BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

WRB REFINING, LLC)	
Ultralow Sulfur Diesel Expansion Project)	
)	
)	PCB 12-
)	(Tax Certification - Air)
PROPERTY IDENTIFICATION NUMBER)	
19-1-08-35-00-000-001 or portion thereof)	

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

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

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,

Is 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

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WRB REFINING, LLC Ultralow Sulfur Diesel Expansion Project

PROPERTY IDENTIFICATION NUMBER 19-1-08-35-00-000-001 or portion thereof PCB 12-(Tax Certification - Air)

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

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WRB REFINING, LLC Ultralow Sulfur Diesel Expansion Project

PROPERTY IDENTIFICATION NUMBER 19-1-08-35-00-000-001 or portion thereof PCB 12-(Tax Certification - Air)

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 consists of an upgrade to the Ultralow Sulfur Diesel ("ULSD") operations at the refinery. As described in the application, the project consists of the following: 1) the expansion of the existing ULSD Hydrotreater, including the construction of a new vent gas compressor for reducing the loss of hydrocarbons to the flare system; 2) conversion of an idled Cat Feed Hydrotreater to a new ULSD Hydrotreater to produce ULSD; 3) modifications to the Hydrocracker Unit to allow it to hydrotreat high sulfur diesel streams to produce ULSD; and 4) installation of a diesel recovery column to recover ULSD from other product streams from the Hydrocracker; 5) installation of a new hydrogen plant to supply the need the additional hydrogen for the hydrotreating process.

5. The ULSD Expansion Project allows the refinery to continue to comply with the United States' Environmental Protection Agency's diesel fuel content requirements, which were established at roughly less than 15 parts per million by weight. In doing so, the project ultimately enables the company to prevent or reduces emissions of sulfur oxides from the diesel pool supplied to consumers for use in automobiles and other diesel-powered engines. Secondarily, the improved quality of low sulfur diesel products allows consumers to make use of more advanced emission control systems for diesel engines, which can result in lower emissions of nitrogen oxides and particulate matter.

6. 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."

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

8. Based on information in the application and the underlying purpose of the ULSD Expansion 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 B].**

9. Because the substantive components of the application for the ULSD Expansion Project satisfies the aforementioned criteria, the Illinois EPA recommends that the Board **issue** the applicant's requested tax certification.

Respectfully submitted by,

1st Robb <u>H. Layman</u>

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

Electronic Filing - Received, Clerk's Office, 11/28/2011

* * * * * PCB 12-075 * * * * *

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

> 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.	Nata Received	Certification No.	ח	ate		
Sec. A	Company Name					
	WRB Refining LLC					
	Person Authorized to Receive Certification	i	Person to Contact for Addit	tional Details		
	Michael Kemp		Gordon Terhune			
	Street Address		Street Address	Boy 76		
	404 Phillips Building		Municipality State & Zin C	odo		
ANT	Bartlesville, OK 74004		Roxana, IL 62084	oue		
FIC	Telephone Number		Telephone Number			
APF	(918) 661-9055		(618) 255-2876			
	Location of Facility		Municipality 1	Fownship		
	Quarter Section Township	Range				
	Street Address		County E	Book Number		
	900 S. Central Ave.		Madison			
	Property Identification Number		Parcel Number	· · · · · · · · · · · · · · · · · · ·		
			<u> 19-1-08-35-00-000-001</u>			
Sec. B	Nature of Operations Conducted at the Ab	ove Location				
	Petroleum Refining					
9 2						
URII	Water Pollution Control Construction Perm	iit No.	Date Issued			
ACT						
NUF	NPDES PERMIT No.		Date Issued	Expiration Date		
WAI	IL0000205		04/14/04	04/14/09		
	Air Pollution Control Construction Permit N	10.	Date Issued			
	Air Pollution Control Operating Permit No.		Dato Issued			
	95120306		11/07/03			
Sec. C	Describe Unit Process					
	See Ultralow Sulfur Diesel Expansion F	Project Attachme	nf			
RING						
CTU	Materials Used in Process		<u> </u>			
JFA(Watehals Osed in 1 100ess					
N KANI	See Ultralow Sultur Diesel Expansion Project Attachment.					
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Sec D	 Describe Pollution Abstement Central Fac	iji4.7		······································		
Sec. D	Describe Foliation Abatement Control Fac	inty .				
10NOI	See Ultralow Sulfur Diesel Expansion Project Attachment.					
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		0023729	F. J. A	-		
OLLY			Exhibit A			
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Tax Certification for Pollution Control Facilities Page 1 of 2 8/00

		Material R	etained, Captured	d or Recovered	
Conta	aminant or Pollutant	DESCRIPTION	DISI	POSAL OR USE	
Sulfur	oxides (SOx)	Hydrogen Sulfide	Recovered an	Recovered and converted to soli	
			elemental sul	lfur.	
Nitrog	en Oxides (NOx)	Nitrogen Gas	N2 not conve	erted to NOx	
Partic	ulates	Particulates	Trapped or co	Trapped or converted by new cc	
$\left(2\right) PC$	DIRT(S) OF WASTE WATER DISCHARGE		· · · · · · · · · · · · · · · · · · ·		
		Plans and Specification	ons Attached Ve		
(3)	Are contaminants (or residues) or	pliected by the control facility?			
(4)	Date installation completed 04/0	1/12 status of installation	on date of appli	ication 92%	
(5)			\$	406 049 794 00	
$\vdash \square$	- TOTAL INSTALLED COST		¢	400,940,701.00	
	D. NET SALVAGE VALUE IF CON		Ψ 	8,120,000.00	
			Y: \$	0.00	
	d. PRODUCTIVE NET ANNUAL IN	ICOME OF CONTROL FACILITY:	\$	0.00	
	e. PERCENTAGE CONTROL FAC	ILITY BEARS TO WHOLE FACILIT	TY VALUE: %	To Be Determine	
The fc	llowing information is submitted in acc	cordance with the Illinois Property T	ax Code, as amen	ded, and to the bes	
Illinois	Property Tax Code.				
1 1/		(be-			
6	en C. This	DIRECTOR - PTRRC			
Signa	en C. Jun	DIRECTOR - PTRRC Title			
Signa	en C. Juny ature INSTRUC	DIRECTOR - PTRRC Title	APPLICATION	or and air) Whore be	
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APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY WRB – Wood River Refinery

Project: Ultralow Sulfur Diesel Expansion Project

Section C - Manufacturing Process

Process Description:

As the Wood River Refinery expanded, the Ultralow Sulfur Diesel (ULSD) Expansion Project was implemented to prevent the emission of sulfur oxides (SOx) pollutants due to consumer use of the diesel product.

This project enables the refinery to continue to meet the US EPA mandate that refiners reduce the sulfur content in diesel to 15 ppm. The allowable sulfur content for ULSD (15 ppm) is much lower than the previous U.S. on-highway standard for low sulfur diesel (LSD, 500 ppm), which not only reduces emissions of sulfur compounds (a cause of acid rain), but also allows diesel engines to be fitted with advanced emission control systems that would otherwise be poisoned by these compounds. Together, ultralow sulfur diesel and advanced emission control systems can greatly reduce emissions of oxides of nitrogen and particulate matter.

The Wood River ULSD Expansion Project was managed as four separate sub-projects: (1) the expansion of the existing ULD Hydrotreater including installation of a vent gas compressor to reduce loss of light hydrocarbon gases to the flare (2) conversion of an idled Cat Feed Hydrotreater to an Ultralow Sulfur Diesel Hydrotreater Unit (ULD-2) to produce ULSD (3) revisions to the Hydrocracker (HCU) so that it could hydrotreat high sulfur diesel streams and produce ULSD and (4) installation of a diesel recovery column (the HCU Flasher or HCF) to recover ULSD from other HCU products. Hydrotreating diesel streams to produce ULSD requires a substantial volume of hydrogen. The additional hydrogen required by the ULSD Expansion Project was supplied via the installation of a new hydrogen plant, HP-2.

The ULD and ULD2 units use hydrogen, fixed bed hydrotreating catalyst, high pressure, and elevated temperature to remove sulfur from high sulfur diesel streams such as straight run, Fluid Cat Cracker (FCC), and coker light gasoil streams. The ULD or ULD2 feed stream is mixed with hydrogen, heated, and sent to the high pressure reactor. In the reactor, the feed stream contacts fixed bed hydrotreating catalyst which removes the sulfur from the feed 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. The H2S generated by the reactors is recovered and routed to the Sulfur Plant where it is converted to elemental sulfur. The stabilized ultralow sulfur diesel is routed to storage. Simplified process flow diagrams for the ULD and ULD2 units are attached.

The Hydrocracker (HCU) use hydrogen, fixed bed hydrotreating and hydrocracking catalysts, high pressure, and elevated temperature to remove sulfur and nitrogen and to hydrocrack high sulfur and high nitrogen streams such as light and heavy gasoil streams. The HCU products are extremely low in sulfur and nitrogen and high in hydrogen, making HCU products some of the cleanest burning transportation fuels. Recent advances in hydrocracking catalyst significantly increase the HCU ability to produce ULSD. As part of the Wood River ULSD Expansion Project, the HCU was revised so that it could hydrotreat high sulfur diesel streams and produce ULSD. This ULSD is recovered from other HCU products in a diesel recovery column called the HCU Flasher or HCF. The H2S removed from the diesel feed streams is recovered and routed to the Sulfur Plant where it is converted to elemental sulfur. The HCU produced ultralow sulfur diesel is routed to storage. A simplified process flow diagram of the HCF Diesel Recovery column is attached.

Materials Used in Process: High sulfur gasoil Hydrogen Catalysts Steam Fuel Gas

Section D - Pollution Control Facility Description

If the emission of SOx pollution was not a concern, the additional diesel produced by the Wood River Refinery could and would be blended directly with other diesel components and sold as high valued diesel. However, SOx pollution is a significant concern and thus the Wood River Refinery expanded the ULSD facilities to remove sulfur from diesel streams so that this material could be used as diesel without the emission of SOx pollution. The ULSD expansion directly prevents the emission to the atmosphere of approximately 120 metric tons per day of SOx.

This project also enables the refinery to continue to meet US EPA requirements that diesel sulfur content is less than 15 parts per million by weight (ppmw). The ultralow sulfur diesel reduces emissions of sulfur compounds (a cause of acid rain) and also allows diesel engines to be fitted with advanced emission control systems that would otherwise be poisoned by sulfur. Thus, ultralow sulfur diesel is a necessary and integral part of the diesel pollution reduction system, allowing advanced emission control systems which can greatly reduce emissions of oxides of nitrogen and particulate matter.

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





HYDROCRACKER FLASHER PROCESS FLOW DIAGRAM



DRAWN BY: M CHIHAK ORIGINAL: 7/26/07 REVISED: 8/13/09

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829 James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

> PAT QUINN, GOVERNOR Memorandum

Technical Recommendation for Tax Certification Approval

Date: November 28, 2011

To: Robb Layman

From: Ed Bakowski 🎝

Subject: WRB Refining LLC TC-10-14-10Q

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:

Ultralow Sulfur Diesel Expansion Project, which undertakes various upgrades and new construction of certain process units that enable the refinery to prevent or reduce emissions of sulfur oxides from the diesel pool supplied to consumers in automobiles and other diesel-powered engines. In addition, the improved quality of low sulfur diesel products allows consumers to make use of more advanced emission control systems for diesel engines, which can result in lower emissions of nitrogen oxides and particulate matter. Because the primary purpose of this system is to reduce or prevent air pollution, it can be certified as a pollution control facility.

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

Based on the information included in this submittal, it is my engineering judgment 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.

Erhibit B

Rockford • 4302 N. Main St., Rockford, IL 61103 • (815) 987-7760 Elgin • 595 S. State, Elgin, IL 60123 • (847) 608-3131 Bureau of Land -- Peoria • 7620 N. University St., Peoria, IL 61614 • (309) 693-5462 Collinsville • 2009 Mall Street, Collinsville, IL 62234 • (618) 346-5120 Des Plaines • 9511 W. Harrison St., Des Plaines, IL 60016 • (847) 294-4000 Peoria • 5415 N. University St., Peoría, IL 61614 • (309) 693-5463 Champaign • 2125 S. First St., Champaign, IL 61820 • (217) 278-5800 Marion • 2309 W. Main St., Suite 116, Marion, IL 62959 • (618) 993-7200

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