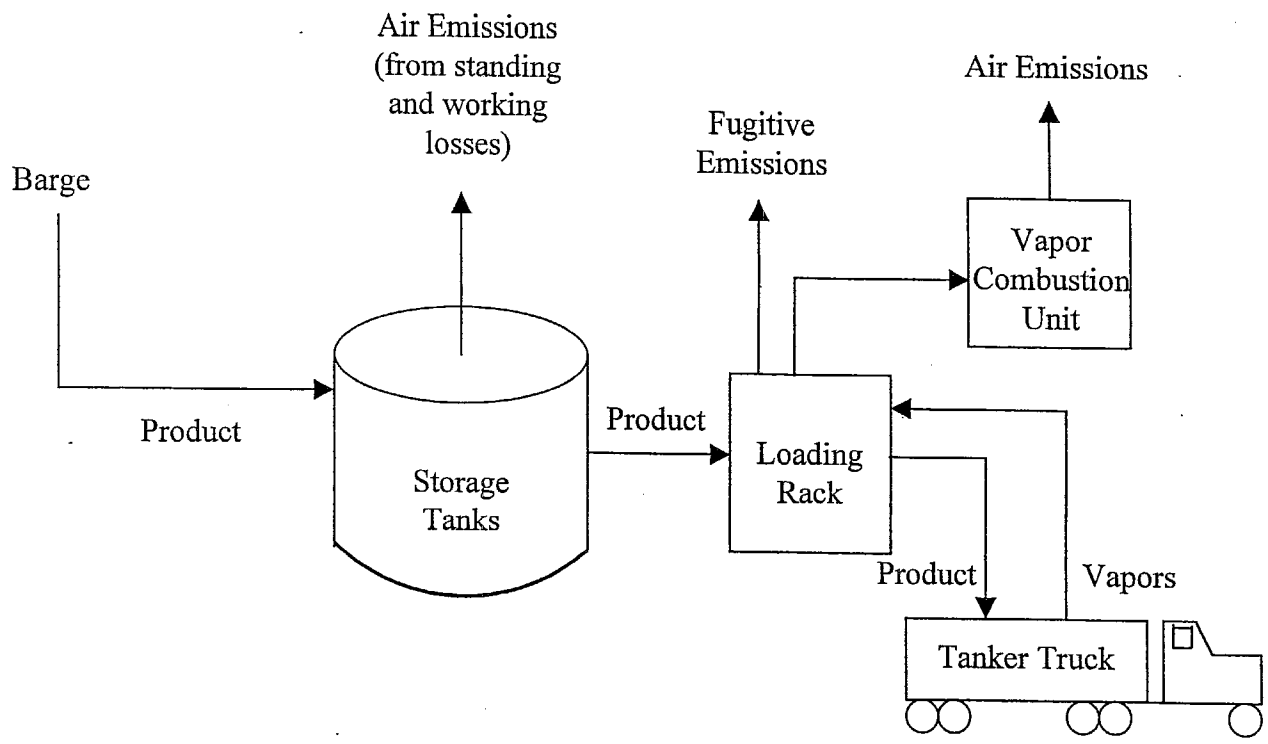
PANAMA CITY TERMINAL
525 WEST BEACH DRIVE
PANAMA CITY, FLORIDA

CAD DRAWING FILE: CHEVRON\B2

CONTRACT NO. 804163.02 | DRAWING NO. B-2 | REV.

Attachment C

Process Flow Diagram



Generic Process Flow Diagram for Bulk Terminal Operations

Attachment D

Emission Calculations – EPA TANKS v4.09b Results

TANKS 4.0
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	PC-010
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Internal Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	88.00
Volume (gallons):	1,971,438.00
Turnovers:	30.77
Self Supp. Roof? (y/n):	Y
No. of Columns:	0.00
Eff. Col. Diam. (ft):	0.00

Paint Characteristics

Internal Shell Condition:	Light Rust
Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Rim-Seal System

Primary Seal:	Mechanical Shoe
Secondary Seal:	None

Deck Characteristics

Deck Fitting Category:	Detail
Deck Type:	Bolted
Construction:	Sheet
Deck Seam:	Sheet: 5 Ft Wide
Deck Seam Len. (ft):	1,216.42

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Roof Leg or Hanger Well/Adjustable	30
Stub Drain (1-in. Diameter)/	74
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1

TANKS 4.0
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Meteorological Data used in Emissions Calculations: Apalachicola, Florida (Avg Atmospheric Pressure = 14.73 psia)

TANKS 4.0
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Chevron-Gasoline(RVP 13.0)	Jan	62.25	58.21	66.29	68.10	7.2224	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Feb	63.63	59.26	67.99	68.10	7.4090	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Mar	66.80	62.19	71.42	68.10	7.8539	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Apr	70.27	65.08	75.46	68.10	8.3639	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 9.0)	May	73.50	68.14	78.87	68.10	5.9312	N/A	N/A	66.0000			100.00	Option 4: RVP=9, ASTM Slope=2.7
Chevron-Gasoline(RVP 9.0)	Jun	75.89	70.77	81.00	68.10	6.2034	N/A	N/A	66.0000			100.00	Option 4: RVP=9, ASTM Slope=2.7
Chevron-Gasoline(RVP 9.0)	Jul	76.39	71.71	81.06	68.10	6.2616	N/A	N/A	66.0000			100.00	Option 4: RVP=9, ASTM Slope=2.7
Chevron-Gasoline(RVP 9.0)	Aug	76.17	71.61	80.74	68.10	6.2367	N/A	N/A	66.0000			100.00	Option 4: RVP=9, ASTM Slope=2.7
Chevron-Gasoline(RVP 13.0)	Sep	74.78	70.36	79.20	68.10	9.0660	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Oct	70.84	66.06	75.62	68.10	8.4507	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Nov	66.75	62.36	71.13	68.10	7.8461	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.0)	Dec	63.57	59.53	67.60	68.10	7.4008	N/A	N/A	66.0000			100.00	Option 4: RVP=13, ASTM Slope=2.9

TANKS 4.0
Emissions Report - Detail Format
Detail Calculations (AP-42)

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Rim Seal Losses (lb):	468.4744	485.6307	528.1830	580.1416	359.5688	381.2304	385.9515	383.9284	658.1306	589.3476	527.4094	484.8639
Seal Factor A (lb-mole/ft-yr):	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000	5.8000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000
Value of Vapor Pressure Function:	0.1669	0.1730	0.1882	0.2067	0.1281	0.1358	0.1375	0.1368	0.2344	0.2099	0.1879	0.1727
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.2224	7.4090	7.8539	8.3639	5.9312	6.2034	6.2616	6.2367	9.0660	8.4507	7.8461	7.4008
Tank Diameter (ft):	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000
Vapor Molecular Weight (lb/lb-mole):	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Withdrawal Losses (lb):	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081	11.6081
Number of Columns:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Effective Column Diameter (ft):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Net Throughput (gal/mo.):	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500	5,055,187.500
	0	0	0	0	0	0	0	0	0	0	0	0
Shell Clingage Factor (bbl/1000 sqft):	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Average Organic Liquid Density (lb/gal):	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000
Tank Diameter (ft):	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000
Deck Fitting Losses (lb):	379.0751	392.9575	427.3894	469.4328	290.9520	308.4799	312.3001	310.6630	532.5391	476.8820	426.7635	392.3370
Value of Vapor Pressure Function:	0.1669	0.1730	0.1882	0.2067	0.1281	0.1358	0.1375	0.1368	0.2344	0.2099	0.1879	0.1727
Vapor Molecular Weight (lb/lb-mole):	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tot. Roof Fitting Loss Fact.(lb-mole/yr):	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000	413.0000
Deck Seam Losses (lb):	199.0208	206.3093	224.3867	246.4602	152.7547	161.9572	163.9628	163.1034	279.5920	250.3711	224.0581	205.9836
Deck Seam Length (ft):	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236	1,216.4236
Deck Seam Loss per Unit Length Factor (lb-mole/ft-yr):	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400	0.1400
Deck Seam Length Factor(ft/sqft):	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
Tank Diameter (ft):	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000	88.0000
Vapor Molecular Weight (lb/lb-mole):	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000	66.0000
Product Factor:	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Deck Fitting/Status	Quantity	KFa (lb-mole/yr)	Deck Fitting Loss Factors KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1	36.00	5.90	1.20	410.9418
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	159.8107
Roof Leg or Hanger Well/Adjustable	30	7.90	0.00	0.00	2,705.3671
Stub Drain (1-in. Diameter)/	74	1.20	0.00	0.00	1,013.6565
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	70.7733
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1	31.00	150.00	1.40	353.8666

Total Losses (lb):	1,058.1783	1,096.5056	1,191.5672	1,307.6426	814.8836	863.2755	873.8224	869.3028	1,481.8698	1,328.2087	1,189.8390	1,094.7925

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Annual Emissions Report

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.0)	4,322.18	92.86	3,497.38	1,836.18	9,748.60
Chevron-Gasoline(RVP 9.0)	1,510.68	46.43	1,222.39	641.78	3,421.28
Total:	5,832.86	139.30	4,719.77	2,477.96	13,169.89