

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS

EXXONMOBIL OIL CORPORATION )  
New Source Review Project )  
)  
) PCB 2011-  
) (Tax Certification)  
PROPERTY IDENTIFICATION NUMBER )  
04-10-22-100-006-0010 )

NOTICE

TO: [Electronic filing] [Service by mail]  
John T. Therriault Craig E. Mann  
Illinois Pollution Control Board ExxonMobil Oil Corporation  
State of Illinois Center P.O. Box 53  
100 W. Randolph Street, Suite 11-500 Houston, Texas 77001-0053  
Chicago, Illinois 60601

[Service by mail]  
Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

PLEASE TAKE NOTICE that I have today filed with the Office of the Pollution Control Board the APPEARANCE and RECOMMENDATION of the Illinois Environmental Protection Agency, a copy of which is herewith served upon the applicant and a representative of the Illinois Department of Revenue.

Respectfully submitted by,

/s/ Robb H. Layman  
Robb H. Layman  
Assistant Counsel, Illinois EPA

Date: August 25, 2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276  
Telephone: 217/782-5544  
Facsimile: 217/782-9807

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS**

EXXONMOBIL OIL CORPORATION )  
New Source Review Project )  
)  
) PCB 2011-  
) (Tax Certification)  
PROPERTY IDENTIFICATION NUMBER )  
04-10-22-100-006-0010 )

**APPEARANCE**

I hereby file my Appearance in this proceeding on behalf of the Illinois Environmental Protection Agency.

Respectfully submitted by,

/s/ Robb H. Layman

Robb H. Layman  
Assistant Counsel, Illinois EPA

Date: August 25, 2011

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1021 North Grand Avenue East  
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**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS**

EXXONMOBIL OIL CORPORATION )  
New Source Review Project )  
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) PCB 2011-  
) (Tax Certification)  
PROPERTY IDENTIFICATION NUMBER )  
04-10-22-100-006-0010 )

**RECOMMENDATION**

NOW COMES the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (“Illinois EPA”), through its attorneys, and pursuant to 35 Ill. Adm. Code 125.204 of the ILLINOIS POLLUTION CONTROL BOARD’S (“Board”) procedural regulations, files the Illinois EPA’s Recommendation in the above-referenced request for tax certification of pollution control facilities. The Illinois EPA recommends **issuance** of a tax certification covering the subject matter of the request. In support thereof, the Illinois EPA states as follows:

1. On July 11, 2007, the Illinois EPA received a request and supporting information from EXXONMOBIL CORPORATION (“ExxonMobil”) concerning the proposed tax certification of certain air emission sources and/or equipment located at its Joliet, Illinois refinery in Will County, Illinois. A copy of the application is attached hereto. **[Exhibit A]**.

2. The applicant’s address is as follows:

ExxonMobil Oil Corporation  
P.O. Box 53  
Houston, Texas 77001-0053

3. The pollution control facilities involved in this request are located at the aforementioned address and consisted of the installation of conventional control equipment to numerous process activities at the refinery. A Tail Gas Cleanup Unit (“TGCU”) was installed to the South Sulfur Recovery Unit that will remove hydrogen sulfide (“H<sub>2</sub>S”) and sulfur

dioxide (“SO<sub>2</sub>”) emissions from the tail gas generated by the East and West Trains of the South Sulfur Recovery Unit. The TGPU is a two-phase process of controls consisting, among other things, of a heater, reactors, waste heat boiler, condensing tower and amine tower and regeneration. A Wet Gas Scrubber was installed on the Fluid Catalytic Cracking Unit (“FCCU”) to reduce SO<sub>2</sub> and particulate matter emissions, while selective catalytic reduction reactor(s), together with associated ductwork and in-line components (i.e., future ammonia injection grid), for the FGGU were installed for controlling nitrous oxide emissions. A Purge Treatment Unit was constructed to handle the liquid purge from the aforementioned scrubber prior to its conveyance to the Wastewater Treatment Plant (“WWTP”) and an associated caustic delivery/storage and dilution/distribution system was designed and installed to handle the caustic used in the same scrubber. An Integrated Biological System was added to the WWTP to enable the refinery to manage the scrubber’s purge stream without affecting the WWTP’s continuous operation. Lastly, new equipment for providing chemical treatment to the feed water from the existing North and South Benzene Recovery Units (“BRU”) was installed to control and reduce H<sub>2</sub>S from the overhead gas streams prior to being combusted in the incinerators.

4. A construction permit for the aforementioned activities was obtained on October 3, 2006. **[Exhibit B]**. The implementation of this comprehensive New Source Review (“NSR”) project derives from the requirements of a consent decree that was entered with the United States Environmental Protection Agency and the Illinois EPA on or about December 13, 2005 [relevant portions of the order are referenced in **Exhibit C**].

5. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2002), defines “pollution control facilities” as:

“any system, method, construction, device or appliance appurtenant thereto, or any portion of any building or equipment, that is designed, constructed, installed

or operated for the primary purpose of: (a) eliminating, preventing, or reducing air or water pollution... or (b) treating, pretreating, modifying or disposing of any potential solid, liquid, gaseous pollutant which if released without treatment, pretreatment, modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.”

6. Pollution control facilities are entitled to preferential tax treatment, as provided by 35 ILCS 200/11-5 (2002).

7. Based on information in the application and the underlying purpose of the NSR Project to prevent, eliminate or reduce air pollution, it is the Illinois EPA’s engineering judgment that the various systems, constructions, devices and/or buildings or equipment from the project relating to air pollution control may be considered as “pollution control facilities” in accordance with the statutory definition and consistent with the Board’s regulations at 35 Ill. Adm. Code 125.200. **[Exhibit D]**.

8. Because the substantive components of the application for the NSR Project satisfies the aforementioned criteria, the Illinois EPA recommends that the Board **issue** the applicant’s requested tax certification.

Respectfully submitted by,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Robb H. Layman

Robb H. Layman  
Assistant Counsel, Illinois EPA

DATED: August 25, 2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
Telephone: 217/782-5544  
Facsimile: 217/782-9807

**CERTIFICATE OF SERVICE**

I hereby certify that on the 25<sup>th</sup> day of August, 2011, I electronically filed the following instruments entitled **NOTICE, APPEARANCE** and **RECOMMENDATION** with:

John Therriault, Assistant Clerk  
Illinois Pollution Control Board  
100 West Randolph Street  
Suite 11-500  
Chicago, Illinois 60601

and, further, that I did send a true and correct paper copy of the same foregoing instruments, by First Class Mail with postage thereon fully paid and deposited into the possession of the United States Postal Service, to:

Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

Craig E. Mann  
ExxonMobil Oil Corporation  
P.O. Box 53  
Houston, Texas 77001-0053

*/s/ Robb H. Layman*  
Robb H. Layman  
Assistant Counsel

Joliet Refinery  
ExxonMobil Oil Corporation

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NSR Project

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Application for Certification

Pollution Control Facility

Property Tax Treatment

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- Exhibit A -

**APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)  
POLLUTION CONTROL FACILITY**  
AIR  WATER

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**  
P. O. Box 19276, Springfield, IL 62794-9276

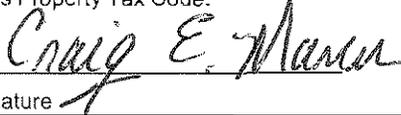
RECEIVED

This Agency is authorized to request this information under Illinois Revised Statutes, 1979, Chapter, 120, Section 502a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

FOR AGENCY USE

JUL 11 2007

File No.	Date Received	Certification No.	Date
APPLICANT	Company Name ExxonMobil Oil Corporation		
	Person Authorized to Receive Certification Craig E. Mann		Person to Contact for Additional Details Bradford S. Kohlmeier
	Street Address P. O. Box 53		Street Address I-55 & Arsenal Road East
	Municipality, State & Zip Code Houston, TX 77001-0053		Municipality, State & Zip Code Channahon, Illinois 60410
	Telephone Number (713) 656-8611		Telephone Number (815) 521-7733
	Location of Facility Quarter Section      Township      Range 22                      10                      9		Municipality      Township Channahon      10
	Street Address I-55 & Arsenal Road East		County      Book Number Will
	Property Identification Number 04-10-22-100-006-0010		Parcel Number Section 22 of Channahon Township
	MANUFACTURING OPERATIONS	Nature of Operations Conducted at the Above Location  The Joliet Refinery is a conventional fuels refinery. It receives crude oil by pipe line and processes the crude into gasoline and distillate fuels.	
Water Pollution Control Construction Permit No. 2007EN2703		Date Issued 03/19/07	
NPDES PERMIT No. IL000286		Date Issued 6-8-98 / Resubmittal 1-17-07 Renewal Application 12-2-02	Expiration Date 5-31-03
Air Pollution Control Construction Permit No. 06100002		Date Issued 12/22/06	
Air Pollution Control Operating Permit No. 95120304		Date Issued 08/15/00	
MANUFACTURING PROCESS	Sec. C Describe Unit Process  See Attachment.		
	Materials Used in Process  NA - See permit application for individual processes.		
POLLUTION CONTROL FACILITY DESCRIPTION	Sec. D Describe Pollution Abatement Control Facility  See Attachment.		

POLLUTION CONTROL FACILITY - CONTAMINANTS	Sec. F (1) Nature of Contaminants or Pollutants		
			Material Retained, Captured or Recovered
	Contaminant or Pollutant	DESCRIPTION	DISPOSAL OR USE
	SO2, NOX, and particulate matter		Converted to elemental sulfur and disposed as a non-hazardous solid waste.
	(2) Point(s) of Waste Water Discharge		
	Waste water treatment plant at the tributary to the Des Plaines River.		
	Plans and Specifications Attached		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	(3)	Are contaminants (or residues) collected by the control facility?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	(4)	Date installation completed _____ status of installation on date of application _____	
ACCOUNTING DATA	(5) a.	FAIR CASH VALUE IF CONSIDERED REAL PROPERTY:	\$ 325,000,000.00
	b.	NET SALVAGE VALUE IF CONSIDERED REAL PROPERTY:	\$
	c.	PRODUCTIVE GROSS ANNUAL INCOME OF CONTROL FACILITY:	\$ 0.00
	d.	PRODUCTIVE NET ANNUAL INCOME OF CONTROL FACILITY:	\$ 0.00
	e.	PERCENTAGE CONTROL FACILITY BEARS TO WHOLE FACILITY VALUE:	% 79.0
SIGNATURE	Sec. F The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge, is true and correct. The facilities claimed herein are "pollution control facilities" as defined in Section 11-10 of the Illinois Property Tax Code.		
	 _____ Property Tax Agent Signature Title		
INSTRUCTIONS	Sec. G INSTRUCTIONS FOR COMPILING AND FILING APPLICATION		
	General: Separate applications must be completed for each control facility claimed. Do not mix types (water and air). Where both air and water operations are related, file two applications. If attachments are needed, record them consecutively on an index sheet.		
	Sec. A	Information refers to applicant as listed in the tax records and the person to be contacted for further details or for inspection of facilities. Define facility location by street address or legal description. A plat map location is required for facilities located outside of municipal boundaries. The property identification number is required.	
	Sec. B	Self-explanatory. Submit copies of all permits issued by local pollution control agencies. (e.g. MSD Construction Permit)	
	Sec. C	Refers to manufacturing processes or materials on which pollution control facility is used.	
	Sec. D	Narrative description of the pollution control facility, indicating that its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility. State permit number, date, and agency issuing permit. A narrative description and a process flow diagram describing the pollution control facility. Include a listing of each major piece of equipment included in the claimed fair cash value for real property. Include an <u>average</u> analysis of the influent and effluent of the control facility stating the collection efficiency.	
	Sec. E	List air contaminants, or water pollution substances released as effluents to the manufacturing processes. List also the final disposal of any contaminants removed from the manufacturing processes. Item (1) - Refers to pollutants and contaminants removed from the process by the pollution control facility. Item (2) - Refers to water pollution but can apply to water-carried wastes from air pollution control facilities. Submit drawings, which clearly show (a) Point(s) of discharge to receiving stream, and (b) Sewers and process piping to and from the control facility. Item (3) - If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value in dollars reclaimed by sale or reuse of the collected substances. State the cost of reclamation and related expense. Item (4) - State the date which the pollution control facility was first placed in service and operated. If not, explain. Item (5) - This information is essential to the certification and assessment actions. This accounting data must be completed to activate project review prior to certification by this Agency.	
	Sec. F	Self-explanatory. Signature must be a corporate authorized signature.	
Submit to:		Attention:	Attention:
Illinois EPA P.O. Box 19276 Springfield, IL 62794-9276		Al Keller Permit Section Division of Water Pollution Control	Donald E. Sutton Permit Section Division of Air Pollution Control

ExxonMobil Oil Corporation: Joliet Refinery  
Application for Certification (Property Tax Treatment)  
Pollution Control Facility (Air)

**Attachments**

**Section C**

**Describe Unit Process**

The New Source Review Controls Project addresses certain control measures for the South Sulfur Recovery Unit (SSRU), Fluid Catalytic Cracking Unit (FCCU), and Benzene Recovery Units (BRU) required by a Consent Decree between Exxon Mobil Corporation and ExxonMobil Oil Corporation, USEPA and Illinois EPA (Civil Action Number 05-C-5809 entered December 13, 2005 in the Northern District of Illinois) which requires the applicant to implement.

**Materials Used in Process**

NA - Please see permit application for individual processes.

**Section D**

This project includes a South Sulfur Recovery Unit (SSRU) Tail Gas Cleanup Unit (TGCU), which consists of air pollution control equipment to treat the tail gas from both the East and West Trains of the SSRU. The new equipment is designed to remove hydrogen sulfide (H<sub>2</sub>S) from the tail gas prior to combustion in the existing afterburners, so as to reduce emissions of Hydrogen Sulfide and Sulfur Dioxides.

This project also includes a Fluid Catalytic Cracking Unit (FCCU) Wet Gas Scrubber (WGS), which consists of air pollution control equipment designed to control Sulfur Dioxide and PM from the flue gas of the FCCU.

This project will construct a new Purge Treatment Unit (PTU), which consist of equipment designed to manage the liquid purge from the WGS prior to discharge to the existing wastewater treatment plant (WWTP).

The project includes a caustic delivery/storage and dilution/distribution system, which consists of equipment designed to manage the caustic used in the WGS.

This project also includes changes to the existing Waste Water Treatment Plant, including the addition of an Integrated Biological System necessary to accomodate the WGS purge stream while continuing to maintain proper operation of the WWTP.

ExxonMobil Oil Corporation: Joliet Refinery  
Application for Certification (Property Tax Treatment)  
Pollution Control Facility (Air)

**Attachments**

**Section D (continued)**

This project includes installation of ductwork, in-line components (ie. future ammonia injection grid), and the basic selective catalytic reduction (SCR) reactor(s) for the FCCU that will be used for Nitrous Oxides control.

This project includes new equipment designed to chemically treat the feed water to the existing BRU system (both North and South BRU's). The new equipment is designed to remove hydrogen sulfide (H<sub>2</sub>S) from the BRU overhead gas prior to combustion in the existing incinerators, so as to reduce emissions of Sulfur Dioxide.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506 - (217) 782-2113

ROD R. BLAGOJEVICH, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/782-2113

CONSTRUCTION PERMIT - NESHP SOURCE - NSPS SOURCE

PERMITTEE

ExxonMobil Oil Corporation  
Attn: B. S. Kohlmeyer  
Post Office Box 874  
Joliet, Illinois 60434

Application No.: 06100002

I.D. No.: 197800AAA

Applicant's Designation:

Date Received: October 3, 2006

Subject: Emission Reduction Projects

Date Issued: December 22, 2006

Location: I-55 & Arsenal Road; Joliet

This Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of certain emission reduction projects required by a consent decree, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This permit addresses certain control measures for the South Sulfur Recovery Unit (SSRU), Fluid Catalytic Cracking Unit (FCCU), and Benzene Recovery Unit (BRU) required by a Consent Decree between Exxon Mobil Corporation and ExxonMobil Oil Corporation, USEPA and Illinois EPA (Civil Action Number 05-C-5809 entered December 13, 2005 in the Northern District of Illinois) which requires the Permittee to implement.
  - b. This permit is issued based upon these emission control projects having at most a minimal incidental increase in emissions of pollutants that are not targeted for further control pursuant to the Consent Decree.
  - c. This permit does not alter monitoring requirements, emission limitations, and standards applicable to the Joliet Refinery, as addressed in Construction Permit 06030044, including requirements for the South Sulfur Recovery Unit, Fluid Catalytic Cracking Unit, and Benzene Recovery Unit.
  - d. The Permittee shall continue to comply with the applicable emission standards and control requirements for the SSRU, FCCU, and BRU in the source's CAAPP permit.
2. Sulfur Recovery Unit Emission Reduction Projects
    - a. This permit authorizes construction of a South Sulfur Recovery Unit (SSRU) Tail Gas Cleanup Unit (TGCU), which consists of air pollution control equipment to treat the tail gas from both the East and West Trains of the SSRU. The new equipment is designed to remove hydrogen sulfide (H<sub>2</sub>S) from the tail gas prior to combustion in the existing afterburners, so as to reduce emissions of SO<sub>2</sub>.

- Exhibit B

- i. For the SSRU TGPU, the Permittee shall comply with the Good Operation and Maintenance and PMO Plans required by Paragraph 65 of the Consent Decree.
- ii. Until the SSRU complies with NSPS Subpart J requirements, as provided by Paragraph 68 of the Consent Decree, the Permittee shall comply with its proposed Interim Performance Standard in accordance with Paragraph 66 of the Consent Decree or, if necessary, shall begin implementing recommended physical or operational improvements required to achieve the proposed Interim Performance Standard in accordance with Paragraph 66(c) of the Consent Decree.

Note: This condition does not relieve the Permittee from any otherwise applicable obligation to obtain a construction permit which may be required for the above mentioned physical or operational improvements.

- iii. The SSRU is subject to NESHAP for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units, 40 CFR Part 63, Subpart UUU. The Permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart UUU.

Note: When the SSRU begins complying with the NSPS, the Permittee is required to change the method of compliance for this standard from Option 2 (meet the total reduced sulfur (TRS) emission limitation) to complying with the NSPS for Petroleum Refineries, 40 CFR Part 60, Subpart J.

- iv. The new individual drain system (IDS) associated with the TGPU is subject to the NSPS for VOC Emissions From Petroleum Refinery Wastewater Systems, 40 CFR 60 Subpart QQQ and related provisions in Subpart A, General Provisions. The Permittee shall comply with all applicable requirements of 40 CFR 60, Subparts A and QQQ.
- b. This permit authorizes changes to the North and South Sulfur Pits and corresponding ducts and vent systems to reduce H<sub>2</sub>S emissions.
    - i. Pursuant to Paragraph 69(b) of the Consent Decree, the Permittee shall route or re-route all sulfur pit emissions so that they are eliminated, controlled, or included and monitored as part of the emissions subject to the relevant NSPS Subpart J limit, 40 CFR 60.104(a)(2), by no later than December 31, 2008.
    - ii. Pursuant to Paragraph 69(e) of the Consent Decree, the Permittee shall take all reasonable measures to minimize

Page 3

emissions while periodic maintenance is being performed on sulfur pit emission control systems.

3. Fluid Catalytic Cracking Unit Emission Reduction Project

- a. This permit authorizes construction of a Fluid Catalytic Cracking Unit (FCCU) Wet Gas Scrubber (WGS), which consists of air pollution control equipment designed to control SO<sub>2</sub> and PM from the flue gas of the FCCU.
  - i. Pursuant to Paragraph 37 of the Consent Decree, the Permittee shall test emissions of the WGS.
  - ii. The FCCU with WGS is subject to certain monitoring requirements of the Consent Decree and NSPS, provided however that pursuant to 40 CFR 60.13(i), after receipt and consideration of written application, the USEPA may approve alternative monitoring procedures.
  - iii. The new individual drain system (IDS) associated with the WGS is subject to the NSPS for VOC Emissions From Petroleum Refinery Wastewater Systems, 40 CFR 60 Subpart QQQ and related provisions in Subpart A, General Provisions. The Permittee shall comply with all applicable requirements of 40 CFR 60, Subparts A and QQQ.
- b. This permit authorizes construction of a new Purge Treatment Unit (PTU), which consist of equipment designed to manage the liquid purge from the WGS prior to discharge to the existing wastewater treatment plant (WWTP).
- c. This permit authorizes construction of a caustic delivery/storage and dilution/distribution system, which consists of equipment designed to manage the caustic used in the WGS.
- d. This permit authorizes changes to the existing WWTP necessary to accommodate the WGS purge stream while continuing to maintain proper operation of the WWTP.
- e. This permit authorizes installation of ductwork, in-line components (i.e., future ammonia injection grid), and the basic selective catalytic reduction (SCR) reactor(s) for the FCCU.

Note: This permit does not authorize installation of the SCR control device and subsystems (i.e., catalyst beds; ammonia storage, transport, and vaporization). The Permittee has indicated that it will apply for a construction permit for the SCR control device and subsystems in a separate permit application.

Page 4

4. Benzene Recovery Unit Emission Reduction Project
  - a. This permit authorizes construction of a Benzene Recovery Unit Emission Reduction Project, which consists of new equipment designed to chemically treat the feed water to the existing BRU system (both North and South BRU's). The new equipment is designed to remove hydrogen sulfide (H<sub>2</sub>S) from the BRU overhead gas prior to combustion in the existing incinerators, so as to reduce emissions of SO<sub>2</sub>.
    - i. The BRU will be subject to certain monitoring requirements of the Consent Decree and NSPS provided however that pursuant to 40 CFR 60.13(i), after receipt and consideration of written application, the USEPA may approve alternative monitoring procedures.
5. This permit is issued based upon the installation of equipment to remove oil from the sewer and reroute it to a closed slop oil system (i.e., the new vacuum truck connection and offload piping) resulting in a decrease in emissions that is greater than the minimal VOM emissions from the two new drain systems associated with the TGPU and WGS.
6. The equipment addressed by this construction permit may be operated under this permit until renewal of the CAAPP permit or a modification of the CAAPP permit to address this equipment is issued provided the Permittee submits a timely application to amend the current CAAPP permit to incorporate this equipment.

If you have any questions on this permit, please contact Jason Schnepf at 217/782-2113.

*Edwin C. Bakowski*

Edwin C. Bakowski, P.E.  
Acting Manager of Permit Section  
Division of Air Pollution Control

ECB:JMS:psj

cc: Region 1



STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL  
P. O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS  
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:

- a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emissions of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
- a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
  - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
  - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
  - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6.
    - a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.
    - b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
  7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
    - a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
    - b. upon finding that any standard or special conditions have been violated, or
    - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

DIRECTORY  
ENVIRONMENTAL PROTECTION AGENCY  
BUREAU OF AIR

For assistance in preparing a permit application contact the Permit Section.

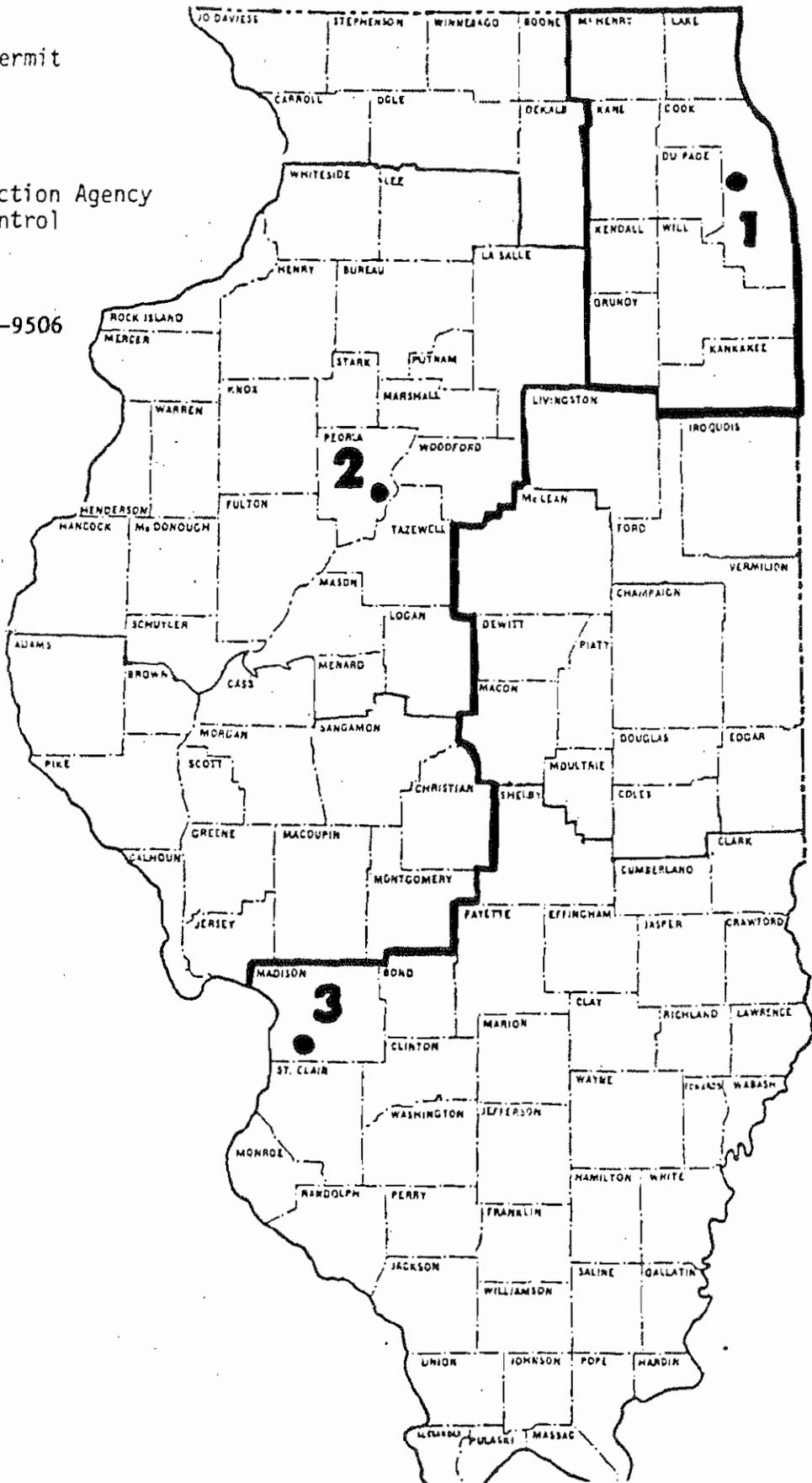
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section  
1021 N. Grand Ave E.  
P.O.Box 19506  
Springfield, Illinois 62794-9506

or a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA  
Region 1  
Bureau of air, FOS  
9511 West Harrison  
Des Plaines, Illinois 60016  
847/294-4000

Illinois EPA  
Region 2  
5415 North University  
Peoria, Illinois 61614  
309/693-5463

Illinois EPA  
Region 3  
2009 Mall Street  
Collinsville, Illinois 62234  
618/346-5120



IN THE UNITED STATES DISTRICT COURT  
FOR THE NORTHERN DISTRICT OF ILLINOIS

RECEIVED

JUL 11 2007

IEPA - DAPC - SPFLD

UNITED STATES OF AMERICA, )  
 STATE OF ILLINOIS, )  
 STATE OF LOUISIANA, and the )  
 STATE OF MONTANA )  
 )  
 Plaintiffs, )  
 )  
 v. )  
 )  
 EXXON MOBIL CORPORATION and )  
 EXXONMOBIL OIL CORPORATION )  
 )  
 Defendants. )  
 \_\_\_\_\_ )

No.

CONSENT DECREE

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 - Exhibit C

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b. Baytown FCCU 2 and Baytown FCCU 3: The Baytown Refinery has two FCCUs, designated FCCU 2 and FCCU 3. A WGS that commenced operation in 1974 serves as an SO<sub>2</sub> and PM control device for FCCU 2, and a WGS that commenced operation in 1975 serves as an SO<sub>2</sub> and PM control device for FCCU 3. A high-pressure hydrotreater also exists which lowers the sulfur in a portion of the FCCU feed.

c. Beaumont FCCU: The Beaumont Refinery has one FCCU. A WGS that commenced operation in 2004 serves as an SO<sub>2</sub> and PM control device for the FCCU. The Beaumont FCCU also has third-stage cyclones.

d. Billings FCCU: The Billings Refinery has one FCCU.

e. Joliet FCCU: The Joliet Refinery has one FCCU. The Joliet FCCU also has third-stage cyclones.

f. Torrance FCCU: The Torrance Refinery has one FCCU. A selective catalytic reduction (“SCR”) system installed in 2000 serves as a NO<sub>x</sub> control device for the FCCU. An electrostatic precipitator that commenced operation in 1972 and was upgraded in 1985 serves as a PM control device for the FCCU. A high-pressure hydrotreater also exists which lowers the sulfur in a portion of the FCCU feed.

**B. NO<sub>x</sub> EMISSIONS REDUCTIONS FROM THE FCCUs.**

12. **General.** ExxonMobil shall implement a program to reduce NO<sub>x</sub> emissions from the FCCUs at the refineries listed in Subsection V.A, as specified below. Pursuant to Subsection V.Q of this Consent Decree, ExxonMobil shall apply for federally-enforceable permits that incorporate the lower NO<sub>x</sub> emission limits established by this Subsection. ExxonMobil will monitor compliance with the emission limits through the use of CEMS, as specified by this Subsection V.B.

(ii) taking other steps to reduce NOx (which may include, but are not limited to, use of a Thermal DeNOx system and/or CO boiler low-NOx burners and/or use of NOx-reducing catalyst additive and/or low NOx combustion promoter).

b. Final NOx Limits. By no later than December 31, 2008, ExxonMobil shall comply with NOx emission limits of 40 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 80 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at the Billings FCCU.

c. Non-Routine Operations. FCCU NOx emissions during a period of natural gas curtailment will not be used in determining compliance with the short-term (7-day) Final NOx Limit established pursuant to Subparagraph 17.b if Fuel Oil is burned in a combustion unit serving the Billings FCCU CO boiler or CO furnace during the period of natural gas curtailment. During any such period of natural gas curtailment, ExxonMobil shall comply with an alternate short-term NOx emission limit of 120 ppmvd at 0% O<sub>2</sub> on 24-hour rolling average basis at the Billings FCCU.

18. **NOx Emissions Control for the Joliet FCCU.**

a. NOx Control System. ExxonMobil presently intends to control emissions from the Joliet FCCU by installing and operating a SCR system for the FCCU.

b. Final NOx Limits. By no later than December 31, 2012, ExxonMobil shall comply with NOx emission limits of 20 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 40 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at the Joliet FCCU.

19. **NOx Emissions Control for the Torrance FCCU.**

a. NOx Control System. ExxonMobil presently intends to control emissions from the Torrance FCCU by operating its existing SCR system for the FCCU.

quarter in which a RAA or RATA is not performed. The Parties agree that the CEMS may need to be moved and reinstalled because of the installation of control equipment, and that once moved it will need to be re-calibrated and re-certified.

C. **SO<sub>2</sub> EMISSIONS REDUCTIONS FROM THE FCCUs.**

22. **General.** ExxonMobil shall implement a program to reduce SO<sub>2</sub> emissions from the FCCUs at the refineries listed in Subsection V.A, as specified below. Pursuant to Subsection V.Q of this Consent Decree, ExxonMobil shall apply for federally-enforceable permits that incorporate the lower SO<sub>2</sub> emission limits established by this Subsection. ExxonMobil will monitor compliance with the emission limits through the use of CEMS, as specified by this Subsection V.C.

23. **SO<sub>2</sub> Emissions Control for Baytown FCCU 2.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from Baytown FCCU 2 by upgrading and operating its existing WGS.

b. **Final SO<sub>2</sub> Limits.** By no later than December 31, 2009, ExxonMobil shall comply with SO<sub>2</sub> emission limits of 25 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 50 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at Baytown FCCU 2.

24. **SO<sub>2</sub> Emissions Control for Baytown FCCU 3.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from Baytown FCCU 3 by operating its existing WGS.

b. **Final SO<sub>2</sub> Limits.** By no later than the Entry Date, ExxonMobil shall comply with SO<sub>2</sub> emission limits of 25 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 50 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at Baytown FCCU 3.

25. **SO<sub>2</sub> Emissions Control for the Baton Rouge FCCUs.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from the Baton Rouge FCCUs by: (i) operating its existing WGS; and (ii) taking other steps to reduce SO<sub>2</sub> (which may include, but are not limited to, use of SO<sub>2</sub> Reducing Catalyst Additive) during planned routine maintenance on the Baton Rouge WGS.

b. **Final SO<sub>2</sub> Limits.** By no later than the January 1, 2006, ExxonMobil shall comply with SO<sub>2</sub> emission limits of 35 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 70 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at the Baton Rouge FCCUs.

26. **SO<sub>2</sub> Emissions Control for the Beaumont FCCU.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from the Beaumont FCCU by operating its existing WGS.

b. **Final SO<sub>2</sub> Limits.** By no later than the Entry Date, ExxonMobil shall comply with SO<sub>2</sub> emission limits of 25 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 50 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at the Beaumont FCCU.

27. **SO<sub>2</sub> Emissions Control for the Joliet FCCU.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from the Joliet FCCU by installing and operating a WGS.

b. **Final SO<sub>2</sub> Limits.** By no later than December 31, 2008, ExxonMobil shall comply with SO<sub>2</sub> emission limits of 25 ppmvd at 0% O<sub>2</sub> on a 365-day rolling average basis and 50 ppmvd at 0% O<sub>2</sub> on a 7-day rolling average basis at the Joliet FCCU.

28. **SO<sub>2</sub> Emissions Control for the Torrance FCCU.**

a. **SO<sub>2</sub> Control System.** ExxonMobil presently intends to control SO<sub>2</sub> emissions from the Torrance FCCU by using low sulfur feed in the FCCU.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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ROD R. BLAGOJEVICH, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

**Technical Recommendation for Tax Certification Approval**

Date: December 04, 2007  
To: Robb Layman  
From: Edwin C. Bakowski   
Subject: ExxonMobil Oil Corporation TC-07-07-11

This Agency received a request on July 11, 2007 from ExxonMobil Oil Corporation for an Illinois EPA recommendation regarding tax certification of air pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. I offer the following recommendation.

The air pollution control facilities in this request include the following:

New Source Review Controls Project for South Sulfur Recovery Unit(SSRU), Fluid Catalytic Cracking Unit(FCCU), Benzene Recovery Units(BRU) whose primary purpose is to reduce SO<sub>2</sub>, NO<sub>X</sub>, and Particulate Matter emissions. Because the primary purpose of this project is to reduce or eliminate air pollution, it is certified as a pollution control facility.

This facility is located at I-55 & Arsenal Road East, Channahon, Section 22, Range 9, Channahon Township

The property identification number is 04-10-22-100-006-0010

Based on the information included in this submittal, it is my engineering judgement that the proposed facility may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing air pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. Therefore, it is my recommendation that the Board issue the requested tax Certification for this facility.

  
Exhibit D