BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

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)	PCB 12-
)	(Tax Certification - Air)
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NOTICE

TO: [Electronic filing]

John Therriault, Assistant Clerk Illinois Pollution Control Board State of Illinois Center

100 W. Randolph Street, Suite 11-500

Chicago, Illinois 60601

[Service by mail]
Michael Kemp
WRB Refining, LLC
404 Phillips Building
Bartlesville, Oklahoma 74004

[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: November 28, 2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East

P.O. Box 19276

Springfield, IL 62794-9276 Telephone: (217) 524-9137

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

WRB REFINING, LLC)	
Gasoline Hydrotreater)	
)	
)	
)	PCB 12-
)	(Tax Certification - Air)
PROPERTY IDENTIFICATION NUMBER)	
19-1-08-35-00-000-001 or portion thereof)	

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

Date: November 28, 2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

Telephone: (217) 524-9137

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

WRB REFINING, LLC)	
Gasoline Hydrotreater)	
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PROPERTY IDENTIFICATION NUMBER)	
19-1-08-35-00-000-001 or portion thereof)	

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 or about October 14, 2010, the Illinois EPA received an application and supporting information from WRB REFINING, LLC, ("WRB Refining") concerning the proposed tax certification of certain air emission sources and/or equipment located at its Wood River petroleum refinery in Madison County, Illinois. A copy of the application is attached hereto. [Exhibit A].
 - 2. The applicant's principal business address is as follows:

WRB Refining LLC 404 Phillips Building Bartlesville, Oklahoma 74004

3. The facility address is as follows:

WRB Refining LLC 900 South Central Avenue P.O. Box 76 Roxana, Illinois 62084

- 4. The subject matter of this request involves the installation of a hydrotreater to enable the refinery to remove sulfur from the heavy gasoline stream produced by the Fluid Catalytic Cracker Unit ("FCCU") and thereby comply with the stricter requirements previously put into place by the United States Environmental Protection Agency for reformulated gasoline. The Gasoline Hydrotreater employs a fixed bed hydrotreating catalyst, hydrogen, high pressure and high temperature to process the FCCU stream into a stable, low-sulfur gasoline product used for blending with finished gasoline. The system acts to prevent or reduce emissions of sulfur oxides from the gasoline pool supplied to consumers for use in automobiles and other gasoline-powered engines. Secondarily, the improved quality of low-sulfur gasoline allows consumers to make use of more advanced emission control systems for gasoline engines, which can result in lower emissions of nitrogen oxides and particulate matter.
- 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 Gasoline Hydrotreater 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 B].

8. Because the substantive components of the application for the Gasoline

Hydrotreater satisfies the aforementioned criteria, the Illinois EPA recommends that the Board

issue the applicant's requested tax certification.

Respectfully submitted by,

|s| Robb H. Layman

Robb H. Layman Assistant Counsel

DATED: November 28, 2011

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 28th day of November, 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 Michael Kemp WRB Refining, LLC 404 Phillips Building Bartlesville, Oklahoma 74004

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

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

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

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.

r	FOR AGENCY USE			аррисации тог сегипсации.	
	FOR AGENCT OSE				
File No.	Date Received	Certification No.		Date	
Sec. A	Company Name				
	WRB Refining LLC				
	Person Authorized to Receive Certification		Person to Contact for Additional Details		
	Michael Kemp	· · · · · · · · · · · · · · · · · · ·	Gordon Terhune		
	Street Address 404 Phillips Building		Street Address 900 S. Central Ave., P.O. Box 76		
[Municipality, State & Zip Code			tate & Zip Code	
NA FN	Bartlesville, OK 74004		Roxana, IL 62084		
APPLICANT	Telephone Number		Telephone Number		
	(918) 661-9055		(618) 255-2876		
	Location of Facility		Municipality	Township	
	Quarter Section Township	Range			
	Street Address		County	Book Number	
	900 S. Central Ave.		Madison		
-	Property Identification Number		Parcel Numbe	•	
			19-1-08-35-0	0-000-001	
Sec. B	Nature of Operations Conducted at the Above	e Location			
	Petroleum Refining				
	Ĭ				
Z SZ	Water Pollution Control Construction Permit I	Via.	Date Issued		
PSE SE	Water Foliation Construction Fermit	4 0.	Date 155aca		
MANUFACTURING	NPDES PERMIT No.		Date Issued	Expiration Date	
A NA	IL0000205		04/14/04	04/14/09	
2	Air Pollution Control Construction Permit No.		Date Issued		
	97010009		02/24/97		
	Air Pollution Control Operating Permit No.		Date Issued		
	95120306		11/07/03		
Sec. C	Describe Unit Process				
	See Gasoline Hydrotreater Project Attach	ment.			
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MANUFACTURING PROCESS	Materials Used in Process				······································
ROC					
A N.	See Gasoline Hydrotreater Project Attach	ıment.			
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Sec. D	Describe Pollution Abatement Control Facility	1			
z	See Gasoline Hydrotreater Project Attach	ment			
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POLLUTION CONTROL FACILITY DESCRIPTION		ETHERSON DESCRIPTION		NAMES OF THE PROPERTY OF THE P	
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Cort		F	xhibit 1	T	
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Sec. E							
	(1) N	ature of Contaminants or Pollutants					
POLLUTION CONTROL FACILITY - CONTAMINANTS CONTAMINANTS	-		Material Reta	ined, Capti	red or Recove	red	
		aminant or Pollutant	DESCRIPTION		ISPOSAL OR		
	Sulfur	oxides (SOx)	Hydrogen Sulfide	Recovere	d and converted	d to solid	
₹¥				elemental	sulfur.		
i Ö	-						
F.I.T.				1			
FAC	(2) P	oint(s) of Waste Water Discharge		<u> </u>			
SOL	(2) Totale valer blockings						
ENC			Plans and Specifications	Attached	Yes 🔲	No 🗵	
Š	(3)	Are contaminants (or residues) collecte			Yes ⊠	No 🗆	
ЛІО	(4)	Date installation completed 10/04/97	status of installation o	n date of a	oplication <u>ICc</u>	:9 <u>-</u>	
OLL((5)	 a. TOTAL INSTALLED COST 			\$ 31,800,000	.00	
P(b. NET SALVAGE VALUE IF CONSIDER	ED REAL PROPERTY:		\$ 190,800.00		
AI L		c. PRODUCTIVE GROSS ANNUAL INCO	OME OF CONTROL FACILITY:		\$ 0.00		
noo		d. PRODUCTIVE NET ANNUAL INCOME	OF CONTROL FACILITY:		\$ 0.00		
AC		e. PERCENTAGE CONTROL FACILITY	BEARS TO WHOLE FACILITY	VALUE;	[%] To Be Dete	rmined	
Sec. F	The fo	ollowing information is submitted in accordan	ce with the Illinois Property Tax	Code, as ar	nended, and to th	ne best of my	
	knowl	edge, is true and correct. The facilities claim					
J. CR.	Illinois	s Property Tax Code.					
SIGNATURE	Len (Hay DIRECTOR-PTERC						
SIG	Cinn	V					
Sec. G	Sign		tle FOR COMPILING AND FILING API	PLICATION			
	_						
	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.						
	F	operations are related, file two applications. If atta	achments are needed, record them	consecutively			
	Sec.	A Information refers to applicant as listed in the	e tax records and the person to be o	ontacted for fi	ırther details or for		
	Sec. /	A Information refers to applicant as listed in the facilities. Define facility location by street add	e tax records and the person to be o	ontacted for fi	ırther details or for		
	Sec.	A Information refers to applicant as listed in the facilities. Define facility location by street adoutside of municipal boundaries. The proper	e tax records and the person to be o dress or legal description. A plat m rty identification number is required	ontacted for fi ap location is	orther details or for required for facilitie	s located	
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APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY WRB – Wood River Refinery

Project: Gasoline Hydrotreater (GHT)

Section C – Manufacturing Process

Process Description:

The Wood River Refinery Gasoline Hydrotreater (GHT) Project was implemented to reduce the emission of sulfur oxides (SOx) pollution from the use of gasoline.

The timing and extent of the gasoline sulfur reduction was set to meet the US EPA requirements for Reformulated Gasoline which went into effect January 1, 1998. Prior to the Reformulated Gasoline requirements, gasoline produced by the Wood River Fluid Catalytic Cracking (FCC) units was routed to gasoline blending with no reduction in sulfur content. The Reformulated Gasoline mandate required the Wood River Refinery to install equipment to deeply hydrotreat approximately 30% of the FCC produced gasoline.

The Fluid Catalytic Cracker Unit (FCC or CCU) is a process that uses heat and a catalyst to break large hydrocarbon molecules into smaller, more useful molecules. The solid FCC catalyst is similar in texture and size to sugar. This catalyst can be fluidized by passing air, steam, or hydrocarbon vapors through the catalyst. In the FCC process, the feed stream which contains large hydrocarbon molecules is heated and mixed with hot regenerated catalyst at the bottom of a reactor riser. The hot catalyst vaporizes the feed producing a fluidized catalyst/oil mixture which flows up the reactor riser. The large oil molecules break into a wide range of smaller molecules in the reactor riser. At the top of the riser, the hydrocarbon vapors are separated from the catalyst by cyclones in the reactor. The hydrocarbons flow to a distillation column where they are condensed and separated by boiling range. A full range of products are produced including fuel gas, LPG, gasoline, diesel, and heavy oil. Coke is laid down on the catalyst as a byproduct of the cracking reaction in the reactor. The coked (spent) catalyst separated in the reactor cyclones drops into a stripping section where steam is used to remove any light hydrocarbons that remain on the catalyst before sending the catalyst to the regenerator. In the regenerator air is blown through the catalyst to burn the coke off the catalyst making it suitable to send back to the reactor.

Due to the presence of sulfur in the FCC feed stream, the FCC products also contain sulfur. The GHT Project modified the FCC gasoline system and the Column 6 Distillation Tower to produce a Heavy FCC gasoline stream. Production of a Heavy FCC gasoline stream allowed the Wood River Refinery to meet the Reformulated Gasoline requirements by deeply hydrotreating only 30% of the FCC produced gasoline.

The GHT unit uses hydrogen, fixed bed hydrotreating catalyst, high pressure, and elevated temperature to remove sulfur from Heavy FCC gasoline. The Heavy FCC gasoline feed stream is mixed with hydrogen, heated, and sent to the reactor. In the reactor, the gasoline contacts fixed bed hydrotreating catalyst which removes the sulfur from the gasoline and converts it to H2S. The reactor effluent is cooled via heat recovery exchangers and routed to a recovery/stabilization section where light material is recovered and sent to the Sats Gas Plant for further processing. The stabilized low sulfur gasoline product is routed to storage for blending into finished gasoline. A simplified process flow diagram for the GHT unit is attached.

Materials Used in Process: FCC gasoline
Hydrogen
Catalysts
Steam
Hot Oil Heat Medium

Section D - Pollution Control Facility Description

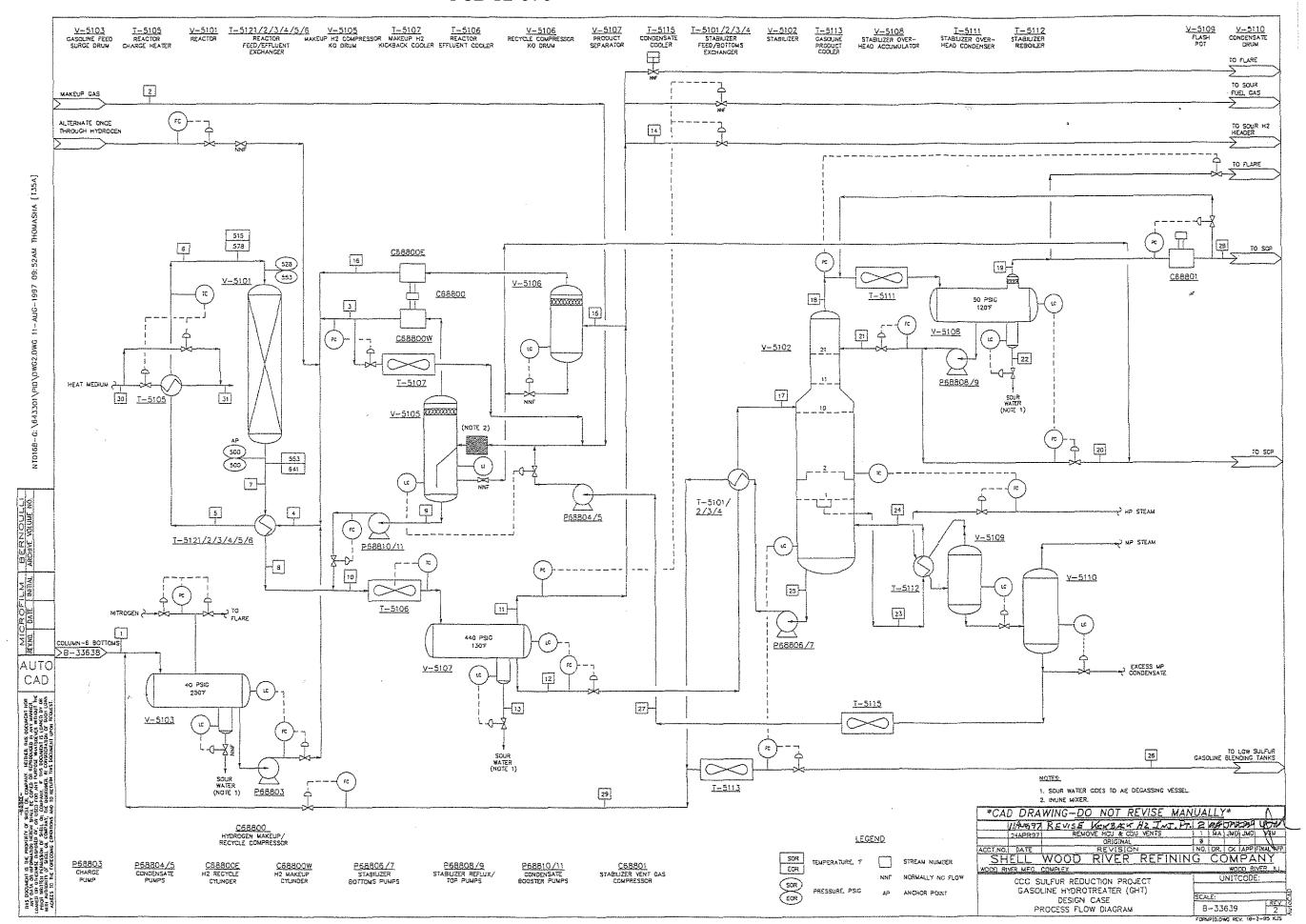
The Wood River Refinery Gasoline Hydrotreater (GHT) Project was implemented solely to reduce air pollution due to SOx, NOx, and particulates. By removing sulfur from a gasoline stream, this Pollution Control Facility reduces the emission of sulfur oxides (SOx) pollution from the use of gasoline. Prior to the Reformulated Gasoline requirements, gasoline produced by the Wood River Fluid Catalytic Cracking (FCC) units was routed to gasoline blending with no reduction in sulfur content. This project installed a pollution control facility which allowed the Wood River Refinery to deeply hydrotreat and thus eliminate the sulfur from approximately 30% of the FCC produced gasoline. This pollution control facility directly prevents the emission to the atmosphere of approximately 2,800 tons per year of SOx.

Also, the production of low sulfur gasoline allows gasoline engines to be fitted with advanced emission control systems that would otherwise be poisoned by sulfur. These advanced emission control systems can greatly reduce emissions of oxides of nitrogen and particulate matter. Thus, low sulfur gasoline is a necessary and integral part of the automotive pollution reduction system.

Thus, this project provides pollution control in two ways. First, the project directly reduces SOx pollution by removing sulfur from the gasoline product. Second, the project provides the gasoline quality necessary for reducing emissions of oxides of nitrogen and particulate matter through the use of advanced emission control systems in gasoline engines.

The sulfur recovered by this pollution control facility does generate some revenue for the Wood River Refinery, but the costs to operate the pollution control facility are greater than this revenue and thus this pollution control facility results in no net income for the Wood River Refinery

In summary, the Wood River Refinery Gasoline Hydrotreater (GHT) Project was implemented solely to reduce SOx, NOx, and particulate pollution.



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

PAT QUINN, GOVERNOR

Technical Recommendation for Tax Certification Approval

Date:

November 18, 2011

To:

Robb Layman

From:

Edwin C. Bakowski 7

Subject:

WRB Refining, LLC. TC-10-10-14AE

This Agency received a request on October 14, 2010 from WRB Refining, 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 Hydrotreater Project (GHT) which removes Sulfur from the gasoline stream produced by the fluid catalytic cracking unit (FCC). The gasoline Hydrotreater project modifies the FCC gasoline system which reduces SOX emissions. Because the primary purpose of this system is to reduce or eliminate air pollution, it is certified as a pollution control facility.

This facility is located at 900 South Central Avenue, Roxana, Madison County The property identification number is 19-1-08-35-00-000-001

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.

FEM: psj

Exhibit B