

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	1
APPL. NO.	DATE
See Below	8/28/09
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APPLICANT: ExxonMobil Oil Corporation  
12851 E. 166<sup>th</sup> Street  
Cerritos, Ca 90703

EQUIPMENT LOCATION: 2619 E. 37<sup>th</sup> St.  
Vernon, Ca. 90058

EQUIPMENT DESCRIPTION:

APPLICATION NO. 499975

**TANK TRUCK LOADING BAY NO. 1 CONSISTING OF:**

1. SIX GASOLINE PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
2. TWO DIESEL FUEL BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
3. TWO 4" VAPOR RETURN LINES.
4. FOUR UNLEADED GASOLINE PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
5. FIVE UNLEADED GASOLINE PUMPS, 100 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
6. TWO DIESEL FUEL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1,2, 3, AND 4.
7. TWO ETHANOL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	2
APPL. NO.	DATE
See Below	8/28/09
PROCESSED BY	CHECKED BY
A.KING	

APPLICATION NO. 499986

TANK TRUCK LOADING BAY NO. 2 CONSISTING OF:

1. SIX GASOLINE PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
2. TWO DIESEL FUEL BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
3. TWO 4" VAPOR RETURN LINES.
4. FOUR UNLEADED GASOLINE PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
5. FIVE UNLEADED GASOLINE PUMPS, 100 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
6. TWO DIESEL FUEL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, AND 4.
7. TWO ETHANOL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

APPLICATION NO. 499987

TANK TRUCK LOADING BAY NO. 3 CONSISTING OF:

1. SIX GASOLINE PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
2. TWO DIESEL FUEL BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
3. TWO 4" VAPOR RETURN LINES.
4. FOUR UNLEADED GASOLINE PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
5. FIVE UNLEADED GASOLINE PUMPS, 100 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	3
APPL. NO.	DATE
See Below	8/28/09
PROCESSED BY	CHECKED BY
A.KING	

6. TWO DIESEL FUEL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1,2, 3, AND 4.
7. TWO ETHANOL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

APPLICATION NO. 499988

TANK TRUCK LOADING BAY NO. 4 CONSISTING OF:

1. SIX GASOLINE PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
2. TWO DIESEL FUEL BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
3. TWO 4" VAPOR RETURN LINES.
4. FOUR UNLEADED GASOLINE PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
5. FIVE UNLEADED GASOLINE PUMPS, 100 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
6. TWO DIESEL FUEL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1,2, 3, AND 4.
7. TWO ETHANOL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

APPLICATION NO. 499989

TANK TRUCK LOADING BAY NO. 5 CONSISTING OF:

1. FOUR GASOLINE PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	4
APPL. NO.	DATE
See Below	8/28/09
PROCESSED BY	CHECKED BY
A.KING	

2. TWO ETHANOL PRODUCT BOTTOM LOADING ARMS, EACH WITH A 4" EMCO WHEATON DRY BREAK COUPLER.
3. FOUR UNLEADED GASOLINE PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
4. FIVE UNLEADED GASOLINE PUMPS, 75 HP. EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.
5. TWO 4" VAPOR RETURN LINES.
6. TWO ETHANOL PUMPS, 75 HP EACH, WITH MECHANICAL SEALS, COMMON TO LOADING BAYS 1, 2, 3, 4, AND 5.

**HISTORY:**

Application Nos. 499975 and 499986-989 were submitted on 6/23/09. Application No. 499989 represents changing tank truck Loading Bay No. 5 (P/O F84032, A/N 389287) from ethanol usage to regular and super gasoline usage. Application Nos. 499975 and 499986-988 represent Loading Bays No. 1-4. They are permitted under P/O F82305 (A/N 389283), F82306 (A/N 389284), and F82307 (A/N 389285), and F82308 (A/N 389286), respectively. Modification of the existing piping layout is required at the Bay No. 5. All the pumps that service the gasoline dispensing operation in Loading Bays No. 1-4 will also be connected to Loading Bay No. 5.

Loading Bay No. 5 is currently equipped with six loading arms for ethanol loading. The modification will convert four of the arms to dispense regular and super gasoline. The gasoline pumps for Loading Bays 1-4 will now service Loading Bay No. 5. No emissions increase is expected from the modifications since the total facility throughput limit for gasoline remains the same. The applications will be considered as Class I modifications and will be issued P/C-P/O. This project is considered a Minor Title V Revision.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	5
APPL. NO.	DATE
See Below	8/28/09
PROCESSED BY	CHECKED BY
A.KING	

**CALCULATIONS**

The loading bays will continue to operate under the existing permit conditions. Therefore, it is anticipated that the proposed modifications will not cause an increase in emissions. There is currently a gasoline throughput limit of 3,726,000 gals per day (worst case) for the loading bays (total combined limit for all five bays). In addition, each loading bay will retain its current allowable emission limitation of 0.08 pounds per 1000 gallons of product loaded. Therefore, the pre-modification and post modification potential to emit (PTE) pursuant to Rule 1306(d) is:

$$\begin{aligned} \text{Pre-Modification PTE} &= \frac{3,726,000 \text{ gals}}{\text{day}} \times \frac{0.08 \text{ lbs}}{1000 \text{ gal}} \\ &= 298.08 \text{ lbs/day} = \text{Post-modification PTE} \end{aligned}$$

Thus, on a PTE basis, there is no increase as a result of this modification.

**RULE 212**

There will not be an increase in emissions. Therefore, a public notice is not required.

**RULE 401**

The proposed changes will not cause an increase in throughput. Therefore it is expected that the equipment will not cause an increase in visible emissions.

**RULE 402**

No nuisance complaints are expected from this operation.

**RULE 462**

The equipment should be able to operate in compliance with the standards of this rule.

**RULE 1173**

All fugitive components will operate in compliance with the requirements of this rule.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

*ENGINEERING DIVISION*

**APPLICATION PROCESSING AND CALCULATIONS**

PAGES	PAGE
6	6
APPL. NO.	DATE
See Below	8/28/09
PROCESSED BY	CHECKED BY
A.KING	

**REG. XIII**

There will not be an increase in emissions pursuant to Rule 1306(d). Therefore BACT/LAER and offsets are not required.

**RULE 1401**

This rule does not apply since there will be no increase in emissions.

**Reg. XXX**

Title V facility with initial Title V permit issued on 1/26/09. This revision is a minor revision that will go to EPA for a 45-Day review. This revision does not require a public notice.

**CEQA**

This is not considered to be a significant project.

**40 CFR63 SUBPART R**

The facility is a minor source of HAPS. Therefore, this facility is subject to the minor source requirements of this subpart.

**40 CFR63 SUBPART BBBB**

The owner/operator will comply with the applicable testing and monitoring requirements, submit applicable notifications, keep appropriate records and submit reports, and perform monthly leak inspections.

**40 CFR60 SUBPART XX**

This facility is a bulk gasoline terminal. The facility will meet the standards for VOC emissions and along with the required test methods and procedures, and reporting and recordkeeping.

**RECOMMENDATION**

Application Nos. 499975 and 499986-989 : Issue permits to construct/operate  
See sample permits for conditions