SAV 5/23/01
Bob K.

Chevron

May 21, 2001

850 785 7426 #29

Ms. Sandra Veazey
Air Program Administrator
Florida Department of Environmental Protection
160 Governmental Center
Pensacola, Florida 32501-5794

Subject: **Comments on Draft Construction Permit (Permit No. 0050056-005-AC) for Chevron Product Company's Panama City, Florida Terminal**

Dear Ms. Veazey:

In a letter dated April 17, 2001, the Florida Department of Environmental Protection (FDEP) requested that Chevron Products Company (Chevron) provide comments on the draft construction permit (Permit No. 0050056-005-AC) for the Panama City terminal. Our comments on specific conditions and our suggested revisions are provided below.

Section II. Facility-Wide Condition 9.

This condition states that Chevron shall maintain records showing monthly and rolling 12-month throughput and emissions for each individual emissions unit. Chevron has no practical means to estimate throughput for individual tanks. Chevron currently does and will continue to keep records of petroleum product transferred by the loading rack [EU001] (i.e., facility-wide). Since the permit limits rolling 12-month total throughput and emissions on a facility-wide basis, maintaining these records on an individual emissions unit basis is unnecessarily burdensome for terminal personnel. Chevron requests that requirements for keeping records of throughput and emissions on a per tank basis be eliminated as follows:

- The Permittee shall maintain records for all stored materials which show monthly and rolling twelve-month throughput and emissions for the facility ~~and individual emission units~~. These records shall be maintained at the terminal and made available as necessary for at least five years.

ok

Section III. Emissions Unit Specific Condition A.6.

This condition states that the VOC emissions compliance test for the Vapor Combustion Unit (EU001) shall be performed before the end of February. Typically, the Panama City terminal has trouble reaching operational capacity during winter months. However, during summer months, the terminal operates nearer to operational capacity. Since testing of emissions is requested to be conducted with the source operating at capacity per Condition A.11., Chevron requests that the VOC emissions compliance test be performed before the end of June.

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- Tests shall be conducted in accordance with the table below:

Pollutant	Test Method / Frequency
Vapor Combustion Unit:	
VOC	EPA method 2B, and 25A or 25B, once before permit renewal in 2001, before the end of ~~February~~ June.

of F
or per
MPW 9/23/01
(Cond A.6)

Section III. Emissions Unit Specific Condition A.20.d.

In permit application 0050056-005-AC, Chevron had requested that the limit on the maximum allowable operating rate of the loading rack be changed from 64,000 gallons per hour to 96,000 gallons per hour. Specific Condition A.20.d still references the old limit. Chevron requests that this condition be changed as follows.

typo

- d. The maximum loading rate for loading gasoline shall be ~~64,000~~ 96,000 gallons per hour unless the permittee requests a modification of this limit with reasonable data to justify a higher operating rate using the equation in paragraph b above.

Section III. Emissions Unit Specific Condition A.21.

The vapor combustion unit (VCU) at the Panama City terminal does not operate with a pilot flame. The VCU has an electronic ignition system coupled with a differential pressure gauge. A pressure drop across the gauge indicates the flow of petroleum product vapor. Once the differential pressure reaches a set threshold, the ignition system is activated to produce a flame for combustion of the vapors. Chevron maintains the ignition system according to manufacturer recommendations. Chevron requests that Specific Condition A.21 be removed since the VCU does not have a pilot flame.

No NSPS rqmt.

- ~~A.21. The flare (VCU) shall operate with a flame present at all times. [40 CFR 60.18(c)(2)]. The presence of a flare pilot flame shall be continuously monitored using a thermocouple or equivalent device. [40 CFR 60.18(f)(2)]. The flame monitoring system shall continuously interact with the flare control system. In the event the control system fails to verify the presence of a pilot flame, loading rack operation shall cease immediately and not be returned to operation until the flare is operating properly~~.

Section III. Emissions Unit Specific Conditions B.3, C.3, D.2, E.2, F.2, G.3, and H.3.

These seven (7) conditions state that Chevron shall maintain records showing monthly and rolling 12-month throughput for each tank and the respective emissions unit. Chevron has no practical means to estimate throughput for individual tanks. Chevron currently does and will continue to keep records of petroleum product transferred by the loading rack [EU001] (i.e., facility-wide). Since the permit limits rolling 12-month total throughput and emissions on a facility-wide basis, maintaining these records on an individual emissions unit basis is

ok

unnecessarily burdensome for terminal personnel. Chevron requests that requirements for keeping records of throughput and emissions on a per tank and emissions unit basis be eliminated as shown below.

- T~~he Permittee shall maintain records at the terminal for at least 5 years showing the monthly and rolling twelve-month throughput and emissions for each tank and for the respective emission unit.~~

If you have any questions regarding the comments contained in this letter, feel free to contact me using the address or phone numbers provided above.

Sincerely,

Terry Franklin

Terry Franklin, Terminal Manager

cc: Louis Milkint, Terminal ES&H & Training Specialist

Department of Environmental Protection

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Jeb Bush
Governor

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

David B. Struhs
Secretary

April 17, 2001

Terry Franklin
Panama City Terminal Manager
Chevron Products Company
525 West Beach Dr
Panama City FL 32401

Dear Mr. Franklin:

This is in response to the additional information received April 9, 2001 concerning application 0050056-005-AC to add a loading rack and increase loading and annual throughput at Chevron's Panama City Terminal.

Enclosed is a draft construction permit for your review and comment. We believe the draft is responsive to your application and subsequent modifications. The draft includes the additional loading rack, increased loading and annual throughput, and addresses the discrepancies between the existing facility and the existing permit.

We believe your application does not properly organize emission points into emission units, and we have reorganized the emission units to combine only similar activities into specific emission units. However, we based the application fee on the existing configuration, and we believe the appropriate fee should be $4000. You have submitted $4,500.

We have also enclosed a copy of our review notes.

We plan on issuing notice of intent to issue this permit by May 1, 2001, and would appreciate any comments prior to that date. If you have any questions, please contact Bob Kriegel at (850) 595-8364, extension 1231.

Sincerely,

Andrew S. Allen
Air Permitting Supervisor

ASA:bkc

Enclosures
cc: Louis Milkint, Chevron Products Company

Chevron

April 4, 2001

Ms. Sandra Veazey
Air Program Administrator
Florida Department of Environmental Protection
160 Governmental Center
Pensacola, Florida 32501-5794

Subject: Addendum and Additional Information Required for Permit Application 0050056-005-AC for Chevron's Panama City Terminal (Facility ID 0050056)

Dear Ms. Veazey:

Addendum to Construction Permit Application No. 0050056-005-AC

As part of Chevron Product Company's (Chevron) construction permit application (file number 0050056-005-AC), Tank 01 was not included as an emissions unit. This was consistent with Chevron's old construction permit (Permit No. 0050056-004-AC) which showed that Tank 01 was being taken out-of-service after completion of modifications to Tank 66. However, with the closing of the Citgo terminal, Chevron is now supplying additional customers that were previously serviced by Citgo. To help meet the demands of these additional customers, Chevron would like to keep Tank 01 in gasoline service. All previously proposed throughput limits in application 0050056-005-AC will remain the same. However, with the addition of Tank 01, Chevron would like to revise its proposed facility-wide VOC emissions limit from 80.7 tpy to 88.3 tpy. Enclosed with this letter and described below are replacement pages for the construction permit application that reflect new data for Tank 01 and/or the new proposed VOC emissions limit

88.3
80.7
+7.6

- Text pages 1-3, 4 and 5 (includes Tank 01 in the project summary and in Table 1-1);
- Text page 3-1 (updates the potential emissions summary table);
- Text page 4-3 (includes Tank 01 in Table 4-1);
- Form page 4 (professional engineer's statement page; requested in FDEP letter dated 02/14/2001);
- Form pages 6, 9 and 15 (updates the proposed facility-wide VOC limit);
- Form pages 19, 20, 21 and 23 (includes Tank 01 in emissions unit group 002);
- Form pages 30, 37, 44 and 51 (updates the proposed facility-wide VOC limit); and
- Report pages from EPA's TANKS v4.09 for Tanks 01, 66, 67, 78 and 84.

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Additional Information for Construction Permit Application No. 0050056-005-AC

Lastly, in a letter dated February 14, 2001, the Florida Department of Environmental Protection (FDEP) requested additional information to process the construction permit application 0050056-005-AC. Your first comment requested identification of the increase in potential emissions for each affected emission unit. Summarized below in Table 1 is data showing emissions increases and applicable application fees.

Table 1. Potential Emissions Increase and Applicable Fees

Source ID	VOC Potential Emissions (tpy)				Fee[c]
	0050056-002 AF	0050056-004 AC	Permit Application (01/2001)	Change in Emissions[a]	
001 – VCU	25.56	25.56	66.6	41.04	$2,000
002 – Gasoline / Av Gas Tanks	18.33	10.29	16.6	See Note b	$250
003 – Diesel / Jet A Tanks	0.49	0.49	0.783	0.293	$250
004 – Additive / Transmix Tanks	1.03	4.88	2.18	- 2.7	$250
005 – Other Tanks	0.01	0.01	1.21	1.2	$250
006 – Fugitives	3.47	3.47	1.02	-2.45	$250

a The values in this column were calculated by subtracting emissions values in the Permit Application from emissions values provided in 0050056-004-AC.

b Potential emissions of 10.9 tpy in 0050056-004-AC were estimated with Tank 01 as out-of-service. Since Tank 01 has not gone out-of-service and Chevron intends to keep this tank in-service, Chevron does not believe this value is accurate for estimating fees. Old potential emissions are likely closer to 10.29 tpy + 6.74 tpy (value from EPA's TANKS v4.09 report for Tank 01) = 17.03 tpy. This results in a change of emissions of 16.6 tpy – 17.03 tpy = - 0.43 tpy. Since this emissions change is less than 1 tpy, a $250 fee should be submitted for this emissions unit.

c Fees are based on fee rate schedule found in F.A.C 62-4.050.

Your second comment requested information regarding the control of slotted guidepoles for floating roof tanks. Chevron has joined the partnership created by the United States Environmental Protection Agency (EPA) for voluntarily controlling emissions from slotted guidepoles. As part of this agreement, Chevron will install required controls for slotted guidepoles in Tanks 66, 78 and 84 by April 12, 2010. The guidepoles in Tanks 01 and 67 are not slotted but are of a welded design. The TANKS v4.09 reports attached after this letter include emissions from slotted and unslotted guidepoles. Guidepole emissions are also included in the proposed revised facility-wide VOC emissions limit of 88.3 tpy.

As per your last two comments, revised application text page 1-5 and application form page 4 with the appropriate check and professional engineer's stamp are also enclosed with this letter.

If you have any questions please contact me at (850) 785-7426.

Sincerely,

Terry Franklin

Terry Franklin
Terminal Manager

cc: Bob Kriegel, FDEP
Louis Milkint, Chevron Products Company

Enclosures (3 copies of application replacement pages)

Chevron Products Company
Panama City Terminal

Replacement Pages for Construction Permit Application
0050056-005-AC

1.1 Proposed Construction Project Description

To meet the petroleum product supply requirements of area businesses after the Citgo terminal closes, Chevron proposes to install a third loading lane to its loading rack operations and to modify the loading rack's current permitted throughput limits as follows:

- Change the maximum allowable hourly operating rate of the loading rack from 64,000 gallons per hour to 96,000 gallons per hour (See Appendix A, Attachment D for design specification data for the vapor combustion unit (VCU));
- Change the maximum allowable annual throughput limit for high volatile products (gasoline, aviation gasoline) from 146,240,000 gallons per year to 325,760,000 gallons per year; and
- Change the maximum allowable annual throughput limit for low volatile products (diesel, Jet A) from 28,760,000 gallons per year to 57,490,000 gallons per year.

Also, Chevron proposes to change the terminal's maximum allowable VOC emissions rate as follows.

- Change the facility-wide maximum allowable VOC emissions rate from 48.9 tons per year to 88.3 tons per year.

In addition, Chevron proposes to include the following existing tanks in its current operating permit.

- Tank 02 – Tank for storing fire protection water
- Tank 14 – 12,000 gallon fixed roof tank for storing additive
- PT #1 – Underground 12,000 gallon process tank (PT) for collecting petroleum contaminated water (PCW) from the loading rack and storage tank areas before the PCW is sent to the oil/water separator (O/S #1)
- PT #2 – Underground 126 gallon process tank for collecting PCW from the dock drain before the PCW is sent to O/S #1

Other proposed changes to the facility include altering the configuration of select storage tanks as described below.

- Tank 03 – removed
- Tank 95 – changing tank service from containing additive to empty/out-of-service
- O/S #2 – delete this unit ID since it erroneously refers to either PT #1 or PT #2

Lastly, Permit No. 0050056004AC was amended on 08/12/97 to include Tank 1 as being taken out-of-service and to show Tank 66 has being retrofitted with an internal floating roof prior to changing the service of Tank 66 from diesel to gasoline. With the added business of providing petroleum product to customers once served by the closing Citgo terminal, Chevron will leave Tank 1 in gasoline service. The retrofit of Tank 66 with an internal floating roof has been completed. To meet the requirements of 40 CFR 60.112b(a)(1), Tank 66 has an internal floating roof with primary seals (mechanical shoe) and secondary seals (shoe mounted). Permit No. 0050056004AC was amended again on 06/09/98 to include the installation of Tanks 22 and 23. These fixed roof additive tanks have been installed at the terminal. Emissions estimates (see Appendix B) include emissions from the operation of Tanks 1, 22, 23 and the retrofitted Tank 66.

Table 1-1 on the following page summarizes the proposed tank configuration data for the modified Panama City terminal.

1.2 Application Contacts

The Contact Person for additional information about this permit application submittal is Louis Milkint, Terminal Environmental, Health, & Safety Specialist. Mr. Milkint can be reached by telephone at (770) 984-3016.

1.3 Conclusions

The documentation provided in this permit application supports the conclusion that the proposed modified facility would not result in an increase of facility-wide actual emissions above FESOP applicability thresholds (VOC $\leq$ 99.9 tpy; total HAP $\leq$ 24.9 tpy; and individual HAP $\leq$ 9.9 tpy). Based on the specifications for the facility and estimated emission rates, Chevron has demonstrated compliance with all applicable air regulatory requirements. A $3,250 application fee is required for this application (EU 001 - $2,000; EU 002 - $250; EU 003 - $250, EU 004 - $ 250; EU 005 - $250; and EU 006 - $250).

Table 1-1. Chevron Panama City Terminal
Modified 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 66	002	Internal Floating Roof Storage Tank (703,374 gal)	✓	
Tank 67	002	Internal Floating Roof Storage Tank (699,552 gal)	✓	
Tank 78	002	Internal Floating Roof Storage Tank (1,053,990 gal)	✓	
Tank 84	002	External Floating Roof (Domed) (1,103,940)	✓	
Tank 25	003	Fixed Roof Storage Tank (852,222 gal)		✓
Tank 62	003	Fixed Roof Storage Tank (211,492 gal)		✓
Tank 63	003	Fixed Roof Storage Tank (211,492 gal)		✓
Tank 14	004	Fixed Roof Storage Tank (12,000 gal)		✓
Tank 17	004	Fixed Roof Storage Tank (5,838 gal)		✓
Tank 18	004	Fixed Roof Storage Tank (4,000 gal)		✓
Tank 20	004	Fixed Roof Storage Tank (250 gal)	See Note a	See Note a
Tank 21	004	Fixed Roof Storage Tank (5,800 gal)		✓
Tank 22	004	Fixed Roof Storage Tank (8,148 gal)		✓
Tank 23	004	Fixed Roof Storage Tank (3,906 gal)		✓
Tank 96[b]	004	Fixed Roof Storage Tank (11,550 gal)	✓	
O/S #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
PT #2[d]	005	Underground Process Tank for PCW (126 gal)	See Note c	See Note c
Tank 2	005	Fire Protection Water	N/A	N/A
Tank Ev.	005	Water Evaporation Tank[f]	N/A	N/A
Fl/V/Pu	006	Flanges/valves/pumps	✓	
Truck	006	Tank Truck Loading	N/A	N/A

a. This is the Flare Drop-out Tank. This tank is currently dry.
b. Tank 96 contains slop which may consist of any mixture of products stored at this facility (i.e., gasoline, diesel, water, etc.). For emissions estimation purposes, slop is simulated as gasoline, which is the most volatile product currently handled at this terminal.
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. For emissions estimation purposes, the oil component of PCW is assumed to be gasoline.
d. These units are process tanks (PT). PT #1 collects PCW from the loading rack and storage tank areas before sending the PCW to O/S #1. PT #2 collects PCW from the Dock Drain before sending the PCW to O/S #1.
e. This tank stores "clean" water that is evaporated to the atmosphere.

3.0 Emission Estimates

Emission estimates for regulated air pollutants for the proposed modified facility were calculated. These estimates provide the basis for the regulatory conclusions documented in this permit application. A detailed description of the calculations and documentation supporting the emission estimates presented in this permit application are included in Appendix B.

3.1 Modified Facility Emissions

The Panama City terminal is currently operating under a Federally Enforceable State Operating Permit. The FESOP operating permit is intended to prevent the facility from being classified as a major source under the Title V Operating Permit program. Therefore, limited potential emissions of regulated pollutants from the proposed modified facility were calculated to determine compliance with the proposed FESOP emissions limitations and are presented in Table 3.1.

Table 3.1 Panama City Terminal: Modified Facility Limited Potential Emissions

Pollutant	Modified Facility Future Actual Emissions (tons/year)	Synthetic Minor Applicability Limits	Emissions Below Major Source Status Threshold (Y/N)
CO	11.1	≤99.9 tpy	Y
NOx	2.04	≤99.9 tpy	Y
PM	1.13	≤99.9 tpy	Y
VOC	88.3	≤99.9 tpy	Y
Individual HAP[a]	2.24	≤9.9 tpy	Y
Total HAPs	5.56	≤24.9 tpy	Y

a Emissions for individual HAP are equal to emissions from the worst-case emitting HAP (i.e., hexane).

3.2 Emissions Estimation Methods

The emission estimates detailed in Appendix B of this application were performed using the following methods:

- For tank standing and working losses: EPA TANKS (Version 4.07);
- For loading racks: 35 mg/L as required by permit for gasoline products and EPA AP-42 equations for non-gasoline products;

Table 4-1 Summary of Applicability of 40 CFR 60 Subpart K, Ka and Kb

Group ID	Source ID	Tank Description	Installation (Modification) Date	Subject to Subpart K, Ka or Kb (Y/N)
Tank 01	002	Internal Floating Roof Storage Tank (1,932,000)	01/1936 (before 06/11/1973)	No
Tank 66	002	Internal Floating Roof Storage Tank (703,374 gal)	07/1951 (1997)	Yes
Tank 67	002	Internal Floating Roof Storage Tank (699,552 gal)	01/1951	No
Tank 78	002	Internal Floating Roof Storage Tank (1,053,990 gal)	07/1951	No
Tank 84	002	External Floating Roof (Domed) (1,103,940)	1958	No
Tank 25	003	Fixed Roof Storage Tank (852,222 gal)	01/1940	No
Tank 62	003	Fixed Roof Storage Tank (211,492 gal)	Before 06/11/1973	No
Tank 63	003	Fixed Roof Storage Tank (211,492 gal)	Before 06/11/1973	No
Tank 14	004	Fixed Roof Storage Tank (12,000 gal)	2000	Yes
Tank 17	004	Fixed Roof Storage Tank (5,838 gal)	08/1991	No
Tank 18	004	Fixed Roof Storage Tank (4,000 gal)	11/1993	No
Tank 20	004	Fixed Roof Storage Tank (250 gal)	1993	No
Tank 21	004	Fixed Roof Storage Tank (5,800 gal)	11/1994	No
Tank 22	004	Fixed Roof Storage Tank (8,148 gal)	1995	No
Tank 23	004	Fixed Roof Storage Tank (3,906 gal)	1998	No
Tank 96	004	Fixed Roof Storage Tank (11,550 gal)	01/1975	No
O/S #1	005	Oil/Water Separator	2000	No
PT #1	005	Underground Process Tank for PCW (12,000 gal)	2000	No
PT #2	005	Underground Process Tank for PCW (126 gal)	2000	No
Tank 2	005	Fire Protection Water	01/1936	No
Tank Ev.	005	Water Evaporation Tank	Not Available	No

4.4 Other Federal and State Regulations

An applicability and compliance review for other federal and state regulations that specifically apply to the proposed project are summarized in Table 4.1. The current and proposed modified facility are considered to be in compliance with all generally-applicable regulations (e.g., definitions, open burning, test methods); therefore, these regulations are not discussed in this section.

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.

Signature: _____ Date: 30, 2001

(seal)

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Chevron's Panama City terminal is proposing to install a third loading lane to its loading rack operations (Group ID 001). Chevron is also proposing to increase their hourly throughput limit to 96,000 gallon total product/hr and their annual throughput limits to 325,760,000 gallon/yr of high volatile products (gasoline, aviation gasoline) and 57,490,000 gallon/yr of low volatile products (diesel, Jet A). In addition, Chevron is proposing to increase their maximum allowable VOC emissions limit to 88.3 tpy. Lastly, Chevron is proposing to make modifications to the terminal's tank configuration setup (e.g., removing tanks, changing tank contents, etc.). Based on emissions estimates (see Appendix B), 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: Early 2001

3. Projected Date of Completion of Construction: December 1, 2001

Application Comment

This submittal is for an application to construct and modify emissions units for a synthetic non-Title V source.

Based on the proposed throughput limits for the modified facility, Chevron expects emissions from the Panama City terminal to remain below major source thresholds of VOC, CO, NOx and PM < 100 tpy, total HAP < 25 tpy, and individual HAP < 10 tpy. See Appendix B for the emissions calculations.

Chevron is not seeking limits on total HAP or individual HAP emissions since emissions from these compounds at the loading rack's maximum throughput capacity (96,000 gal/hr) and maximum allowable emissions rate (35 mg/L) are below major source thresholds (total HAP < 25 tpy and individual HAP < 10 tpy).

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	See Note 1 Below

1. Chevron proposes to increase their maximum allowable VOC emissions limit from 48.9 tpy to 88.3 tpy.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 23	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: 99.32
6. Potential Emissions: 15.2 lb/hour 66.6 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: Reference: See Comments		9. Emissions Method Code: 0, 3, 5

10. Calculation of Emissions (limit to 600 characters):

VOC and HAP emissions were calculated using the existing VOC emissions limit on the loading rack of 35 mg/L for loading of gasoline and aviation gasoline. AP-42 equations were used to estimate losses for the loading of all other products (diesel, Jet A, additive). See Appendix B for a detailed explanation of emissions estimates.

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions ___1___ of ___1___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 35 mg VOC / L gasoline loaded	4. Equivalent Allowable Emissions: lb/hour

5. Method of Compliance (limit to 60 characters):
Periodic source tests. Manufacturer design specifications.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

This allowable limit is based on requirements of 40 CFR 60.502(b). Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).

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.

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

Gasoline and Aviation Gasoline Storage Tanks

3. Emissions Unit Identification Number: ID: 002		[ ] No ID [ ] ID Unknown
4. Emissions Unit Status Code: A	5. Initial Startup Date: See Comments	6. Emissions Unit Major Group SIC Code: 51

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

002 includes a collectively regulated group of storage tanks (Tank Nos. 01, 66, 67, 78 and 84). Tanks 01, 66, 67, 78 and 84 are tanks with a storage capacity > 42,000 gallons storing products with a vapor pressure > 1.5 psia. Tanks 01, 66, 67 and 78 have internal floating roofs. Tank 84 has an external floating roof with a geodesic dome cover.

Tank 66 is subject to the requirements of 40 CFR 60 Subpart Kb.

Startup Dates: Tank 01 (01/36; mod. before 06/73),
Tank 66 (07/51; mod. 1997), Tank 67 (01/51), Tank 78 (07/51), Tank 84 (1958).

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Tanks 01, 62, 63, 66 and 78 have internal floating roofs. Tank 84 has a geodesic domed external floating roof. Tank 66 is a welded tank with a mechanical shoe primary seal and a shoe mounted secondary seal to comply with 40 CFR 60.112b(a)(1)(ii).
2. Control Device or Method Code(s): 99

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 proposes to limit hourly throughput to 96,000 gal total product/hour and annual throughput to 325,760,000 gal/yr for high volatile products and 57,490,000 gal/yr 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):

Tank Nos. 01, 66, 67, 78 and 84.

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
002 - Petroleum liquid storage tanks storing gasoline and aviation gasoline and having floating roofs.

5. Discharge Type Code: P	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: 76 °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %

11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: 29 feet

13. Emission Point UTM Coordinates:

Zone: East (km): North (km):

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 any storage tank in this emission unit.

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: 3.76 lb/hour 16.6 tpy		7. Synthetically Limited? [X]
8. Emission Factor: Reference: EPAs TANKS v4.07		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

VOC and HAP emissions from tank standing and working losses were calculated using EPAs TANKS v4.09. See Appendix B for a detailed explanation of emissions estimates.

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

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: EL
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.18 lb/hour 0.78 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: Reference: EPAs TANKS v4.07		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): VOC and HAP emissions from tank standing and working losses were calculated using EPAs TANKS v4.07. See Appendix B for a detailed explanation of emissions estimates.		
12. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions ____1__ of ___1___

2. Basis for Allowable Emissions Code: See Comments	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).	

Emissions Unit Information Section ___4___ of ___6___

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:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.5 lb/hour 2.18 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: Reference: EPAs TANKS v4.07		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): VOC and HAP emissions from tank standing and working losses were calculated using EPAs TANKS v4.07. See Appendix B for a detailed explanation of emissions estimates.		
13. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __1____ of ___1__

3. Basis for Allowable Emissions Code: See Comments	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.28 lb/hour 1.21 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: Reference: EPAs TANKS v4.07		9. Emissions Method Code: 3

10. Calculation of Emissions (limit to 600 characters):

VOC and HAP emissions from tank standing and working losses were calculated using EPAs TANKS v4.07. See Appendix B for a detailed explanation of emissions estimates.

14. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions __1____ of __1____

4. Basis for Allowable Emissions Code: See Comments	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.23 lb/hour 1.02 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: Reference: See Comments		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

VOC and HAP emissions from tank truck losses were estimated using the worst case emission factor of 13 mg/L of gasoline loaded (see Attachment 8 of calculations). VOC and HAP emissions from piping component losses were estimated using leak factors from the American Petroleum Institute (API). See Appendix B for a detailed explanation of emissions estimates.

15. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions ___1___ of ___1___

6. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Chevron is seeking facility-wide emission limits for VOC (< 88.3 tpy).

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

Identification

User Identification:	PC-1
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Internal Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	96.00
Volume (gallons):	1,932,000.00
Turnovers:	65.00
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:	Vapor-mounted
Secondary Seal:	None

Deck Characteristics

Deck Fitting Category:	Detail
Deck Type:	Bolted
Construction:	Sheet
Deck Seam:	Sheet: 5 Ft Wide
Deck Seam Len. (ft):	1,448.00

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

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

Unslotted Guide-Pole Well/Ungasketed Sliding Cover 1

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 13.5)	Jan	62.25	58.21	66.29	68.10	7.5310	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.5)	Feb	63.63	59.26	67.99	68.10	7.7246	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 11.5)	Mar	66.80	62.19	71.42	68.10	6.8468	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Apr	70.27	65.08	75.46	68.10	7.3013	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 7.8)	May	73.50	68.14	78.87	68.10	5.0824	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jun	75.89	70.77	81.00	68.10	5.3204	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jul	76.39	71.71	81.06	68.10	5.3713	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Aug	76.17	71.61	80.74	68.10	5.3495	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 11.5)	Sep	74.78	70.36	79.20	68.10	7.9280	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Oct	70.84	66.06	75.62	68.10	7.3787	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Nov	66.75	62.36	71.13	68.10	6.8398	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 13.5)	Dec	63.57	59.53	67.60	68.10	7.7160	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, 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):	626.3877	649.7025	548.3291	599.4500	372.8017	394.6284	399.3715	397.3396	674.8379	608.4345	547.5628	648.6596
Seal Factor A (lb-mole/ft-yr):	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.5310	7.7246	6.8468	7.3013	5.0824	5.3204	5.3713	5.3495	7.9280	7.3787	6.8398	7.7160
Tank Diameter (ft):	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000
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):	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279	22.0279
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.):	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00	10,465,000.00
	00	00	00	00	00	00	00	00	00	00	00	00
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):	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000
Deck Fitting Losses (lb):	402.2048	417.1753	352.0832	384.9080	239.3767	253.3917	256.4372	255.1326	433.3147	390.6770	351.5912	416.5056
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
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):	251.3647	260.7207	220.0404	240.5548	149.6025	158.3614	160.2648	159.4494	270.8074	244.1602	219.7329	260.3022
Deck Seam Length (ft):	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000	1,448.0000
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):	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000
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	351.2643
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	140.4917
Roof Leg or Hanger Well/Adjustable	30	7.90	0.00	0.00	2,378.3233
Stub Drain (1-in. Diameter)/	74	1.20	0.00	0.00	891.1186
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	62.2177
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1	31.00	150.00	1.40	311.0887

Total Losses (lb):	1,301.9851	1,349.6264	1,142.4806	1,246.9407	783.8089	828.4095	838.1014	833.9495	1,400.9878	1,265.2997	1,140.9148	1,347.4953

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.5)	1,924.75	66.08	1,235.89	772.39	3,999.11
Chevron-Gasoline(RVP 11.5)	2,978.61	110.14	1,912.57	1,195.30	6,196.62
Chevron-Gasoline(RVP 7.8)	1,564.14	88.11	1,004.34	627.68	3,284.27
Total:	6,467.51	264.33	4,152.80	2,595.36	13,480.00

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

Identification

User Identification:	PC-66
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Internal Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	54.00
Volume (gallons):	703,374.00
Turnovers:	65.30
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:	Shoe-mounted

Deck Characteristics

Deck Fitting Category:	Detail
Deck Type:	Welded

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	16
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	1

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 13.5)	Jan	62.25	58.21	66.29	68.10	7.5310	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.5)	Feb	63.63	59.26	67.99	68.10	7.7246	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 11.5)	Mar	66.80	62.19	71.42	68.10	6.8468	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Apr	70.27	65.08	75.46	68.10	7.3013	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 7.8)	May	73.50	68.14	78.87	68.10	5.0824	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jun	75.89	70.77	81.00	68.10	5.3204	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jul	76.39	71.71	81.06	68.10	5.3713	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Aug	76.17	71.61	80.74	68.10	5.3495	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 11.5)	Sep	74.78	70.36	79.20	68.10	7.9280	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Oct	70.84	66.06	75.62	68.10	7.3787	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Nov	66.75	62.36	71.13	68.10	6.8398	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 13.5)	Dec	63.57	59.53	67.60	68.10	7.7160	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, 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):	84.1416	87.2735	73.6562	80.5231	50.0778	53.0098	53.6469	53.3740	90.6499	81.7300	73.5532	87.1334
Seal Factor A (lb-mole/ft-yr):	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000
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:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.5310	7.7246	6.8468	7.3013	5.0824	5.3204	5.3713	5.3495	7.9280	7.3787	6.8398	7.7160
Tank Diameter (ft):	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000
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):	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228	14.3228
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.):	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850	3,827,526.850
	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):	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000
Deck Fitting Losses (lb):	231.3895	240.0020	202.5544	221.4386	137.7141	145.7769	147.5290	146.7784	249.2871	224.7575	202.2713	239.6168
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
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):	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000	237.6000
Deck Seam Losses (lb):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Deck Seam Length (ft):	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000	458.0000
Deck Seam Loss per Unit Length Factor (lb-mole/ft-yr):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Deck Seam Length Factor(ft/sqft):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tank Diameter (ft):	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000	54.0000
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	361.2643
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	140.4917
Roof Leg or Hanger Well/Adjustable	16	7.90	0.00	0.00	1,268.4391
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.00	0.00	0.00	120.4214
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	62.2177
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	1	43.00	270.00	1.40	431.5101

Total Losses (lb):	329.8540	341.5984	290.5334	316.2846	202.1148	213.1096	215.4988	214.4753	354.2598	320.8104	290.1474	341.0730

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.5)	258.55	42.97	711.01	0.00	1,012.53
Chevron-Gasoline(RVP 11.5)	400.11	71.61	1,100.31	0.00	1,572.04
Chevron-Gasoline(RVP 7.8)	210.11	57.29	577.80	0.00	845.20
Total:	868.77	171.87	2,389.12	0.00	3,429.76

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

Identification

User Identification:	PC-67
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Internal Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	54.80
Volume (gallons):	699,552.00
Turnovers:	17.80
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:	Vapor-mounted
Secondary Seal:	None

Deck Characteristics

Deck Fitting Category:	Detail
Deck Type:	Bolted
Construction:	Sheet
Deck Seam:	Sheet: 5 Ft Wide
Deck Seam Len. (ft):	472.00

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	16
Stub Drain (1-in. Diameter)/	25
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1

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

Unslotted Guide-Pole Well/Ungasketed Sliding Cover 1

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
Aviation Gasoline	Jan	62.25	58.21	66.29	68.10	3.5418	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Feb	63.63	59.26	67.99	68.10	3.6431	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Mar	66.80	62.19	71.42	68.10	3.8857	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Apr	70.27	65.08	75.46	68.10	4.1656	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	May	73.50	68.14	78.87	68.10	4.4409	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Jun	75.89	70.77	81.00	68.10	4.6533	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Jul	76.39	71.71	81.06	68.10	4.6989	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Aug	76.17	71.61	80.74	68.10	4.6794	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Sep	74.78	70.36	79.20	68.10	4.5538	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Oct	70.84	66.06	75.62	68.10	4.2134	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Nov	66.75	62.36	71.13	68.10	3.8814	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6
Aviation Gasoline	Dec	63.57	59.53	67.60	68.10	3.6386	N/A	N/A	66.0000			66.00	Option 4: RVP=6.9, ASTM Slope=2.6

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):	138.6052	143.1757	154.2824	167.3966	180.6276	191.0664	193.3309	192.3610	186.1503	169.5686	154.0834	142.9726
Seal Factor A (lb-mole/ft-yr):	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
Value of Vapor Pressure Function:	0.0686	0.0709	0.0764	0.0829	0.0894	0.0946	0.0957	0.0953	0.0922	0.0840	0.0763	0.0708
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	3.5418	3.6431	3.8857	4.1656	4.4409	4.6533	4.6989	4.6794	4.5538	4.2134	3.8814	3.6386
Tank Diameter (ft):	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000
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):	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263	3.8263
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.):	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800	1,037,668.800
	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):	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000
Deck Fitting Losses (lb):	91.9605	94.9929	102.3619	111.0628	119.8411	126.7670	128.2694	127.6259	123.5053	112.5702	102.2299	94.8581
Value of Vapor Pressure Function:	0.0686	0.0709	0.0764	0.0829	0.0894	0.0946	0.0957	0.0953	0.0922	0.0840	0.0763	0.0708
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):	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000	243.6000
Deck Seam Losses (lb):	31.7618	32.8091	35.3542	38.3594	41.3913	43.7834	44.3023	44.0800	42.6569	38.8800	35.3087	32.7626
Deck Seam Length (ft):	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000	472.0000
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):	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001	0.2001
Tank Diameter (ft):	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000	54.8000
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	197.5948
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	76.8424
Roof Leg or Hanger Well/Adjustable	16	7.90	0.00	0.00	693.7774
Stub Drain (1-in. Diameter)/	25	1.20	0.00	0.00	164.6623
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	34.0302
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1	31.00	150.00	1.40	170.1511

Total Losses (lb):	266.1538	274.8041	295.8249	320.6452	345.6864	365.4431	369.7290	367.8932	356.1389	324.9451	295.4483	274.4196

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Aviation Gasoline	2,013.72	45.92	1,336.05	461.45	3,857.13

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

Identification

User Identification:	PC-78
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Internal Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	67.00
Volume (gallons):	1,053,990.00
Turnovers:	65.40
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:	Vapor-mounted
Secondary Seal:	None

Deck Characteristics

Deck Fitting Category:	Detail
Deck Type:	Bolted
Construction:	Sheet
Deck Seam:	Sheet: 5 Ft Wide
Deck Seam Len. (ft):	705.00

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	20
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Stub Drain (1-in. Diameter)/	36

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

Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	2

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 13.5)	Jan	62.25	58.21	66.29	68.10	7.5310	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.5)	Feb	63.63	59.26	67.99	68.10	7.7246	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 11.5)	Mar	66.80	62.19	71.42	68.10	6.8468	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Apr	70.27	65.08	75.46	68.10	7.3013	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 7.8)	May	73.50	68.14	78.87	68.10	5.0824	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jun	75.89	70.77	81.00	68.10	5.3204	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jul	76.39	71.71	81.06	68.10	5.3713	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Aug	76.17	71.61	80.74	68.10	5.3495	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 11.5)	Sep	74.78	70.36	79.20	68.10	7.9280	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Oct	70.84	66.06	75.62	68.10	7.3787	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Nov	66.75	62.36	71.13	68.10	6.8398	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 13.5)	Dec	63.57	59.53	67.60	68.10	7.7160	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, 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):	437.1664	453.4382	382.6880	418.3661	260.1845	275.4178	278.7280	277.3099	470.9806	424.6366	382.1532	452.7103
Seal Factor A (lb-mole/ft-yr):	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000	6.7000
Seal Factor B (lb-mole/ft-yr (mph)^n):	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.5310	7.7246	6.8468	7.3013	5.0824	5.3204	5.3713	5.3495	7.9280	7.3787	6.8398	7.7160
Tank Diameter (ft):	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000
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):	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246	17.3246
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.):	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500	5,744,245.500
	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):	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000
Deck Fitting Losses (lb):	346.1104	358.9929	302.9791	331.2259	205.9915	218.0518	220.6726	219.5499	372.8815	336.1904	302.5557	358.4167
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
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):	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000	355.4000
Deck Seam Losses (lb):	122.3841	126.9393	107.1329	117.1209	72.8382	77.1028	78.0295	77.6325	131.8503	118.8764	106.9832	126.7355
Deck Seam Length (ft):	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000	705.0000
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):	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000	67.0000
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	Deck Fitting Loss Factors KFa (lb-mole/yr)	KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1	36.00	5.90	1.20	361.2643
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	140.4917
Roof Leg or Hanger Well/Adjustable	20	7.90	0.00	0.00	1,585.5489
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1	12.00	0.00	0.00	120.4214
Stub Drain (1-in. Diameter)/	36	1.20	0.00	0.00	433.5172
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	62.2177
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	2	43.00	270.00	1.40	863.0203

Total Losses (lb):	922.9855	956.6950	810.1247	884.0376	556.3389	587.8970	594.7547	591.8169	993.0369	897.0279	809.0167	955.1872

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.5)	1,343.31	51.97	1,063.52	376.06	2,834.87
Chevron-Gasoline(RVP 11.5)	2,078.82	86.62	1,645.83	581.96	4,393.24
Chevron-Gasoline(RVP 7.8)	1,091.64	69.30	864.27	305.60	2,330.81
Total:	4,513.78	207.90	3,573.62	1,263.63	9,558.92

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.5)	1,343.31	51.97	1,063.52	376.06	2,834.87
Chevron-Gasoline(RVP 11.5)	2,078.82	86.62	1,645.83	581.96	4,393.24
Chevron-Gasoline(RVP 7.8)	1,091.64	69.30	864.27	305.60	2,330.81
Total:	4,513.78	207.90	3,573.62	1,263.63	9,558.92

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

Identification

User Identification:	PC-84
City:	Panama City
State:	FL
Company:	Chevron Products Company
Type of Tank:	Domed External Floating Roof Tank
Description:	

Tank Dimensions

Diameter (ft):	68.50
Volume (gallons):	1,103,940.00
Turnovers:	64.40

Paint Characteristics

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

Roof Characteristics

Type:	Double Deck
Fitting Category:	Detail

Tank Construction and Rim-Seal System

Construction:	Welded
Primary Seal:	Mechanical Shoe
Secondary Seal:	Shoe-mounted

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Roof Drain (3-in. Diameter)/Open	1
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	13
Rim Vent (6-in. Diameter)/Weighted Mech. Actuation, Gask.	1
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	2

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 13.5)	Jan	62.25	58.21	66.29	68.10	7.5310	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 13.5)	Feb	63.63	59.26	67.99	68.10	7.7246	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, ASTM Slope=2.9
Chevron-Gasoline(RVP 11.5)	Mar	66.80	62.19	71.42	68.10	6.8468	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Apr	70.27	65.08	75.46	68.10	7.3013	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 7.8)	May	73.50	68.14	78.87	68.10	5.0824	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jun	75.89	70.77	81.00	68.10	5.3204	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Jul	76.39	71.71	81.06	68.10	5.3713	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 7.8)	Aug	76.17	71.61	80.74	68.10	5.3495	N/A	N/A	66.0000			100.00	Option 4: RVP=7.8, ASTM Slope=2.7
Chevron-Gasoline(RVP 11.5)	Sep	74.78	70.36	79.20	68.10	7.9280	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Oct	70.84	66.06	75.62	68.10	7.3787	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 11.5)	Nov	66.75	62.36	71.13	68.10	6.8398	N/A	N/A	66.0000			100.00	Option 4: RVP=11.5, ASTM Slope=2.8
Chevron-Gasoline(RVP 13.5)	Dec	63.57	59.53	67.60	68.10	7.7160	N/A	N/A	66.0000			100.00	Option 4: RVP=13.5, 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):	106.7352	110.7080	93.4342	102.1451	63.5247	67.2439	68.0521	67.7059	114.9910	103.6760	93.3036	110.5303
Seal Factor A (lb-mole/ft-yr):	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000
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
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Seal-related Wind Speed Exponent:	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000	1.6000
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.5310	7.7246	6.8468	7.3013	5.0824	5.3204	5.3713	5.3495	7.9280	7.3787	6.8398	7.7160
Tank Diameter (ft):	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000
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):	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769	17.4769
Net Throughput (gal/mo.):	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000	5,924,478.000
	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):	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000	68.5000
Roof Fitting Losses (lb):	148.1633	153.6781	129.6996	141.7915	88.1811	93.3439	94.4658	93.9851	159.6235	143.9167	129.5184	153.4314
Value of Vapor Pressure Function:	0.1771	0.1837	0.1550	0.1695	0.1054	0.1116	0.1129	0.1123	0.1908	0.1720	0.1548	0.1834
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):	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400	152.1400
Average Wind Speed (mph):	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Roof Fitting/Status	Quantity	KFa (lb-mole/yr)	Roof Fitting Loss Factors KFb (lb-mole/(yr mph^n))	m	Losses (lb.)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	16.0562
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	140.4917
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	62.2177
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1	31.00	150.00	1.40	311.0887
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1	0.47	0.02	0.97	4.7165
Roof Drain (3-in. Diameter)/Open	1	1.50	0.21	1.70	15.0527
Roof Leg (3-in. Diameter)/Adjustable, Double-Deck Roofs	13	0.82	0.53	0.14	106.9744
Rim Vent (6-in. Diameter)/Weighted Mech. Actuation, Gask.	1	0.71	0.10	1.00	7.1249
Slotted Guide-Pole/Sample Well/Ungask. Sliding Cover, w/o Float	2	43.00	270.00	1.40	863.0203

Total Losses (lb):	272.3754	281.8630	240.6107	261.4135	169.1826	178.0647	179.9948	179.1679	292.0914	265.0697	240.2989	281.4386

TANKS 4.0
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

	Losses(lbs)				
Components	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss	Total Emissions
Chevron-Gasoline(RVP 13.5)	327.97	52.43	455.27	0.00	835.68
Chevron-Gasoline(RVP 11.5)	507.55	87.38	704.55	0.00	1,299.48
Chevron-Gasoline(RVP 7.8)	266.53	69.91	369.98	0.00	706.41
Total:	1,102.05	209.72	1,529.80	0.00	2,841.57

TANKS 4.0
Emissions Report - Detail Format
Total Emissions Summaries - All Tanks in Report

Emissions Report for: January , February , March , April , May , June , July , August , September , October , November , December

Tank Identification				Losses (lbs)
PC-1	Chevron Products Company	Internal Floating Roof Tank	Panama City, FL	13,480.00
PC-66	Chevron Products Company	Internal Floating Roof Tank	Panama City, FL	3,429.76
PC-67	Chevron Products Company	Internal Floating Roof Tank	Panama City, FL	3,857.13
PC-78	Chevron Products Company	Internal Floating Roof Tank	Panama City, FL	9,558.92
PC-84	Chevron Products Company	Domed External Floating Roof Tank	Panama City, FL	2,841.57
Total Emissions for all Tanks:				33,167.38

Department of Environmental Protection

FILE COPY

Jeb Bush
Governor

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

David B. Struhs
Secretary

February 14, 2001

Terry Franklin
Terminal Manager
Chevron Products Company
525 West Beach Dr
Panama City FL 32401

Dear Mr. Franklin:

This is to acknowledge receipt of your revised application, file number 0050056-005-AC, received January 23, 2001 to increase the product throughput and to construct an additional loading lane at your Panama City Terminal. This letter constitutes notice that a permit will be required for your project pursuant to Chapter 403, Florida Statutes.

Your application for permit is incomplete. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

- Please identify the increase in emissions for each affected emission unit. We believe the submitted application fee is sufficient, based on the information provided. However, this may change, if additional information changes the application subtypes of individual emission units.

- Please provide information describing the slotted guidepoles in use in the facility's tanks with floating roofs. Recent information from the EPA indicates that uncontrolled slotted guidepoles do not comply with the NSPS "no visible gap" requirement, and that emissions from uncontrolled slotted guidepoles can exceed 25,000 pounds per year per tank under certain conditions (see pages 19891-19897, Federal Register, April 13, 2000, Volume 65, Number 72). Additionally, please advise whether these emissions are included in your emission estimates.

- We believe that Table 1.1 incorrectly identifies the applicable vapor pressures (< and > appear to be reversed), and should be corrected.

- The professional engineer's statement in Section 1 of the application should be checked and appropriately certified.

We did a preliminary review of the submitted application, and our notes are enclosed for your review and use.

We have enclosed a draft permit, which we believe includes the modifications and updated information resulting from this application. This draft permit includes two additional emission units for tanks subject to NSPS (Subpart Kb). We would appreciate your review of this draft, and any resultant comments.

The compliance issues associated with tank 66 still have not been addressed. An application must be made addressing the post-construction requirements of Subpart Kb and of permit 0050056-004-AC for this tank as soon as reasonably possible. (This enclosed draft construction permit requires application within 30 days of issuance of the permit.) Additionally, your existing operation permit (0050056-002-AF) expires September 23, 2001. Ideally, the renewal operation permit application can be made after the work addressed in the construction permit has been completed, addressing both the operation renewal and post-construction application requirements.

When referring to this project, please use the file number indicated above. If you have any questions, please contact Bob Kriegel at (850) 595-8364, extension 1231.

Sincerely,

Sandra F. Veazey

Sandra F. Veazey
Air Program Administrator

SFV:bkc

Enclosures
cc: Michael Van Briggle, P.E., URS Corporation