

A/N 422329



South Coast Air Quality Management District
 P. O. Box 4944
 Diamond Bar, CA 91765
 (909) 396-2000

APPLICATION FOR PERMIT TO CONSTRUCT AND PERMIT TO OPERATE FORM 400 - A

on-Title V Facilities: This form must be accompanied by one or more 400-E-xx series form(s). Complete this side of form only.
 Title V Facilities: Complete both sides of this form. Include additional forms as necessary.

NC/NOV NUMBER:	
INSPECTOR	SECTOR
ISSUE DATE	

Section I - Company Information

LEGAL NAME OF OPERATOR ExxonMobil Oil Corporation	<input type="checkbox"/> IRS OR <input type="checkbox"/> S. S. NUMBER
PERMIT TO BE ISSUED TO (SEE INSTRUCTIONS) ExxonMobil Oil Corporation	
BUSINESS MAILING ADDRESS 3700 West 190th Street, Torrance, CA 90509-2929	
PERMIT MAILING ADDRESS, IF DIFFERENT FROM BUSINESS MAILING ADDRESS	
TYPE OF ORGANIZATION <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Individual	<input type="checkbox"/> Limited Partnership <input type="checkbox"/> General Partnership
<input type="checkbox"/> Government Entity <input type="checkbox"/> Other (Fill in):	
ARE YOU A SMALL BUSINESS? (SEE INSTRUCTIONS) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	AVERAGE ANNUAL GROSS RECEIPTS \$ _____ NUMBER OF EMPLOYEES 900
IS YOUR BUSINESS 51% OR MORE WOMAN/MINORITY OWNED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
THIS SECTION IS REQUIRED FOR ALL APPLICATIONS FOR NEW CONSTRUCTION OR MAJOR MODIFICATIONS.	
ARE ALL MAJOR SOURCES UNDER SAME OWNERSHIP IN CALIFORNIA IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL AIR POLLUTION CONTROL RULES? <input type="checkbox"/> Yes <input type="checkbox"/> No	
ARE YOU THE OWNER OF THE EQUIPMENT UNDER THIS APPLICATION? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
IF NO, ENTER THE LEGAL NAME OF OWNER _____ <input type="checkbox"/> IRS OR <input type="checkbox"/> S. S. NUMBER OF OWNER	

Section II - Facility Information

EQUIPMENT ADDRESS/LOCATION 3700 West 190th Street	FACILITY NAME ExxonMobil Oil Torrance Refinery
Torrance CITY OR COMMUNITY	FACILITY ID NUMBER ID 8043
CA, 90509-2929 ZIP CODE	12-1-03 <i>Handwritten note</i>
PRINT NAME OF CONTACT PERSON Meena Nainan	TITLE OF CONTACT PERSON Environmental Advisor
TYPE OF BUSINESS AT THIS FACILITY Petroleum Refining	PRIMARY SIC CODE FOR THIS FACILITY 2911
CONTACT PERSON'S TELEPHONE NUMBER (310) 212-4673	NUMBER OF EMPLOYEES AT THIS FACILITY 900
CONTACT PERSON'S FAX NUMBER (310) 212-4681	CONTACT PERSON'S E-MAIL ADDRESS meena.m.nainan@exxonmobil.com

Section III - Application Type

DESCRIPTION OF EQUIPMENT: Modification to LPG/LSR Rail Car Loading/Unloading Rack (Process 13, System 1)	PREVIOUS PERMIT #(S): A/N 384499 * Active
APPLICATION FOR (SEE INSTRUCTIONS): <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> EXISTING EQUIPMENT WITHOUT PERMIT <input type="checkbox"/> EXISTING EQUIPMENT WITH EXPIRED PERMIT	ARE YOU SUBMITTING MULTIPLE APPLICATIONS FOR EQUIPMENT IDENTICAL TO THAT DESCRIBED ABOVE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> APPLICATION FOR NON-TITLE V EQUIPMENT PERMIT. CHECK THE SUPPLEMENTAL SERIES 400-E-xx FORM(S) SUBMITTED WITH THIS 400-A FORM:	<i>* 384499 (H) previous 288577 Fitzhugh NT</i>
<input type="checkbox"/> 400-E-1 PARTICULATE MATTER (PM10) CONTROL EQUIPMENT <input type="checkbox"/> 400-E-2 VOLATILE ORGANIC COMPOUND (VOC) CONTROL EQUIPMENT <input type="checkbox"/> 400-E-3 SCRUBBER <input type="checkbox"/> 400-E-4 ABRASIVE BLASTING EQUIPMENT <input type="checkbox"/> 400-E-6 DEGREASER <input type="checkbox"/> 400-E-7 DRY CLEANING EQUIPMENT <input type="checkbox"/> 400-E-8 ETHYLENE OXIDE STERILIZER <input type="checkbox"/> 400-E-9 EXTERNAL COMBUSTION EQUIPMENT <input type="checkbox"/> 400-E-10 FOOD BROILER/FRYER <input type="checkbox"/> 400-E-11 FUEL DISPENSING AND STORAGE EQUIPMENT <input type="checkbox"/> 400-E-12 GAS TURBINE	<input type="checkbox"/> 400-E-13 INTERNAL COMBUSTION EQUIPMENT <input type="checkbox"/> 400-E-14 OPEN PROCESS TANK <input type="checkbox"/> 400-E-14a OPEN PROCESS TANK; PROCESS LINE <input type="checkbox"/> 400-E-15 PRINTING EQUIPMENT <input type="checkbox"/> 400-E-16 SOLID MATERIALS STORAGE EQUIPMENT <input type="checkbox"/> 400-E-17 SPRAY BOOTH/OPEN SPRAY <input type="checkbox"/> 400-E-17a POWDER SPRAY BOOTH <input type="checkbox"/> 400-E-18 STORAGE TANK (LIQUID & GASEOUS MAT'L) <input type="checkbox"/> 400-E-19 WAVE SOLDER MACHINE <input type="checkbox"/> 400-E-20 ASBESTOS REMOVAL EQUIPMENT <input checked="" type="checkbox"/> NONE * ADDITIONAL INFORMATION SUBMITTED AS REQUESTED ON FORM 400-E-GI
<input type="checkbox"/> APPLICATION FOR TITLE V FACILITY PERMIT. PROVIDE INFORMATION REQUESTED ON REVERSE SIDE OF THIS FORM.	

I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT.	
SIGNATURE OF RESPONSIBLE OFFICIAL OF FIRM: <i>[Signature]</i>	TITLE OF RESPONSIBLE OFFICIAL OF FIRM: ExxonMobil Refinery Manager
TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL OF FIRM: Gary Wilson	RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER (310) 212-4500
	DATE SIGNED: 11/24/03
I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT.	
SIGNATURE OF PREPARER IF PREPARED BY PERSON OTHER THAN RESPONSIBLE OFFICIAL OF FIRM: <i>[Signature]</i>	TITLE OF PREPARER: SENIOR ENGINEER
TYPE OR PRINT NAME OF PREPARER, IF PREPARED BY PERSON OTHER THAN RESPONSIBLE OFFICIAL OF FIRM: Eric Moller, ENSR	PREPARER'S TELEPHONE NUMBER (310) 212-3803
	DATE SIGNED: 11/17/03

TITLE V FACILITIES ONLY: COMPLETE OTHER SIDE

AQMD USE ONLY	APPLICATION/TRACKING # 422329	PROJECT #	TYPE (B) C D	EQUIPMENT CATEGORY CODE: 297113 (ready) unbrady	FEE SCHEDULE: C VALIDATION 11/26/03
ENG. (A) R	ENG. A R	CLASS I II IV	ASSIGNMENT C	ENF. LSK	CHECK/MONEY ORDER AMOUNT 2500249168
DATE NT 5/20/04	DATE	UNIT	ENGINEER	SECT.	3345/49

CK TR# 31989, 31990

2500249158 530/66

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	ENGINEER JM04	CHECK BY <i>MEV</i>

EVALUATION REPORT FOR PERMIT TO OPERATE

APPLICANT'S NAME: EXXONMOBIL OIL CORPORATION

MAILING ADDRESS: 3700 W. 190TH STREET
TORRANCE, CA 90504

EQUIPMENT LOCATION: 3700 W. 190TH STREET
TORRANCE, CA 90504

EQUIPMENT DESCRIPTION:

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Process 13: Loading/Unloading Process
System 1: LPG/LSR Rail Car Loading/Unloading Rack

Equipment	ID No.	Conditions
Loading and Unloading Arm, <u>Light Straight Run</u> , Liquefied Petroleum Gas, 16 Total; Diameter: 2 in A/N 384499	D675	E193.6, E336.7, K67.4

The above listed equipment and all other equipment listed in Process 13, System 1, in Section H will be deleted and transferred to Section D as noted below.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Conditions
Loading and Unloading Arm, Light Straight Run, Liquefied Petroleum Gas, 16 Total; Diameter: 2 in A/N 384499 (superseded by A/422329)	D675	E193.6, E336.7, K67.4
Loading and Unloading Arm, Light Straight Run, Liquefied Petroleum Gas, 8 Total; Diameter: 2 in A/N 384499 (superseded by A/422329)	D1994	C1.53, E336.6, K67.4

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APPLICATION PROCESSING AND CALCULATIONS

*Fugitive Emissions, Miscellaneous D1855 H23.34
A/N 284499

Knockout Pot, 51C-110, LSR Rack PSV ~~D???~~ ~~**130.1, ****???~~
Diameter: 2 ft, Height: 3 ft
A/N 422329 *D2444* *now*

Note: All of the bold faced and underscored items are the modifications to this application.

*Emissions and Requirements: HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]

Permit Condition: **In accordance with Regulation XXX, the permit for this equipment is being issued as a non-Title V permit.

***New Permit Condition: **All liquid condensate in the knockout pot shall be removed when the condensate level is half full as per direct observation of the liquid level gauge.**

HISTORY:

This application was submitted as a modification application with penalty on November 26, 2003. This application was filed to add a knockout pot to the existing Rail Car Load/Unload Process #13, System 1 that was omitted in the previous application. The purpose of this knockout pot is to collect vapors from the loading rack and any condensates. The collected vapors are then sent to the vapor recovery system and any liquid condensate is retained in the knockout pot. Once the level of the liquid condensate reaches about half full, a vacuum truck will hook up to the knockout pot to remove the liquid condensate. The addition of this knockout pot will not result in any net emission increase of emissions, and therefore, no formal evaluation was needed. A copy of the initial engineer's evaluation is included as reference.

This application was also used to finalize the permit to operate for this equipment. Thus, all of the equipment listed in Section H can now be transferred to Section D. The facility's proposed normal operating schedule is as follows: 24 hours/day, 7 days/week, 30 days/month and 52 weeks/year. This is a major oil refinery facility. There is no school located within 1,000 feet from this facility. The facility has received numerous notices to comply and notices of violations. However, this application was not submitted as a result of a notice.

PROCESS DESCRIPTION:

CARB Phase III compliance requires management of lighter blend stocks, such as pentane or light straight run (LSR) and butane (LPG). LPG is currently shipped to offsite storage during the summertime and brought back to the refinery during the wintertime for gasoline blending (when the vapor pressure specification for gasoline is higher). In the same manner, LSR will be shipped out in summer and brought back in winter for blending. The rundown temperature of LSR is 110F.

The west rack will now include a new 6" vapor recovery line to accommodate LSR loading. Four of the existing LPG loading arms in the west rack will be converted for LSR service and four new loading arms will be added to the east rack for LPG service to offset the loss of four arms in the west rack. Each LPG loading arm will be equipped with a vapor return line for emission control. These arms will be

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added to the north end of the east rack, and utility service to this rack will be modified accordingly. Additional rail spurs was also added to accommodate increased rail traffic.

EMISSION CALCULATIONS:

The addition of a knockout pot will not result in a net increase of emissions. Therefore, the emissions calculated in the engineer's evaluation under A/N 384499 should remain the same. A copy of this evaluation is included for reference.

CANCER RISK ASSESSMENT:

The addition of a knockout pot will also not result in a net increase of toxic emissions. Therefore, the emissions calculated in the engineer's evaluation under A/N 384499 should remain the same. A copy of this evaluation is included for reference.

RULES EVALUATION:

Rule 212: There is no school located within 1,000-feet from this facility. The maximum individual cancer risk is less than one-in-one million. Public notice is not required.

Rule 401: All emissions from the Rail Car Loading/Unloading Rack are vented to a vapor recovery system. Therefore, no visible emissions are expected.

Rule 402: The fugitive emissions generated from the process units and the loading racks are mainly ethanol, butane and/or pentane, which do not cause odor nuisance. No violation expected.

Rule 462: Loading of LPG is exempt from the rule. Loading of LSR is subject to the rule, but since the loading arm is equipped with a vapor return line, which is connected to the vapor recovery system and is ultimately routed to the fuel gas system; it is in compliance with the rule. Any ROG emissions generated from the combustion equipment are reported as combustion emissions instead of from the loading rack. LSR loading, therefore, does not have any VOC emissions. Ethanol unloading is also not subject to the rule.

The loading arms are equipped with a vapor return line, which are connected to the vapor recovery system and is ultimately routed to the fuel gas system. Any vapors that cannot be handled by the VRS are vented to the flare, which is exempted from Rule 462(I)2).

Rule 1173: The fugitive components of the process units, the organic storage, and loading/unloading facilities are subject to the rule. With proper implementation of the applicant's extensive inspection program, no violations are expected.

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REG XIII: The modification of this equipment to include a knockout pot will not result in a net emission increase. No additional offsets are required and no modeling was required for ROG's.

Rule 1313: The loading arms are connected to a vapor return line, which are connected to the vapor recovery system and is ultimately routed to the fuel gas system. BACT is satisfied since any vapors from the loading arms will be routed to the vapor recovery system. Furthermore, the operator will have a maximum monthly throughput limit condition.

Rule 1401: The modification will not result in a net toxic emission increase and therefore is exempt from further rule evaluation per section (g)(1)(B). Compliance is expected.

CONCLUSIONS & RECOMMENDATIONS:

This application is expected to comply with all applicable District Rules and Regulations. A Permit to Operate is recommended subject to the conditions as outlined above.