TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

J.C. Fledderjohn
Acting Regional Operations Manager
P.O. Box 839
Valley Forge, Pa. 19460

Dear Mr. Fledderjohn:

Enclosed is Permit Number AC 16-30937, dated July 25th 1980 to Mobil Oil Corporation issued pursuant to Section 403, Florida Statutes.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

Steve Smallwood
Bureau of Air Quality Management

Final Determination

Mobil Oil Corporation
1974 Tallyrand Road
Jacksonville, Florida

Construction Permit
Application Number:
AC 16-30937

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting
July 25, 1980

Mobil Oil Corporation Final Determination
For Gasoline Vapor Recovery System

The construction permit application from Mobil Oil Corporation for the installation of a gasoline vapor recovery system for their truck loading rack at their Jacksonville terminal has been reviewed by the Bureau of Air Quality Management. The technical evaluation and preliminary determination was completed on June 17, 1980. Notice of the Department's Intent to Issue was published in the Jacksonville Florida Times-Union on June 25, 1980. Copies of the preliminary determination were available for public inspection at Jacksonville Bio-Environmental Services, the FDER St. Johns River Subdistrict, and the Bureau of Air Quality Management.

No letters or comments were received concerning the application, therefore, the construction permit should be issued as proposed in the public review process.

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL REGULATION

CONSTRUCTION
PERMIT

31/16/0181/05

NO. AC 16-30937

MOBIL OIL CORPORATION
1974 TALLYRAND ROAD
JACKSONVILLE, FLORIDA
VAPOR RECOVERY SYSTEM

DATE OF ISSUANCE

25th July 1980

Jacob D. Varn

JACOB D. VARN
SECRETARY

DATE OF EXPIRATION

JUNE 30, 1981

DER FORM PERM 11-42

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICANT: Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19460

PERMIT/CERTIFICATION
NO. AC 16-30937

COUNTY: Duval

PROJECT: Vapor Recovery Unit

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the installation of, a vapor recovery unit for the truck loading rack at Mobil's gasoline terminal located at 1974 Tallyrand Road, Jacksonville, Florida. The UTM and latitude, longitude coordinates are UTM 439.650E, 335.7450N, and 38°20'54"N by 81°37'39"W respectively.

Construction shall be in accordance with the attached permit application, attached plans, documents and drawings except as otherwise noted on page 3, "Specific Conditions".

Attachments are as follows:

1. "Application to Construct Air Pollution Sources" DER form 17-1.122(16).

2. Additional information supplied from Mobil in response to letter of incompleteness, June 3, 1980.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed

PERMIT NO.: AC 16-30937
APPLICANT: Mobil Oil Corporation
Valley Forge, Pa. 19460

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

13. This permit also constitutes:

[ ] Determination of Best Available Control Technology (BACT)
[ ] Determination of Prevention of Significant Deterioration (PSD)
[ ] Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

PERMIT NO.: AC 16-30937
APPLICANT: Mobil Oil Corporation
Valley Forge, Pa. 19460

Specific Conditions

1. During the construction phrase, quarterly reports on construction progress, commencing three months after initiation of construction shall be submitted to the Bureau of Air Quality Management.

2. The maximum allowable VOC emissions from the vapor recovery unit are 16.62 tons per year.

3. The annual throughput of gasoline of the terminal should not significantly exceed 49.5 million gallons per year unless notification is given to the Department for approval.

4. Emission testing for VOC will be in arrordance with 17-2.16(7)(d) and prior to issuance of an operating permit.

5. Applicant shall provide the Department with 30 days notice prior to compliance testing. Following approval of test results and prior to 90 days before the expiration of this permit, a complete application for an Operating Permit shall be submitted to the DER St. Johns River Subdistrict office or its' designee. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration or receipt of an Operation Permit.

Jacob D. Varn

Jacob D. Varn,
Secretary

Expiration Date: June 30, 1981

Issued this 25TH day of July, 1980.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices And/Or To Other Than The Addressee

To: _____ Loctn.: _____

To: _____ Loctn.: _____

To: _____ Loctn.: _____

From: _____ Date: _____

TO: Jake Varn, Secretary, FDER
FROM: Steve Smallwood, Chief, BAQM
DATE: July 25, 1980
SUBJ: Approval and Signature of Attached Air Construction Permit described below.

Attached please find one Air Construction Permit for which the applicant is Mobil Oil Corporation. The proposed construction is for installation of a gasoline vapor recovery unit at Mobils' Jacksonville Terminal.

Day 90, after which the permit would be issued by default, is September 4, 1980.

The Bureau recommends your approval and signature.

Steve Smallwood, Chief
Bureau of Air Quality Management

H6 - Rev 7/76

Check Sheet

Company Name: MOBIL OIL CORPORATION
Permit Number: AC 16-30937
PSD Number:
Permit Engineer:

Application:

- [x] Initial Application
  - [x] Incompleteness Letters
  - [x] Responses
  - [ ] Waiver of Department Action
  - [ ] Department Response
  - [ ] Other

Cross References:

- [ ]
- [ ]
- [ ]

Intent:

- [ ] Intent to Issue
- [x] Notice of Intent to Issue
- [x] Technical Evaluation

OC97

- [ ] BACT Determination
- [x] Unsigned Permit

Correspondence with:

- [ ] EPA
- [ ] Park Services
- [ ] Other

- [ ] Proof of Publication
  - [ ] Petitions - (Related to extensions, hearings, etc.)
  - [ ] Waiver of Department Action
  - [ ] Other

Final Determination:

- [x] Final Determination
- [x] Signed Permit
- [x] BACT Determination
  - [ ] Other

Post Permit Correspondence:

- [x] Extensions/Amendments/Modifications
- [ ] Other

P1 MOBIL - P.E. INCOMPLETENESS LETTER

E. J. STUMP
MANAGER, LIGHT PRODUCT OPERATIONS
MOBIL OIL CORPORATION
P. O. BOX 389
VALLEY FORGE, PENNSYLVANIA 19482

DEAR MR. STUMP:

RE: APPLICATION TO CONSTRUCT AN AIR POLLUTION SOURCE NEAR SPANGLER BOULEVARD, PORT EVERGLADES, BROWARD COUNTY, FLORIDA; AC 06-115028

A REVIEW OF YOUR APPLICATION INDICATES THAT IT IS INCOMPLETE. THE FOLLOWING INFORMATION IS REQUIRED TO COMPLETE YOUR APPLICATION.

SECTION III - A. PRODUCT THROUGHPUT MUST BE GIVEN IN NON-AMBIGUOUS MANNER (REFERENCE TABLE 1. OF YOUR ATTACHMENTS TO APPLICATION)

SECTION III - D. UNDER FEDERAL NEW SOURCE PERFORMANCE STANDARDS AND FLORIDA'S 17.2 (FAC) THE PROPOSED PETROLEUM PRODUCT TANKS ARE REQUIRED TO HAVE A VAPOUR RECOVERY SYSTEM. THE SYSTEM'S DESIGN, CAPACITY, & CONNECTIONS THERETO ARE TO ACCOMPANY THIS APPLICATION.

Information to demonstrate that the input loading will not exceed capacity of vapor recovery system will be evaluated.

SECTION V - (2), (5). DIAGRAMS OF PROPOSED TANKS, LOADING RACKS, RECOVERY SYSTEM & ALL PIPING AS THEY WILL BE CONSTRUCTED.

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial / Date
1. BILL	
2. PATTY	
3.	
4.	

REMARKS:

① FOR SCREENING

② FOR PROCESSING

PLEASE & THANK YOU!

Let's talk about this
BT

INFORMATION

- Review & Return
- Review & File
- Initial & Forward

DISPOSITION

- Review & Respond
- Prepare Response
- For My Signature
- For Your Signature
- Let's Discuss
- Set Up Meeting
- Investigate & Report
- Initial & Forward
- Distribute
- Concurrence
- For Processing
- Initial & Return

FROM: Mike

DATE 11 JAN '86

PHONE X145

p2 MOBIL – P.E.

SECTION II-(5). A LEGIBLE FLOW DIAGRAM RELATING PRODUCT FLOW TO & BETWEEN ALL ELEMENTS OF THE PROPOSED CONSTRUCTION IS TO BE SUBMITTED.

PERMIT FEE OF $1,000. (17-4.05 FAC)

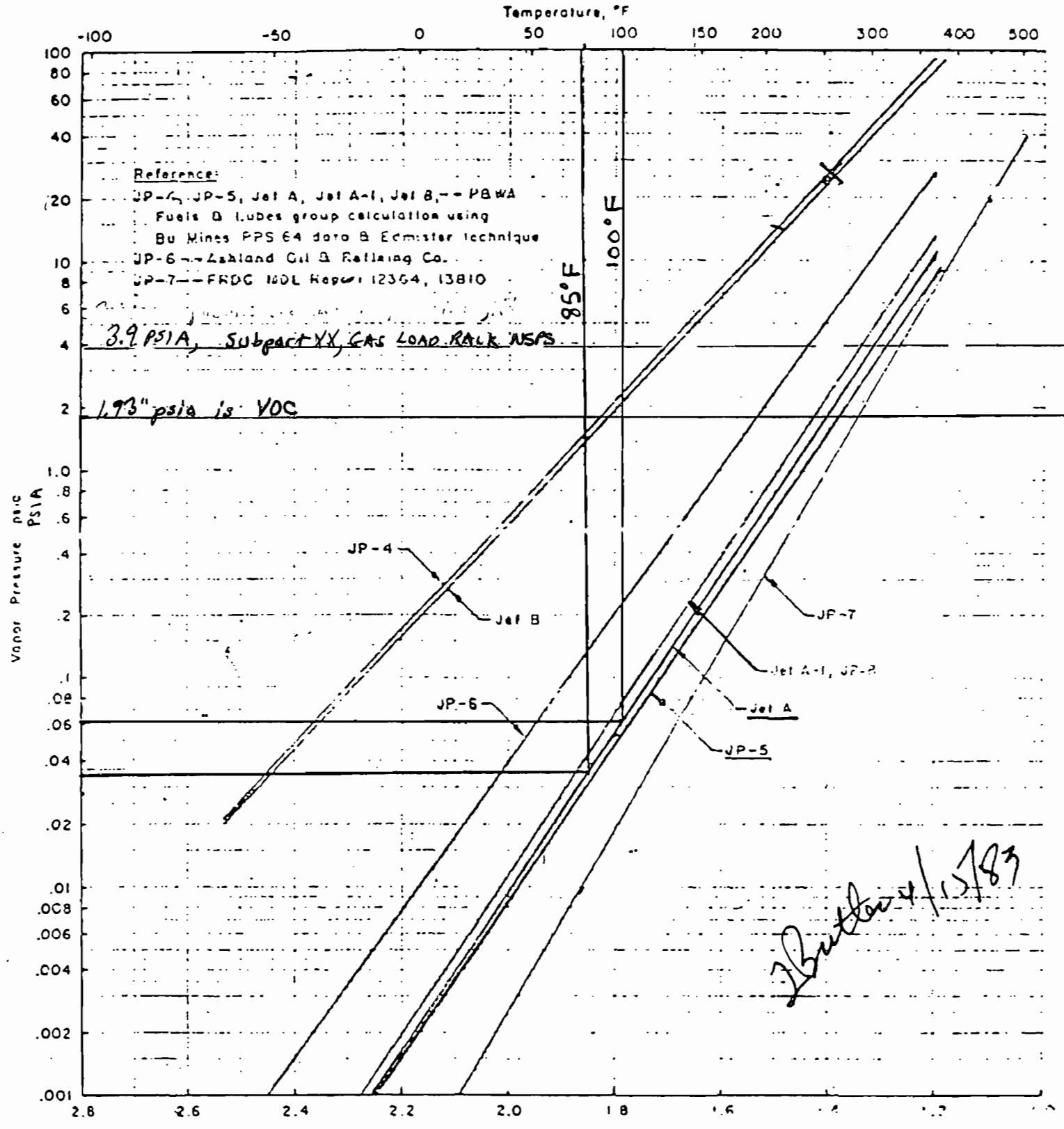
UPON RECEIPT OF THE AFOREMENTIONED, PROCESSESING OF YOUR APPLICATION WILL CONTINUE. IF THERE ARE ANY QUESTIONS PLEASE WRITE ME AT THE ABOVE ADDRESS OR CALL M.G. PHILLIPS AT (904) 488-1344.

SINCERELY

C.H. FANCY P.E.
DEPUTY CHIEF
BUREAU OF AIR QUALITY MANAGEMENT

xc
S.S. BROOKS – FDER (SEED)
J.E. BRENNAN P.E. – ENVIROPACT

ENVIROPACT ENGINEERING CO., INC
4790 NW 157TH ST
HIALEAH, FLORIDA 33014
ISADORE GOLDMAN



Typical Vapor Pressure of Turbine Engine Fuels

FIGURE 5

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

February 4, 1981

Mr. R. B. Maynard
Manager of Environmental
Conservation
Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19482

RE: Permit No. AC 16-30937
Your letter January 23, 1981

Dear Mr. Maynard:

Your request for increase from 49.5 to 55.0 million gallons annual throughput limit in Specific Condition #3 of the subject permit can be considered as a permit modification.

The establishment of such a limit is not only authorized but required by 17-4.23(2)(a) and 17-4.23(4)(a) FAC. The numerical value was based on the response by Mr. R. M. Maddalena of June 3, 1980 to our letter of May 27, 1980 citing items of incompleteness in your application. Based on your letter of December 23, 1980 it appears that the actual limit should have been 49.1 million gallons. The permit was issued July 25, 1980 and time for appeal has expired. In order for a substantive change as requested to be considered it must be applied for as a modification (17-2.02(81)). I have enclosed an application form for your convenience.

Bear in mind that this increase, if approved, would be included in the evaluation required by 17-2.17(7)(a) for any future modifications.

If I may be of further assistance please write or call me at (904) 488-1344.

Sincerely,

William A. Thomas,
Engineer
Bureau of Air Quality Management

WAT:caa

Mobil Oil Corporation

P.O. BOX 839
VALLEY FORGE, PENNSYLVANIA 19482

January 23, 1981

Mr. Steve Smallwood, P.E.
Chief, Bureau of Air Quality Management
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32301

PERMIT NO. AC 16-30937
MOBIL OIL CORPORATION
JACKSONVILLE TERMINAL

Dear Mr. Smallwood:

Reference your letter of December 23, 1980. The penultimate paragraph suggests applying for an amendment to the permit and including a new throughput that we would not expect to exceed.

In conformance with that direction, we request that our permit be amended to allow for a maximum throughput of 55.0 million gallons per year. This figure is based on our current DOE base allocation obligation of 51.0 million gallons plus an additional 4 million gallons for projected growth.

We believe that being constrained by the 49.5 million GPY condition of our existing permit is unreasonable based on the above factors. Namely, it is below current DOE allocation and because it permits no growth.

We would appreciate your prompt consideration and attention to this matter.

Very truly yours,

R. B. Maynard
Manager of
Environmental Conservation

RBM/jg
6443B

cc: L. A. Bradley
C. M. English - Jacksonville Terminal
P. A. Quarles
C. G. Schueler

Ok 17-4 -10%?

subject file

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

December 23, 1980

Mr. R. B. Maynard
Manager of Environmental Conservation
Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19482

Dear Mr. Maynard:

We are in receipt of your letter to Secretary Varn requesting deletion of Specific Condition #3 of Air Construction Permit No. AC 16-30937.

In the letter you gave two reasons why this condition, which limits total gasoline throughput to 49.5 million gallons annually, should be deleted from the permit. First, you say you cannot guarantee the throughput ceiling specified. Second, you do not believe Florida regulations authorize such a limitation.

Addressing your first point, if the maximum throughput is expected to exceed your earlier estimate of 49.5 million gallons/year, you should notify the Bureau that you wish to amend the permit to allow a greater annual throughput. The proposed amendment would need to be reviewed for compliance with state regulations and VOC growth allowances that would be available. But a finite throughput limit must be projected by you and adopted as part of the permit conditions, which brings us to your second point. The Department is obligated to define an allowable emissions limit in order to ensure that the VOC limits contained in the state Nonattainment regulations, 17-2.17, are not exceeded. Since VOC emissions are determined by gasoline throughput, the throughput itself must be limited.

You must remember that the RACT regulations of 17-2.16 F.A.C. are mandatory for existing facilities in order to decrease the ambient air concentrations of VOC to an attainment level, over a period of years. Any increase from the controlled RACT emission level would be subject to the Nonattainment Regulations (while the area is still considered Nonattainment for that particular pollutant).

If you wish to increase the allowable throughput in the permit, you must first come up with a good, safe figure that you do not anticpate exceeding. Then you should apply for an amendment to the permit with the new throughput. The Bureau must again review the request to determine compliance with VOC Nonattainment regulations.

Please, let us know if we can be of further assistance in this matter.

Sincerely,

Steve Smallwood, P.E.
Chief
Bureau of Air Quality
Management

SS:caa

Mobil Oil Corporation

DEC 1 1980

P.O. BOX 839
VALLEY FORGE, PENNSYLVANIA 19482

Office of the Secretary

November 24, 1980

Mr. Jacob D. Varn, Secretary
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

PERMIT NO. AC 16-30937
MOBIL OIL CORPORATION
JACKSONVILLE TERMINAL

Dear Mr. Varn:

The recently issued construction permit for the installation of vapor recovery equipment at the Mobil Jacksonville Terminal contains a specific condition which we believe is improperly included and request its deletion. Condition 3. places an annual gasoline throughput ceiling of 49.5 million gallons on our terminal, unless special approval is granted by the Department. This projected throughput was based on the terminal's actual throughput for 1979 of 49.1 million gallons.

We believe this condition should be deleted for two reasons. First, we cannot guarantee that we can hold throughput to the ceiling you specified. Second, we do not believe that such a limitation is authorized by relevant Florida regulations.

Bulk gasoline terminals rule 17-2.16 (6) (j) states that, "sources... shall not allow mass emission of VOCs from control equipment to exceed 4.7 grains per gallon (80 milligrams per liter) of gasoline loaded." We are fully prepared to meet this requirement as our permit application showed. This rule includes no provision for a throughput restriction. It properly recognizes that controls should be placed on the mass emissions rather than on terminal throughput.

Mobil

Several factors would prevent us from being able to guarantee a limit on yearly gasoline throughput. The motoring public is unpredictable, and it is, therefore, difficult for us to determine on a daily basis what gasoline consumption will be. It would, of course, be even harder to determine what our annual throughput would be. Further, we could gain additional customers if a competitor had to terminate his operation. Lastly, the Department of Energy could require us to assume additional customers. We therefore are unable to guarantee our annual throughputs will remain what it was in 1979.

Mobil intends to comply with Florida regulations. We will assure that the requirement of no more than 4.7 grains per gallon is met regardless of throughput. We do not, however, feel that Condition 3. is authorized by these regulations nor is it needed. We therefore request its deletion.

Sincerely,

R. B. Maynard
Manager of Environmental Conservation

/ks

cc: L. A. Bradley
C. M. English - Jacksonville
C. G. Schueler

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices And/Or To Other Than The Addressee

To: _____ Loctn.: file

To: _____ Loctn.: _____

To: _____ Loctn.: _____

From: _____ Date: _____

TO: Mr. R.M. Maddalena - Design Eng., Mobil Oil Company
Mr. J.A. Culbreth, P.E.

FROM: Mark Hodges, Bureau of Air Quality Management

DATE: September 10, 1980

SUBJ: Extension of Expiration Date on Air Construction Permit AC 16-30937

The expiration date on AC 16-30937 has been extended 90 days, see attached. If we may be of further assistance feel free to contact this office (904) 488-1344.

MH:dav

Attachment (1)

H6 - Rev 7/76

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee	
To:	Loctn.:
To:	Loctn.:
To:	Loctn.:
From:	Date:

RECEIVED
AUG 6 1980
Office of the Secretary

TO: Jake D. Varn

FROM: Steve Smallwood Bill Thomas for

DATE: August 7, 1980

SUBJ: Amendment of Mobil Oil Construction Permit, change in expiration date of permit.

Attached please find the page of Specific Conditions of Mobil Oil's Construction Permit which needs your signature. This will serve as an amendment to their recently approved permit, moving back the expiration date of the permit 90 days. This will allow the company sufficient time to apply for an operating permit.

PERMIT NO.: AC 16-30937
APPLICANT: Mobil Oil Corporation
Valley Forge, Pa. 19460

Specific Conditions

1. During the construction phrase, quarterly reports on construction progress, commencing three months after initiation of construction shall be submitted to the Bureau of Air Quality Management.

2. The maximum allowable VOC emissions from the vapor recovery unit are 16.62 tons per year.

3. The annual throughput of gasoline of the terminal should not significantly exceed 49.5 million gallons per year unless notification is given to the Department for approval.

4. Emission testing for VOC will be in arrordance with 17-2.16(7)(d) and prior to issuance of an operating permit.

5. Applicant shall provide the Department with 30 days notice prior to compliance testing. Following approval of test results and prior to 90 days before the expiration of this permit, a complete application for an Operating Permit shall be submitted to the DER St. Johns River Subdistrict office or its' designee. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration or receipt of an Operation Permit.

Jacob D. Varn

Jacob D. Varn

Expiration Date: September 30, 1981

Issued this 8TH day of AUGUST, 19 80.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

August 7, 1980

J.C. Fledderjohn
Acting Regional Operations Manager
P.O. Box 839
Valley Forge, Pa. 19460

Dear Mr. Fledderjohn:

It has been pointed out to the Department, by Mr. Maynard of your company, that the expiration date given in the construction permit (AC 16-30937) for the proposed vapor recovery unit at the Mobil Jacksonville Terminal, is inadequate, when compared to the scheduling of Specific Condition # 5 of the permit.

After taking a second look at the permit, we are in agreement with Mr. Maynard, and have changed the permit expiration date to allow your company the additional 90 days to obtain an Operation Permit. Therefore, as you will find in the Permit amendment enclosed, the expiration date has been changed to September 30, 1981.

It should be noted that the purpose of this amendment is to allow operation of the loading rack after compliance testing under the construction permit, until you have received an operating permit. The loading rack must still be in compliance with the VOC RACT regulation for Bulk Gasoline Terminals, as given in 17-2.16, as of July 1, 1981. Any problems in obtaining compliance by this date should be reflected in the quarterly progress reports, mentioned in the Specific Conditions of the Permit.

The 16.62 tons/yr emission limit from the recovery unit, which Mr. Maynard considered inappropiate, is simply a limit based upon both the maximum throughput estimate which you have given in the application, and the 4.7 grains/gallon emission rate stipulated in 17-2.16 (6) (j). The Department is obligated to define and enforce this limit, since it reflects what is actually released into the atmosphere. However, if you anticipate an increase of throughput for this terminal, your company should notify us and request an amendment to the permit. The emission limit would be changed in accordance with the new throughput, provided emission growth is available.

Also enclosed is a copy of the newly adopted sections of 17-2.16 pertaining to Bulk Gasoline terminals, including compliance testing for vapor recovery units.

Sincerely,

Tim Powell

Tim Powell

FILE
C 4

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

The Florida Times Union
P.O. Box 1949
Jacksonville, Fl 32201

6/18/80

RECEIVED JUN 1980 BUREAU A.O.M.

Dear Sir:

Re: Legal Advertisement (4)
Classified Advertisement ( )

We are forwarding to you a Legal advertisement to be published on the following date (s):

June 25, 1980
one time only

Subject Construction Permit

To ensure prompt payment, please send an invoice and one proof of publication, when applicable, to the address below:

Department of Environmental Regulation
PURCHASING OFFICE
2600 Blair Stone Road
Tallahassee, Florida 32301

If you have question, please contact us at 904/488-0870.

Sincerely,

Wm H Wallace

Oscar A. Martinez, Director
Purchasing Office

Enclosure: (1)

The Florida Department of Environmental Regulation (DER) has an application from and intends to issue a Construction Permit to Mobil Oil Corporation of Valley Forge, Pa. for a vapor recovery system at their Tallyrand Road Terminal in Jacksonville. No determination of Best Available Control Technology was required. Copies of the application, technical analysis and the proposed permit are available for inspection at the following local program and DER offices.

DER, Bureau of Air Qual. Mgt.
2600 Blair Stone Rd., Tallahassee

DER, St. Johns River Subdistrict
3426 Bills Rd., Jacksonville

Jacksonville Bio-Environmental Services
515 W. 6th St., Jacksonville

Construction Permit Notice

The Florida Department of Environmental Regulation (DER) has an application from and intends to issue a Construction Permit to Mobil Oil Corporation of Valley Forge, ~~Pennsylvania~~ Pa. for a vapor recovery system at their Tallyrand Road Terminal in Jacksonville. No determination of Best Available Control Technology was required. Copies of the application, technical analysis and the proposed permit are available for inspection at the following local program and DER offices.

DER, Bureau of Air Quality ~~Management~~ Mgt
2600 Blair Stone Road, Tallahassee, ~~Florida 32301~~

DER, St. Johns River Subdistrict
3426 Bills Road, Jacksonville, ~~Florida 32207~~

Jacksonville Bio-Environmental Services
515 W. 6th Street, Jacksonville, ~~Florida 32206~~

June 25,

Tim Powell
Jax Papers
CC 0442

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

MEMORANDUM CERTIFIED MAIL

TO: Mobil Oil Corporation, Valley Forge, Pennsylvania
G. Doug Dutton, Manager, St. Johns River Subdistrict, FDER
Jacksonville Bio-Environmental Services

FROM: Steve Smallwood, Chief
Bureau of Air Quality Management

DATE: June 17, 1980

SUBJ: Proposed Department Action on Mobil Oil Corporation's Application to Construct Vapor Recovery System at their Tallyrand Road Terminal in Jacksonville, Duval County, Florida.

Attached is one copy of the proposed Construction Permit and Technical Evaluation for Mobil Oil Corporation of Valley Forge, Pennsylvania.

Pursuant to 17-2.091 and 40 CFR 51.18 this information is to be maintained on file for public review for 30 days.

Comments are to be submitted to the Bureau of Air Quality Management.

SS:caa

Attachments

to appear 6/25/80

Construction Permit Notice

The Florida Department of Environmental Regulation (DER) has an application from and intends to issue a Construction Permit to Mobil Oil Corporation of Valley Forge, Pennsylvania for a vapor recovery system at their Tallyrand Road Terminal in Jacksonville. No determination of Best Available Control Technology was required. Copies of the application, technical analysis and the proposed permit are available for inspection at the following local program and DER offices.

DER, Bureau of Air Quality Management
2600 Blair Stone Road, Tallahassee, Florida 32301

DER, St. Johns River Subdistrict
3426 Bills Road, Jacksonville, Florida 32207

Jacksonville Bio-Environmental Services
515 W. 6th Street, Jacksonville, Florida 32206

Technical Evaluation

and

Preliminary Determination

Mobil Oil Corporation

1974 Tallyrand Road

Jacksonville, Florida

Construction Permit

Application Number:

AC 16-30937

Florida Department of Environmental Regulation

Bureau of Air Quality Management

Central Air Permitting

June 17, 1980

I. PROPOSED DEPARTMENT ACTION:

The Department intends to issue the requested permit to Mobil Oil Corporation for the installation of a gasoline vapor recovery system for the truck loading rack at its terminal located at Tallyrand Road, Jacksonville, Duval County, Florida, subject to public comment received as a result of this notice.

Any person wishing to file comments on this proposed action may do so by submitting such comments in writing to:

John Svec
Florida Department of Environmental Regulation
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Any comments received within thirty days after publication of this notice will be considered and noted in the Department's final determination.

Any person whose substantial interest would be affected by the issuance or denial of this permit may request an administrative hearing by filing a petition for hearing as set forth in Section 28-5.15, F.A.C. (copy attached). Such petition must be filed within 14 days of the date of this notice with:

Mary Clark
Florida Department of Environmental Regulation
Office of General Counsel
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

II. SUMMARY OF EMISSIONS AND AIR QUALITY ANALYSIS:

a. The proposed project is to be located at Mobil Oil Corporation's Tallyrand Road terminal in Jacksonville, Florida, which is within the Duval County ozone nonattainment area.

b. The significant source of hydrocarbon emissions is a gasoline vapor recovery system to be added to the existing truck loading rack.

III. SYNOPSIS OF APPLICATION:

a. Name and Address of Applicant:

Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19460

b. Description of Project and Controls:

The applicant will be installing a vapor recovery unit to control hydrocarbon emissions from the existing truck loading rack at their Tallyrand Road terminal. The new unit will result in considerably reduced emissions from truck loading.

IV. RULE APPLICABILITY:

The Tallyrand Road terminal is located in the Duval County nonattainment area for ozone, and is therefore subject to 17-2.16(6)j FAC, which requires RACT for existing sources in ozone nonattainment areas. The control technology required in this rule is installation of an adequate vapor control system which limits VOC (volatile organic compounds) to 4.7 grains per gallon of gasoline loaded.

V. FINDINGS:

1. Based on data supplied by the applicant and EPA emission factors published in AP-42, the maximum allowable emissions from the vapor recovery unit are to be 16.62 tons per year of VOC.

2. This is a significant reduction from the potential hydrocarbon emissions (calculated from existing loading rack factors) of 146.46 tons per year.

3. Construction should commence and be completed within a reasonable time, based on the projections included in the application.

4. Construction should reasonably conform to the plans submitted.

5. The applicant should submit periodic reports on construction progress.

VI. PROPOSED ALLOWABLE EMISSIONS AND PERMIT CONDITIONS:

See Draft Permit Attachment: Rule 28-5

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

(1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.

(2) All petitions filed under these rules should contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name and address of the petitioner or petitioners;

(c) All disputed issues of material fact. If there are none, the petition must so indicate;

(d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;

(e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;

(f) A demand for the relief to which the petitioner deems himself entitled; and

(g) Such other information which the petitioner contends is material.

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

31/ac/0181/05

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICANT: Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19460

PERMIT/CERTIFICATION
NO. AC 16-30937

COUNTY: Duval

PROJECT: Vapor Recovery Unit

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the installation of, a vapor recovery unit for the truck loading rack at Mobil's gasoline terminal located at 1974 Tallyrand Road, Jacksonville, Florida. The UTM and latitude, longitude coordinates are UTM 439.650E, 335.7450N, and 38°20'54"N by 81°37'39"W respectively.

Construction shall be in accordance with the attached permit application, attached plans, documents and drawings except as otherwise noted on page 3, "Specific Conditions".

Attachments are as follows:

1. "Application to Construct Air Pollution Sources" DER form 17-1.122(16).

2. Additional information supplied from Mobil in response to letter of incompleteness, June 3, 1980.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed

PERMIT NO.: AC 16-30937
APPLICANT: Mobil Oil Corporation
Valley Forge, Pa. 19460

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

13. This permit also constitutes:

[ ] Determination of Best Available Control Technology (BACT)
[ ] Determination of Prevention of Significant Deterioration (PSD)
[ ] Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

PERMIT NO.: AC 16-30937
APPLICANT: Mobil Oil Corporation
Valley Forge, Pa. 19460

Specific Conditions

1. During the construction phase, quarterly reports on construction progress, commencing three months after initiation of construction, shall be submitted to the Bureau of Air Quality Management.

2. The maximum allowable VOC emissions from the vapor recovery unit are 16.62 tons per year.

3. The annual throughput of gasoline of the terminal should not significantly exceed 49.5 million gallons per year unless notification is given to the Department for approval.

4. Emission testing for VOC will be in accordance with 17-2.16(7)(d) and prior to issuance of an operating permit.

5. Applicant shall provide the Department with 30 days notice prior to initial fill. Upon demonstration of compliance and submission of a complete application for an operationpermit, prior to 90 days of expiration of this permit, the permittee may continue to operate in compliance with all terms of this permit until the expiration of this permit or issuance of an operating permit.

Jacob D. Varn,
Secretary

Expiration Date: June 30, 1981

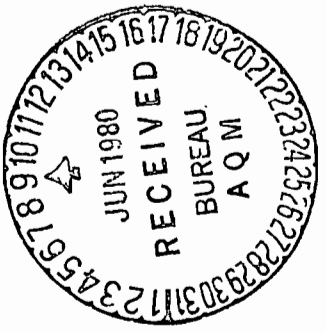
Issued this _____ day of _____, 19 _____.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Mobil Oil Corporation

P.O. BOX 839
VALLEY FORGE, PENNSYLVANIA 19482

June 3, 1980



Mr. Steve Smallwood, Chief
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Mr. Smallwood: RE: Jacksonville Terminal
Permit Application

In response to your letter of May 27, 1980, attached is a "Calculation of Potential Emissions" per AP-42 which has been revised to reflect the true vapor pressure of the product @ 75°F.

Also, the projected annual thruput of the terminal is 49.5 million gallons per year. If you have any further questions, please contact the undersigned at 215-293-4267.

Sincerely,

R M Maddalena

R.M. Maddalena

cc: R.B. Maynard
J.A. Culbreth
/dg
Attachment

CALCULATION AND DATA SH

CO-225 M (1-59)

UNIT

FOR DER PERMIT APPLICATION

LOCATION MOBIL JACKSONVILLE TERMINAL

SUBJECT CALCULATION OF POTENTIAL EMISSION OF LOADING RACK

FILE NO.

JOB OR AUTH. NO.

PAGE 1 OF 1

DATE REV 6-3-80

BY R.M. MADDALENA

SOURCE REFERENCE: AP-42, SUPPLEMENT 8
COMPILATION OF AIR POLLUTANT EMISSION FACTORS
THIRD EDITION, USEPA, MAY 1978

PG. 4.4-5 EMISSIONS DUE LOADING HYDROCARBON LIQUID:

$$L_L = 12.46 \frac{SPM}{T} \text{ WHERE}$$

L_L = LOADING LOSS, LB/10^3 GAL. OF LIQUID LOADED,
M = MOLECULAR WT OF VAPORS = 62 LB/LB MOLE (FROM TABLE 4.3-1)
P = TRUE VAPOR PRESSURE = 9.00 PSIA @ 75°F (FROM FIG. 4.3-8)
T = BULK TEMPERATURE OF GASOLINE LOADED = 535°R @ TEMP = 75°F
S = SATURATION FACTOR = 0.60 (FROM TABLE 4.4-1)

$$L_L = 12.46 \frac{(0.60)(9.00)(62)}{535} = 7.80 \text{ LB/1000 GAL LOADED}$$

$$7.80 \frac{\text{LB}}{\text{MGAL}} \times 7 \times 10^3 \frac{\text{GRAINS}}{\text{LB}} = 54.6 \text{ GRAINS/GAL.}$$

Letter of incompleteness

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

May 27, 1980

R. M. Maddalena
Mobil Oil Corporation
P. O. Box 839
Valley Forge, Pennsylvania 19460

Dear Mr. Maddalena:

Your application for construction of a vapor recovery system for the gasoline loading rack at your terminal in Jacksonville has been received and reviewed for completeness.

The information given in the application appears to be adequate for compliance with the RACT rules of 17-2.16(j), limiting VOC emissions of existing sources in ozone non-attainment areas in Florida. However, the application is determined incomplete since there is no throughput given for the new loading rack. This is needed to calculate the actual annual emissions due to the new rack, even though there will be a decrease in overall VOC pollutants.

It is therefore necessary that you submit to us the projected throughput of the new loading rack if there will be an increase in the currently permitted throughput rate, or if not, a record of the gasoline processed through the existing loading rack for the past five years.

In addition, the data used in the calculations of loading loss appear to be inconsistent in that the temperature specified for the AP-42 equation if given to be 75°F, whereas the vapor pressure given from Table 4.3-1 is for a temperature of 60°F. The actual average storage temperature should be given to establish the correct potential emissions.

The application will continue to be processed when we receive this additional information.

Sincerely,

Steve Smallwood, Chief
Bureau of Air Quality Management

cc: Johnny Cole
Marion DeGrove
J. A. Culbreth

Mobil Oil Corporation

P.O. BOX 839
VALLEY FORGE, PENNSYLVANIA 19482

May 6, 1980

Wayne E. Tutt
Associate Engineer
Department of Health, Welfare
& Bio-Environmental Services
515 West 6th Street
Jacksonville, Florida 32206

Dear Mr. Tutt:

Reference your letter of January 17, 1980, enclosed please find four completed copies of the DER Application to Operate/Construct Air Pollution Sources for Mobil Oil Corporation's Jacksonville Bulk Gasoline Terminal. Additionally included is an application fee check for twenty dollars and a compliance schedule.

This information is being furnished preliminary to bringing our terminal facility into compliance with 17-2.16(6)(j), FAC. We shall await your approval.

Very truly yours,

R. B. Maynard
Manager of Environmental Conservation

RBM/slm

cc: F. Baker
C. M. English - Jacksonville
R. M. Maddalena
D. N. Moxley - Pt. Everglades

COMPLIANCE SCHEDULE

MOBIL JACKSONVILLE TERMINAL

Date	
May 1980	Submittal of construction permit application(s) for modification(s) required to comply with 17-2.16, F.A.C.
February 1, 198	Award contract for required modification(s)
March 1, 1981	Initiation of construction of required modification(s)
June 1, 1981	Completion of construction of required modification(s)
July 19, 1981	Submittal of certification of completion of construction or application to operate; including, if applicable, results of tests conducted in a manner acceptable to the Department to demonstrate compliance with 17-2.16, F.A.C.

Briefly describe nature of modifications (e.g. retrofit 3 tanks and 1 loading rack) Installation of gasoline loading rack vapor control system to meet Bulk Gasoline Terminal Rule 17-2.16(6)(j).

Additional comments:

Our compliance with this rule is affected by and subject to several factors beyond our control. These factors include, but are not limited to, the availability of materials and competent contractors to do the necessary work, and the timely receipt of all necessary permits, licenses and other authorizations from governmental agencies having jurisdiction.

In addition, we note that Mobil may elect to discontinue handling gasoline at this facility; in that event, the facility would be in compliance without the installation of the vapor control system. Should this election be made, you will be notified promptly.

We ask that you approve this schedule subject to Mobil's rights to seek relief based upon the occurrence of any of the above situations or any other applicable contingency.

H. E. Dransfield Date 5/7/80
General Manager
Eastern Region

Acting Regional General Manager

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000030937 COE# DER PROCESSOR:SVEC DER OFFICE:TLH
FILE NAME:MOBIL OIL CORP DATE FIRST REC: 05/12/80 APPLICATION TYPE:AC
APPL NAME:MADDALENA, R.M. APPL PHONE:(215)293-4222 PROJECT COUNTY:16
ADDR:P.O. BOX 839 CITY:VALLEY FORGE ST:PNZIP:19460
AGNT NAME:CULBRETH, J.A. AGNT PHONE:(704)523-0837
ADDR:P.O. BOX 240673 CITY:CHARLOTTE ST:NCZIP:28224

ADDITIONAL INFO REQ: / / / / / / REC: / / / / / /
APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N
THIS RECORD HAS BEEN SUCESSFULLY ADDED
FEE PD DATE#1:05/12/80 $0020 RECEIPT#00033536 REFUND DATE: / / REFUND $
FEE PD DATE#2: / / $ RECEIPT# REFUND DATE: / / REFUND $
APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:05/12/80
REMARKS:GASOLINE TRUCK LOADING RACK. TO BE LOCATED AT 1974 TALLEYRAND ROAD, JACKSONVILLE, FLORIDA. LAT./LON. = 30DEG. 20MIN. 54SEC. N. / 81DEG. 37MIN. 39SEC. W. UTM = 439.650 E. / 3357.450 N.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 33536

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from [redacted] MOBIL OIL CORP. Date 12 MAY 1980

Address DALLAS, TEX. Dollars $ [redacted]

Applicant Name & Address FOR GASOLINE TRUCK LOAD RACK, 1974 TALLYRAND, RD

Source of Revenue

Revenue Code 0101 Application Number AC 16-30937

By [redacted]

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED
MAY 12 1980
AIR & WATER POLLUTION CONTROL - CITY OF JACKSONVILLE

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

AC 16-30937

SOURCE TYPE: Bulk Gasoline Terminal [ ] New[1] [X] Existing[1] Receipt # 33536

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Mobil Oil Corporation COUNTY: Duval

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Gasoline Truck Loading Rack

SOURCE LOCATION: Street 1974 Tallyrand Road City Jacksonville

UTM: East 43 9650 Meters North 3357450 Meters

Latitude 30 o 20 ' 54 "N Longitude 81 o 37 ' 39 "W

APPLICANT NAME AND TITLE: R. M. Maddalena - Design Engineer

APPLICANT ADDRESS: P. O. Box 839 Valley Forge, Pa. 19460

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Mobil Oil Corporation

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization J. C. Fledderjohn

Signed: [signature]

Acting Regional Operations Manager
Name and Title (Please Type)

Date: 5/6/80 Telephone No. 215-293-4222

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

(Affix Seal)

Signed: [signature]

J. A. Culbreth
Name (Please Type)

J. A. Culbreth , P.E.
Company Name (Please Type)

P. O. Box 240673 Charlotte, N.C. 28224
Mailing Address (Please Type)

Florida Registration No. 11341 Date: 4-17-80 Telephone No. 704-523-0837

[1] See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

A vapor recovery system will be installed to collect and process Hydrocarbon vapors displaced from gasoline tank trucks during loading operations. After the hydrocarbon vapors are processed the system will result in full compliance with state regulation of less than 4.7 grains emitted per gallon loaded

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 3/1/80 * Completion of Construction 6/1/81*

* Subject to availability of necessary equipment and reliable contractors

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Estimated cost of vapor recovery system: A. Vapor Recovery Unit - $154,896 B. Equipment Purchased by Mobil (Excluding VRU) - $73,768, C. Installation of Vapor Recovery System - $126,200, D. Misc. Costs - $18,066

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? ___ Yes _x_ No

F. Normal equipment operating time: hrs/day 24 ; days/wk 6 ; wks/yr 52 ; if power plant, hrs/yr N/A ;

if seasonal, describe: _____

G. If this is a new source or major modification, answer the following questions. (Yes or No) N/A

1. Is this source in a non-attainment area for a particular pollutant? _____
   a. If yes, has "offset" been applied? _____
   b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
   c. If yes, list non-attainment pollutants.

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. _____
3. Does the State "Prevention of Significant Deterioriation" (PSD) requirements apply to this source? If yes, see Sections VI and VII. _____
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? _____
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? _____

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable: N/A

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) N/A

1. Total Process Input Rate (lbs/hr): _____

2. Product Weight (lbs/hr): _____

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission[1]		Allowed Emission[2] Rate per Ch. 17-2, F.A.C.	Allowable[3] Emission lbs/hr	Potential Emission[4]		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Hydrocarbon Vapors	Grains/Gal No Greater than 4.7	N/A	4.7 Grains/Gallon of gasoline loaded	N/a	Grains/Gal 41.9*	N/A	Attached

D. Control Devices: (See Section V, Item 4)

* See Attached Calculation

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles[5] Size Collected (in microns)	Basis for Efficiency (Sec. V, It[5])
JohnZink Company Model AA-261-8-6	Hydrocarbon ~~Vapors~~	N/A	N/A	N/A

[1]See Section V, Item 2.

[2]Reference applicable emission standards and units (e.g., Section 17-2.05(8) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

[3]Calculated from operating rate and applicable standard

[4]Emission, if source operated without control (See Section V, Item 3)

[5]If Applicable

E. Fuels N/A

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating. Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal. N/A

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: Approximately 18 ft. Stack Diameter: 0.833 ft.

Gas Flow Rate: Varies: 0 to 522 ACFM Gas Exit Temperature: Ambient °F.

Water Vapor Content: Approx: 0 % Velocity: Varies: 0 to 900 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ days/week _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (^oF)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner [ ] Other (specify) _____

Brief description of operating characteristics of control devices: _____

_____

_____

_____

_____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

_____

_____

_____

_____

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight – show derivation.

2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.,) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.

3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).

4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).

5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).

6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.

7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).

8. An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. An application fee of $20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?
[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy) [ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:
5. Useful Life:
6. Operating Costs:
7. Energy:
8. Maintenance Cost:
9. Emissions:

Contaminant	Rate or Concentration

*Explain method of determining D 3 above.

10. Stack Parameters

a. Height: ft. b. Diameter: ft.

c. Flow Rate: ACFM d. Temperature: °F

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. Control Device:

b. Operating Principles:

c. Efficiency*: d. Capital Cost:

e. Useful Life: f. Operating Cost:

g. Energy*: h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

a. Control Device:

b. Operating Principles:

c. Efficiency*: d. Capital Cost:

e. Useful Life: f. Operating Cost:

g. Energy**: h. Maintenance Costs:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

*Explain method of determining efficiency.

**Energy to be reported in units of electrical power – KWH design rate.

3.

a. Control Device:

b. Operating Principles:

c. Efficiency*: d. Capital Cost:

e. Life: f. Operating Cost:

g. Energy: h. Maintenance Cost:

*Explain method of determining efficiency above.

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

a. Control Device

b. Operating Principles:

c. Efficiency*:

d. Capital Cost:

e. Life:

f. Operating Cost:

g. Energy:

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency*:

3. Capital Cost:

4. Life:

5. Operating Cost:

6. Energy:

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a.

(1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

*Explain method of determining efficiency above.

(7) Emissions*:

Contaminant	Rate or Concentration

(8) Process Rate*:

b.

(1) Company:

(2) Mailing Address:

(3) City:

(4) State:

*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions*:

Contaminant	Rate or Concentration

(8) Process Rate*:

10. Reason for selection and description of systems:

*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

DESIGN BASIS

Jacksonville, FL

Model No. AA-261-8-6

The John Zink Adsorption/Absorption Gasoline Vapor Recovery System(s) is (are) based on proprietary technology, sound engineering practices, terminal loading characteristics, and other data summarized as follows:

GASOLINE LOADING PATTERNS

Maximum Instantaneous Rate	3,900 GPM*
15 Min. Maximum throughput	--- - GAL
1 Hour Maximum throughput	34,200 GAL
2 Hour Maximum throughput	68,400 GAL
3 Hour Maximum throughput	85,400 GAL
4 Hour Maximum throughput	102,500 GAL
Daily Maximum throughput	341,800 GAL

*5100 gpm potential.

GASOLINE PROPERTIES

Reid Vapor Pressure, psi

Summer	9
Winter	13.5

Temperature, Degrees Fahrenheit

Summer	90 max.

DESIGN HYDROCARBON CONCENTRATION

Vapors from loading rack, mol %	40**

VAPOR GROWTH FACTOR	1.1
VOLTAGE AVAILABLE, volts/phase/cycle	460/3/60

** Assumes vapor balance (Stage 1).

SECTION IV

PERFORMANCE

Model No. AA-261-8-6

The John Zink Carbon Adsorption/Absorption Gasoline Vapor Recovery System will remove the gasoline vapors from the incoming air/hydrocarbon vapor mixture in order to comply with legislated air quality regulations. Hydrocarbons adsorbed in the activated carbon are recovered and returned to the owner's storage tanks.

SUMMARY

GUARANTEED EMISSIONS LEVEL

Lb Hydrocarbon/1000 gallons Gasoline Loaded	0.5

ESTIMATED RECOVERY

Gals. Hydrocarbon/1000 Gallons Loaded	2 @ 40% inlet

CYCLE TIME

Minutes	15

REGENERATION VACUUM LEVEL

MM Hg Absolute	74

GASOLINE CIRCULATION

Gallons/Minute	94

PRESSURE DROP

Inches W.C. at 800 CFM (6000 gpm)	8.3
Inches W.C. at 668 CFM (5000 gpm)	6.3
Inches W.C. at 535 CFM (4000 gpm)	4.3
Inches W.C. at 401 CFM (3000 gpm)	2.9

CALCULATION AND DATA SHEET

CO-228 M (1-80)

UNIT _____ FILE NO. _____

FOR DER PERMIT APPLICATION JOB OR AUTH. NO. _____

LOCATION MOBIL JACKSONVILLE TERMINAL PAGE 1 OF 1

SUBJECT CALCULATION OF POTENTIAL EMISSION OF LOADING RACK DATE _____

BY RMMADDALENA

SOURCE REFERENCE: AP-42, SUPPLEMENT B
COMPILATION OF AIR POLLUTANT EMISSION FACTORS
THIRD EDITION, USEPA, MAY 1978

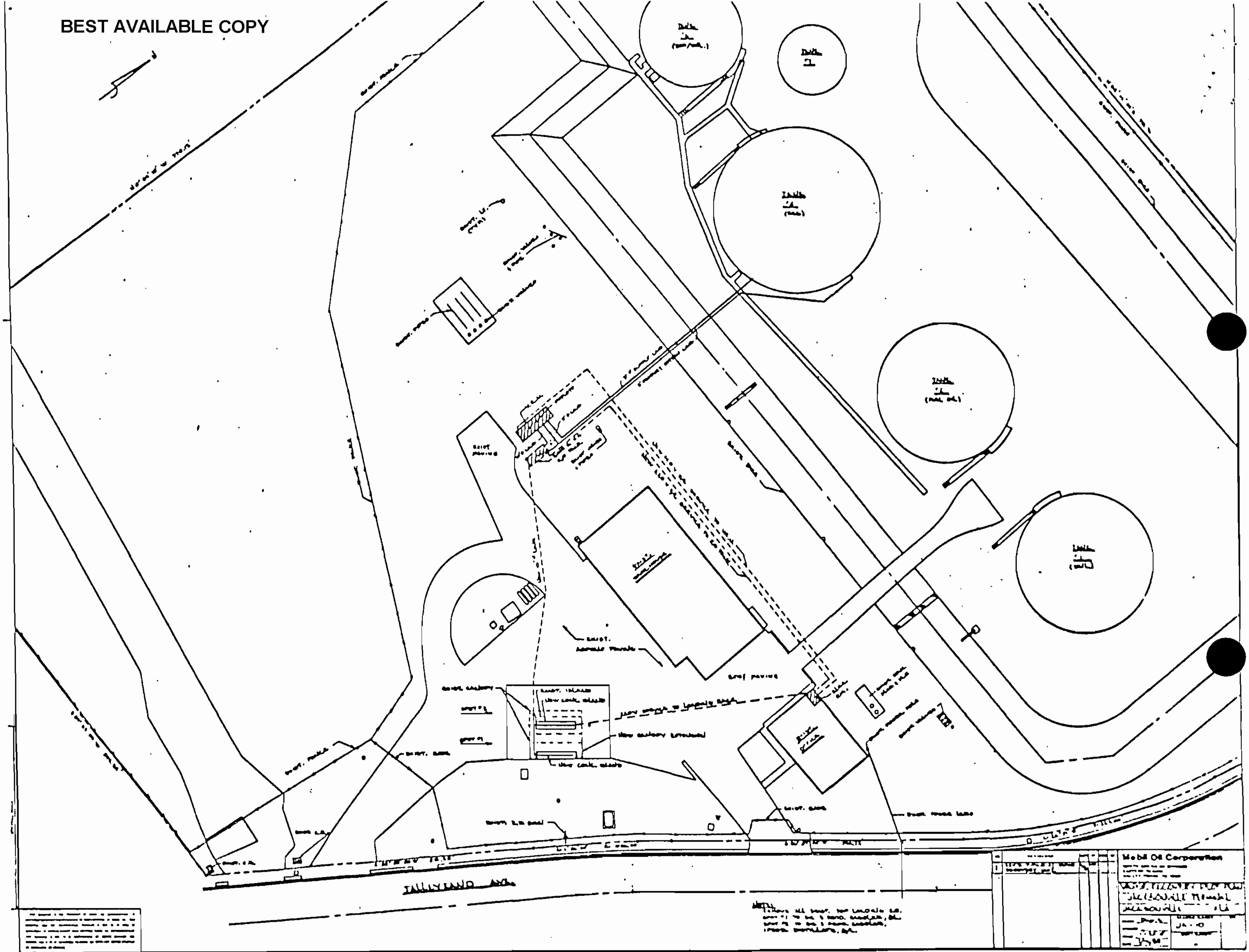
PG 4.4-5 EMISSIONS DUE TO LOADING HYDROCARBON LIQUIDS:

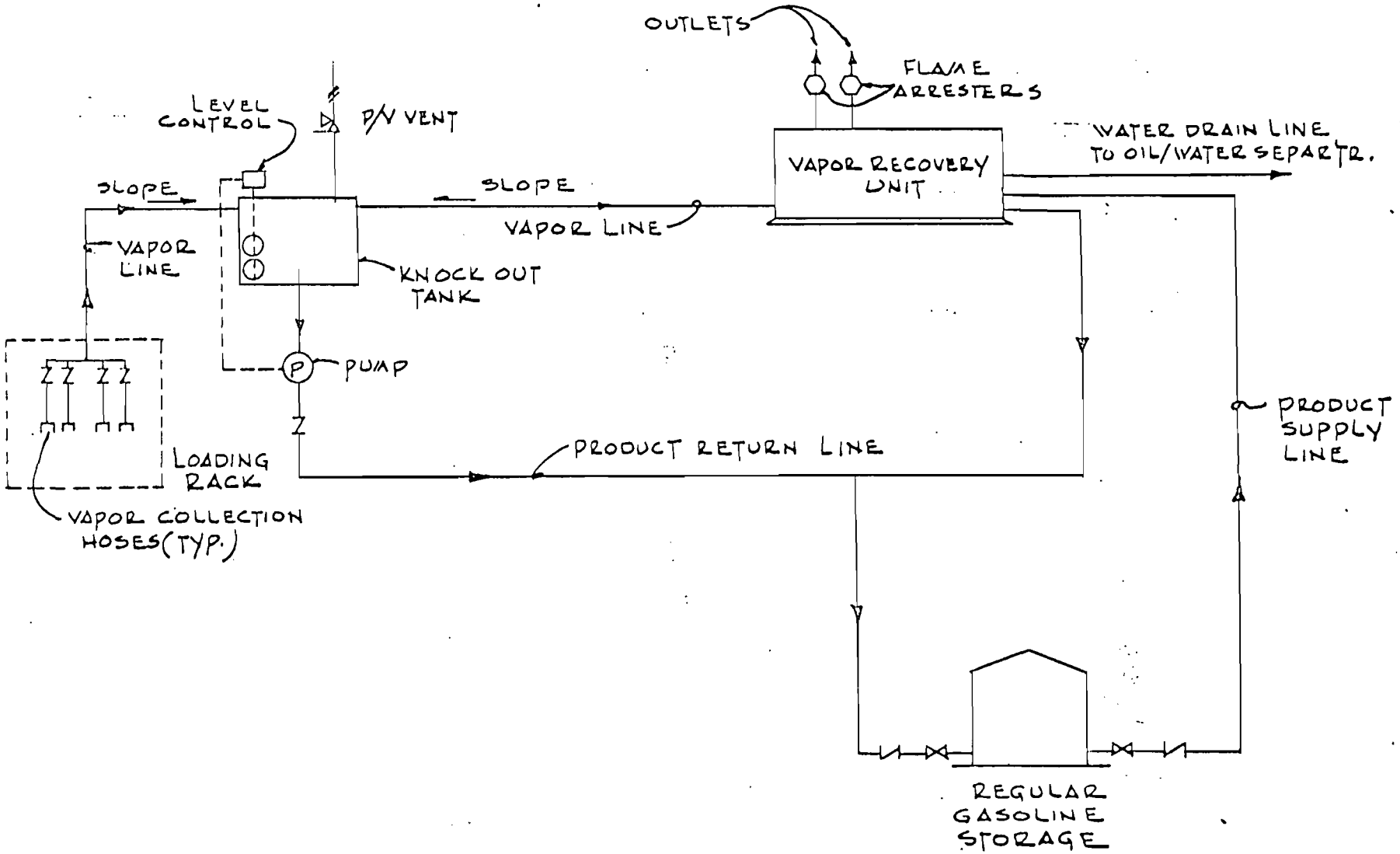
$$L_L = 12.46 \frac{SPM}{T} \quad \text{WHERE:}$$

L_L = LOADING LOSS, LB/10^3 GAL OF LIQUID LOADED
M = MOLECULAR WT. OF VAPORS = 62 LB/LB MOLE (FROM TABLE 4.3-1)
P = TRUE VAPOR PRESSURE = 6.9 PSIA (FROM TABLE 4.3-1)
T = BULK TEMPERATURE OF GASOLINE LOADED = 535 °R @ TEMP = 75 °F
S = SATURATION FACTOR = 0.60 (FROM TABLE 4.4-1)

$$L_L = \frac{12.46 (.6)(6.9)(62)}{535} = 5.98 \text{ LB / 1000 GAL. LOADED}$$

$$\frac{5.98 \text{ LB}}{1000 \text{ GAL}} \times \frac{7 \times 10^3 \text{ GRAINS}}{\text{LB}} = 41.9 \text{ GRAINS/GAL}$$





NO.	REVISIONS	DATE	BY	CHKD	APP

Mobil Oil Corporation
NORTH AMERICAN DIVISION
EASTERN REGION
VALLEY FORGE, PA 19482

VAPOR RECOVERY
FLOW DIAGRAM
JACKSONVILLE TERM.

DRAWN FR B	DRAWING NUMBER JA-10	REV.
CHECKED		
SCALE NONE	SHEET NUMBER 1 OF 1	
DATE MAR. '80		