BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

MARATHON ASHLAND PETROLEUM, LLC)	
Gasoline Desulfurization Unit)	
)	
)	PCB 07-
)	(Tax Certification)
PROPERTY IDENTIFICATION NUMBER)	
51-34-1-21 or portion thereof)	

NOTICE

TO: [*Electronic filing*] Dorothy Gunn, Clerk Illinois Pollution Control Board State of Illinois Center 100 W. Randolph Street, Suite 11-500 Chicago, Illinois 60601

[Service by mail] John S. Swearingen Marathon Ashland Petroleum Refinery Office Building Robinson, Illinois 62454

[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 electronically filed with the Office of the Pollution Control Board the **APPEARANCE** and **RECOMMENDATION** of the Illinois Environmental Protection Agency, a paper 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

Date: January 4, 2007

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276 Telephone: (217) 524-9137

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Gasoline Desulfurization Unit)	
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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

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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 POLUTION 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 a **grant** of the request. In support thereof, the Illinois EPA states as follows:

1. On December 29, 2005, the Illinois EPA received a request and supporting information from MARATHON ASHLAND PETROLEUM, LLC, ("Marathon") concerning the proposed tax certification of certain air emission sources and/or equipment located at its Robinson refinery in Crawford County, Illinois. On February 1, 2006, the Illinois EPA received an amended request for the same air emissions sources and/or equipment. A copy of the relevant portions of the amended application is attached hereto.¹ [Exhibit A].

¹ The property identification number or parcel number that is the subject of a tax certification request is typically identified in the Illinois EPA's Recommendations and Board orders as part of the case caption, presumably because of the ease with which applicants and local tax assessors alike can identify the affected property. The property identification or parcel numbers for these cases are usually derived from the application forms (i.e., APC 151) that are filled out by the applicant and submitted to the Illinois EPA. In this instance, it should be noted that the parcel number identified in the application form submitted by Marathon Ashland contains a typographical error. The numbers depicted on the application form, shown in

2. The applicant's address is as follows:

Marathon Ashland Petroleum, LLC Refinery Office Building Robinson, Illinois 62454

3. The subject matter of this request consists of a Gasoline Desulfurization Unit, which, through a two-step process utilizing a Selective Hydrogenation Unit and a Hydrodesulfurization Unit, allows the refinery to reduce the sulfur content of its gasoline in order to comply with federal gasoline content requirements. The federal requirements are meant to remove sulfur in the gasoline pool and thereby reduce sulfur dioxide emissions caused by the use of gasoline by automobiles and other gas-powered engines.

4. 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."

5. Pollution control facilities are entitled to preferential tax treatment, as

provided by 35 ILCS 200/11-5 (2002).

6. Based on information in the application and the underlying purpose of the

Gasoline Desulfurization Unit to prevent, eliminate or reduce air pollution, it is the

Illinois EPA's engineering judgment that the described project and/or equipment may be

Exhibit A attached hereto, identify the first two digits of the property's parcel number as 54. Prior tax certification requests for the refinery, as received by the Illinois EPA and eventually acted upon by the Board, have employed a parcel number whose first two digits are 51. Prior to this filing, the undersigned attorney contacted Marathon Ashland's designated representative, Mr. Dennis Baker, regarding the apparent discrepancy. Mr. Baker confirmed that the correct parcel number for this tax certification request is 51-34-1-21.

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 B].**

7. Because the Gasoline Desulfurization Unit satisfies the aforementioned criteria, the Illinois EPA recommends that the Board **grant** the applicant's requested tax certification.

Respectfully submitted by,

/s/ Robb H. Layman

Robb H. Layman Assistant Counsel

DATED: January 4, 2007

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 Telephone: (217) 524-9137

CERTIFICATE OF SERVICE

I hereby certify that on the 4th day of January, 2007, I electronically filed the

following instruments entitled NOTICE, APPEARANCE and RECOMMENDATION

with:

Dorothy Gunn, 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 John S. Swearingen Marathon Ashland Petroleum Refinery Office Building Robinson, Illinois 62454

/s/ Robb H. Layman

Robb H. Layman Assistant Counsel



Property & Severence Tax Department

Marathon Petroleum Company LLC

539 South Main Street Findlay, OH 45840-3295 Telephone 419/422-2121

January 30, 2006

Mr. Don Sutton Bureau of Air – Number 11 1021 North Grand Avenue – East Springfield, IL 62702

Re: Application for Certification Pollution Control Facility

Dear Mr. Sutton:

Prior to December 31, 2005, Marathon Petroleum Company submitted five applications for facilities at our Robinson Refinery in Crawford County, Illinois. The applications were for the following units:

Platformer Vent Gas Scrubber Gasoline Desulfurization Unit (GDU) Steam Supply to #1 and #5 Flares Crude Unit Off-Gas Handling Ultraformer 3 F-1 and 3F-2 CEMs

Shortly after the start of the new year, I contacted Mr. Floyd McKinney and advised him that Marathon would be submitting amended applications for two of the units, the Platformer Vent Gas Scrubber and the GDU.

The amended applications are attached, please forward to Mr. McKinney and begin the review process.

If there are questions or comments, please contact me at 419-421-3759.

Thank you for your help in this matter.

Sincerely,

mutBah

Dennis Baker Tax Agent

RECEIVED FEB 0 1 2006 IEPA - DAPC - SPFLD

- Exhibit A

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY AIR 2 WATER

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

FOR AGENCY USE

This Agency is authorized to request this information under Illinois Revised Statues, 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.

File No.	Date Received	Certification No.		Date
Sec. A	Company Name			
	Marathon Petroleum Company LL(-NDLJ	
	Person Authorized to Receive Certification		Person to Contact for Ad	ditional Details
	John Swearingen		Debora Krupp	
	Street Address		Street Address	
	Refinery Office Building		539 South Main	Street
F	Municipality, State & Zip Code		Municipality, State & Zip	
APPLICANT	Robinson, IL 62454		Findlay, OH 45	840
	Telephone Number		Telephone Number	
A	618-544-2121		419-421-4527	
	Location of Facility	Decas	Municipality	Township
	Quarter Section Township	Range	Robinson	Robinson
	Street Address		County	Book Number
	Route 33		Crawford	Doorranibo
	Property Identification Number		Parcel Number	
			Part of 54-34-1-	-21
Sec. B	Nature of Operations Conducted at the Above	Location		
	Petroleum Refining			
	rectoredan nerrang			
	Gasoline Desulfurization	Unit (GDU)		
<u>م</u>		0HIL (0D0)		
URI SNS	Water Pollution Control Construction Permit N	lo.	Date Issued	
ATC 1	2003-EB-3095		May 20, 2003	
UFA 2ER	NPDES PERMIT No.		Date Issued	Expiration Date
MANUFACTURING OPERATIONS	IL0004073		Sept. 30, 1986	August 1, 1991
2	Air Pollution Control Construction Permit No.		Date Issued	
	03030085		July 14, 2003/S	ept. 13, 2005(revised
	Air Pollution Control Operating Permit No.		Date Issued	
	96010007 (Title V Permit)		November 24, 20	03
Sec. C	Describe Unit Process		·	
	See Attached			
U Z				
SSUR				
UFACTURING	Materials Used in Process			
L L L L L L L L L L L L L L L L L L L				RECEIVED
MANUI	See Attached			
-				FED A T
				FEB 0 1 2006
			10	PA - DAPC - SPFLD
Sec. D	Describe Pollution Abatement Control Facility		õ <u>E</u>	TA - DAPC - SPEI
, Z				
	See Attached			
N S S				1
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POLLUTION CONTROL FACILITY DESCRIPTION				
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Sec. E	(1) Nature of Contaminants or Pollutants					
		Material Retained, Captured or Recovered				
NTS	Contan	ninant or Pollutant	DESCRIPTION	DISPOSAL OR USE		
INAI	Sulfu			The sulfur is collected		
ITAN				and routed to the amine		
ĻŚ				units for treatment.		
ILLT				·····		
POLLUTION CONTROL FACILITY - ACCOUNTING DATA CONTAMINANTS	(2) Point(s) of Waste Water Discharge Waste Water Treatment Plant					
лко	Plans and Specifications Attached Yes 🔀 No 🗆					
co	(3) A	re contaminants (or residues) colle	•			
NOI		Date installation completed Marc				
	• •	. FAIR CASH VALUE IF CONSIDER		\$106,404,865.27		
POI DA		NET SALVAGE VALUE IF CONSID		\$ 532,024		
TING				\$ 0		
NNO	d					
ACC			TY BEARS TO WHOLE FACILITY			
Sec. F						
SIGNATURE	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. John Swearengen John Swearengen Title					
Sec. G			INS FOR COMPILING AND FILING APP	LICATION		
	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					
	Sec. 8	outside of municipal boundaries. The pr Self-explanatory. Submit copies of all po		encies. (e.g. MSD Construction Permit)		
	Sec. C	Refers to manufacturing processes or m	aterials on which pollution control facility	ris used.		
INSTRUCTIONS	Sec. D	State the type of control facility. State p	ermit number, date, and agency issuing <u>htrol facility</u> . Include a listing of each maj	pose is to eliminate, prevent or reduce pollution. permit. A narrative description and a process jor piece of equipment included in the claimed effluent of the control facility stating the		
	Sec. E					
	Sec. F Self-explanatory. Signature must be a corporate authorized signature.					
		Submit to:	Attention:	Attention:		
		P.O. Box 19276	Al Keller Permit Section Division of Water Pollution Control	Donald E. Sutton Permit Section Division of Air Pollution Control		

Attachment Application for Certification (Property Tax) Pollution Control Facility Marathon Petroleum Company LLC

Project: Gasoline Desulfurization Unit (GDU)

Section C - Manufacturing Process

Describe Unit Process:

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The project is to install a Gasoline Desulfurization Unit (GDU) at the Robinson refinery to remove sulfur from petroleum fuels to meet government regulations for mandated sulfur levels in gasoline. Sulfur atoms can be attached or imbedded anywhere in the various hydrocarbon molecules and mechanical processes such as distillation can not remove this sulfur. Therefore, the following two-step GDU process is required for sulfur removal:

- Selective Hydrogenation Unit (SHU)
- Hydrodesulfurization Unit (HDS)

The feed streams for the GDU are from the Fluid Catalytic Cracking Unit (FCCU) and Light Coker Naphtha which contain almost all of the sulfur in the gasoline pool. With the use of reactors and splitters, the SHU and HDS remove sulfur from the raw material (naphtha) as it comes out of the FCCU and the Coker units. In this process, the naphtha is separated into two streams: light naphtha (low-sulfur product) and heavy naphtha (high sulfur). The goal is to reduce the sulfur content to an acceptable reading of 50 ppm or less. The desired results are achieved with the Prime-G+ Process developed by Axens.

Materials Used in Process:

- Naphtha
- Axens (HR806, ACT 068, HR 841, ACT 072, and ACT 845S)
- Betz Max-Amine (57c, 70b)
- Ondeo-Nalco Ec1014a
- Fuel Gas
- Lean MDEA and Rich MDEA
- Sour Water
- Hydrogen rich gas
- Steam
- SHU feed drums
- SHU reactors
- Naphtha Splitter
- HDS reactor
- HDS heater

Section D – Pollution Control Facility Description

Describe Pollution Abatement Control Facility:

Government mandated environmental regulations have identified sulfur in petroleum fuels as an air pollutant. It has also been state that the presence of sulfur in gasoline retards pollution control equipment on motor vehicles, thus increasing tailpipe emissions that adversely affects human health and the environment. Therefore, to eliminate the source of this contamination under "Tier 2" of the Clean Air Act, sulfur in the gasoline pool must be reduced to 30 ppm by January 1, 2006. The sole purpose of the Robinson Gasoline Desulfurization Unit (GDU) is to reduce the sulfur content in the FCCU and Light Coker Naphtha (LCN) streams with no economic benefits resulting to the refinery. The GDU was designed, constructed, installed and operated for the primary purpose of reducing the sulfur content of hydro-carbon fuels. Without such treatment of the FCCU's and Light Coker Naphthas' streams, sulfur would continue to be present in the petroleum fuels which would result in air pollution in excess of the "Tier 2" standards. Should sulfur not be removed from petroleum fuels, it will interfere with the vehicle catalytic converter's ability to remove NOx and other "critical pollutants" resulting in the creation of smog which causes lung inflammation, reduced lung function, breathing discomfort as well as damaging crops and forests.

In summary, the GDU was constructed only to meet a governmental mandate which enables the Robinson refinery to stay in business. The Robison refinery receives no economic incentives or financial benefit from the GDU. The GDU will reduce the sulfur content in naphtha from a maximum of 1,769 ppm down to an acceptable nominal sulfur content of 50 ppm, thus reducing smog and enhancing human health.

Below is an overview of the process:

GDU Overview

SHU Feed & Preheat Section

- 1. Feed drum provides surge capacity, hold up capacity & water removal
- 2. Hydrogen injection point to SHU feed
- 3. Provides temp. control for the SHU reactors

SHU Reactors

- 1. Decrease diolefins present in the feed sources
- 2. Conversion of light sulfur compounds to heavy sulfur compounds
- 3. Minor octane increase due to isomerization of external olefins to internal olefins (higher octane number)

Naphtha Splitter

1. Fractionate SHU Rx effluent into light naphtha and heavy naphtha stream

Purpose of First HDS Reactor

1. Decrease sulfur in the splitter bottoms stream down to sulfur specifications

Second HDS Rx & Heater

- 1. Complete the residual desulfurization reactions (10-15%)
- 2. Prevent recombination of H2S and Mercaptans to form sulfur compounds

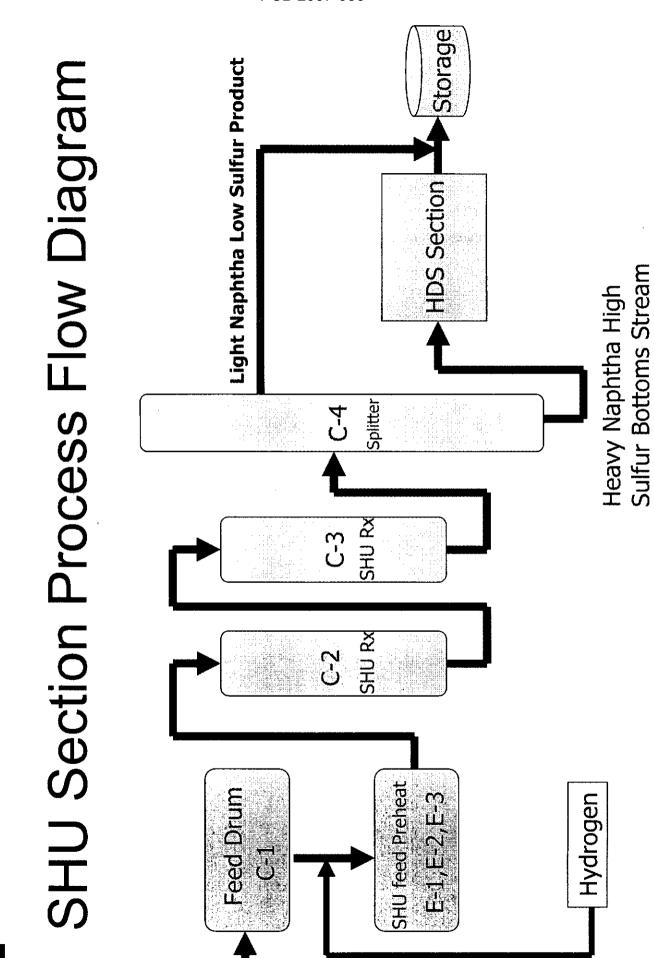
74C-9 Amine Absorber

1. Uses Lean Amine to remove H2S from the recycle hydrogen stream

74K-1 Recycle Compressor

- 1. Takes suction from the KO drum and "recycles" the hydrogen for reuse in HDS section
- 2. Recycle hydrogen is used for:
 - a. Quench gas in the First HDS Rx
 - b. Treat gas to the HDS feed stream

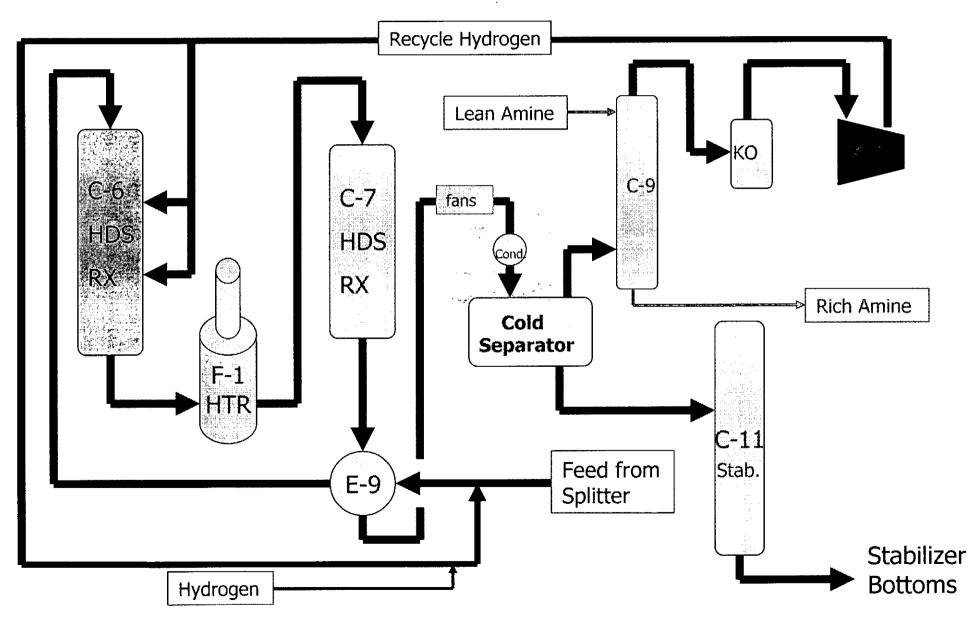
Process flow diagrams of the SHU and HDS are attached.



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ELECTRONIC FILING, RECEVIED, CLERK'S OFFICE, JANUARY 4, 2007 ***** PCB 2007-056 ****

HDS Section Process Flow Diagram





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

Memorandum

Technical Recommendation for Tax Certification Approval

Date: December 04, 2006

To: Robb Layman

From: Don Sutton

Subject: Marathon Petroleum Company LLC TC-06-02-01A

This Agency received a request on February 01, 2006 from Marathon Petroleum Company LLC 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:

Gasoline Desulfurization Unit(GDU) whose primary purpose is to remove Sulfur from petroleum fuels to meet government regulations for mandated Sulfur levels. The reduced Sulfur levels in turn reduces the amount of S02 emissions. Because the primary purpose of this unit is to reduce or eliminate air pollution, it is certified as a pollution control facility.

This facility is located at Route 33, Robinson, Crawford County The property identification number is Part of 54-34-1-21

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 B