	IS POLLUT STATE OF	TION CONTROL BOARD ILLINOIS
WRB REFINING, LLC Continuous Emissions Monitoring System Consent Decree Improvements for Flare PROPERTY IDENTIFICATION NUME 19-1-08-35-00-000-001 or portion thereo	es BER)) PCB 12-) (Tax Certification - Air))
	NOTICE	
Pollution Control Board the APPEARA ? Environmental Protection Agency, a pap	nave today ele NCE and RE0 er copy of wh	nich is herewith served upon the applicant
and a representative of the Illinois Depar		ully submitted by,
		Tobb H. Layman Layman
Date: November 29, 2011		
ILLINOIS ENVIRONMENTAL PROTE 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276 Telephone: (217) 524-9137	ECTION AGE	ENCY

	LLUTION CONTROL BOARD E OF ILLINOIS
WRB REFINING, LLC Continuous Emissions Monitoring System and Consent Decree Improvements for Flares PROPERTY IDENTIFICATION NUMBER 19-1-08-35-00-000-001 or portion thereof)))) PCB 12-) (Tax Certification - Air))
APPEA	ARANCE
I hereby file my Appearance in this pro-	oceeding on behalf of the Illinois Environmental
Protection Agency.	
Re	spectfully submitted by,
	s/ Robb <u>H. Layman</u>
	obb H. Layman sistant Counsel
Date: November 29, 2011	
ILLINOIS ENVIRONMENTAL PROTECTION 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 Telephone: (217) 524-9137	N AGENCY

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD OF THE STATE OF ILLINOIS

WRB REFINING, LLC)	
Continuous Emissions Monitoring System and)	
Consent Decree Improvements for Flares)	
•)	PCB 12-
)	(Tax Certification - Air)
PROPERTY IDENTIFICATION NUMBER)	,
19-I-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 various improvements to four separate flare systems operating at the refinery, which emit emissions of sulfur oxides and nitrogen oxides. The flare systems, designated as the Alky Flare, the North Property Flare, the Distilling West Flare and the Aromatics North Flare, were upgraded to address the regulatory requirements of the New Source Performance Standards, Subpart J, and a federal consent decree. As described in the application, the improvements included the installation of a flow meter and a continuous emissions monitoring system ("CEMS") for hydrogen sulfides, including instrumentation and controls, and a replaced valve to separate the flare from the North Property Flare. The same type of flow meter and CEMS for hydrogen sulfides was installed on the North Property Flare as well. The improvements also included the installation of an ultrasonic flow meter for the Distilling West Flare and a temporary flare sample station for the Aromatics North Flare, both of which are intended to provide data for addressing future regulatory compliance requirements. The CEMS and Consent Decree Improvements for Flares project acts to reduce or prevent emission of sulfur oxides and nitrogen oxides that would otherwise be released to the atmosphere.1
- 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."

It should be noted that parallels can be drawn from at least two similar CEMS projects recommended for tax certification by the Illinois EPA, and ultimately granted by the Board, in 2002 and 2007. See, Aux Sable Liquid Products, PCB No. 02-124 (CEMS)(Property Identification Nos. 03-22-100-003, 03-22-100-008, 03-22-100-009 and 03-22-100-011) (March 21, 2002) and Marathon AshIand Petroleum Company, LLC, PCB No. 07-55 (CEMS)(Property Identification No. 54-34-1-21)(January 26, 2007).

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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 CEMS

and Consent Decree Improvements for Flares 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].

8. Because the substantive components of the application for the CEMS and Consent

Decree Improvements for Flares project 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 29, 2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East

P.O. Box 19276

Springfield, Illinois 62794-9276

Telephone: (217) 524-9137

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CERTIFICATE OF SERVICE

I hereby certify that on the 29th 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

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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 502&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	-		, , , , , , , , , , , , , , , , , , , ,	
File No.	Date Received	Certification No.		Date	
Sec. A	Company Name WRB Refining LLC				
	Person Authorized to Receive Certification		Person to Contact for Addi	itional Details	
	1		Gordon Terhune		
	Street Address		Street Address		
	404 Phillips Building		900 S. Central Ave., P.O. Box 76		
Marionality, Ctata & Zin Cada			Municipality, State & Zip Code		
APPLICANT	Bartlesville, OK 74004		Roxana, IL 62084		
PLIC	Telephone Number		Telephone Number		
ΑP	(918) 661-9055		(618) 255-2876		
	Location of Facility	D	Municipality	Township	
	Quarter Section Township	Range			
	Street Address		County	Book Number	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	900 S. Central Ave.		Madison		
	Property Identification Number		Parcel Number		
			19-1-08-35-00-000-001		
Sec. B	Nature of Operations Conducted at the Abov	e Location			
	Petroleum Refining				
	,				
(1)					
N N N			D-1 II		
	Water Pollution Control Construction Permit	No.	Date Issued		
FAC	NPDES PERMIT No.		Date Issued	Expiration Date	
MANUFACTURING OPERATIONS	IL0000205		04/14/04	04/14/09	
Σ	Air Pollution Control Construction Permit No	·	Date Issued		
	NA	.,			
	Air Pollution Control Operating Permit No.		Date Issued		
	95120306		11/07/03		
Sec. C	Describe Unit Process				
	See Continuous Emissions Monitor Syst	em (CEMS) and	1 Concept Decree Improv	aments for 4 Existing	
	Flares attachment.	cm (CEMO) and	a Consent Decide Improv	Chieffs for 4 Existing	
ING	riares attachment.				
MANUFACTURII PROCESS			—		
FAC	Materials Used in Process				
Į ŠK	Refinery light to intermediate boiling range	ge hydrocarbon	s (Mixed C3, Mixed C4, N	/lixed C5, gasoline range	
Σ	hydrocarbons), Natural Gas, Steam				
•					
Sec. D	Describe Pollution Abatement Control Facili	ty		AAAL SHEA	
	See Continuous Emissions Monitor Syst	em (CEMS) and	d Consent Decree Improv	rements for A Evisting	
101	Flares attachment.	em (CEMO) and	a consent becree improv	ements for 4 Existing	
INO PIRIS	Traiss attachment.				
N C					
OIT!					
POLLUTION CONTROL FACILITY DESCRIPTION					
F A					

IL 532-0222

Tax Certification for Pollution Control Face
Page I of 2

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Sec. E	(1) Na	ature of Contaminants or Polluta	nts			
			NA-4	stained Ot-1	and or Date	rod
NTS.	Conteminant or Ballutant		DESCRIPTION	Material Retained, Captured or Recovered DESCRIPTION DISPOSAL OR USE		
	Contaminant or Pollutant SOx		Sulfur	Sold as p		USE
A.	NOx		N2		to atmosphere	
ONT	CO2		Hydrocarbons		Sold as product	
D	Soid do product					
CIL						
L FA	(2) P	pint(s) of Waste Water Discharge	e			
TRO				<u> </u>		
NO	/OS T		Plans and Specification	ons Attached	Yes 🗆	No 🗵
NO NO	(3)		collected by the control facility?	1-1-5	Yes 🗆	No 🗵
UTIC	(4)	Date installation completed 12/	status of installation	n on date of a		
OLL DAT/	(5)	a. TOTAL INSTALLED COST			\$ 1,454,000.0	00
7 9 N		b. NET SALVAGE VALUE IF CO	NSIDERED REAL PROPERTY:		\$ 14,000.00	
Ĭ.	c. PRODUCTIVE GROSS ANNUAL INCOME OF CONTROL FACILITY: \$ 0.00					
POLLUTION CONTROL FACILITY ~ ACCOUNTING DATA CONTAM.		d. PRODUCTIVE NET ANNUAL	INCOME OF CONTROL FACILITY:		\$ 0.00	
AC		e. PERCENTAGE CONTROL FA	ACILITY BEARS TO WHOLE FACILI	TY VALUE:	[%] To Be Dete	rmined
Sec. F	The fo	ollowing information is submitted in a	accordance with the Illinois Property	Гах Code, as ar	nended, and to the	ne best of my
	knowl	edge, is true and correct. The facilit	ties claimed herein are "pollution con			
URE	Illinois	s Property Tax Code.				
SIGNATURE		Va CST	2000			
SIG		new Jeny	DIRECTOR-PTRAC			
Sec. G	Signa		Title			
Sec. G		INSTRU	CTIONS FOR COMPILING AND FILING	APPLICATION		
Sec. G		al: Separate applications must be com	pleted for each control facility claimed. [o not mix types (
Sec. G	water	al: Separate applications must be com operations are related, file two applications	pleted for each control facility claimed. E	Do not mix types (em consecutively	on an index sheet.	
Sec. G		al: Separate applications must be comoperations are related, file two applications. A Information refers to applicant as literation for the facilities. Define facility location by	pleted for each control facility claimed. Each one. If attachments are needed, record the sted in the tax records and the person to be street address or legal description. A pla	Oo not mix types (em consecutively be contacted for fi at map location is	on an index sheet. urther details or for	inspection of
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APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY WRB – Wood River Refinery

Project: Continuous Emissions Monitor System (CEMS) and Consent Decree Improvements for 4 Existing Flares

Section C - Manufacturing Process

Process Description:

A flare is tall large diameter vertical stack with a continuously maintained flame at the top. During non routine operation such as loss of electrical power or loss of cooling water, refinery units must release hydrocarbon vapor and hydrogen streams to prevent overpressure of operating equipment. The flare combusts the released hydrocarbon vapor and hydrogen streams so that the volatile hydrocarbons (including Hazard Air Pollutants such as benzene) and other pollutants such as hydrogen sulfide and ammonia are not released to atmosphere.

Historically, the routing of some low volume low pressure hydrocarbon vapor and hydrogen streams to the flare has been permitted. Recovery and reprocessing of this material is not economical due to the low volume and low pressure of the streams and the high cost of recovery. These low volume streams contain some hydrogen sulfide (H2S) and ammonia (NH3) which produce SOx and NOx when combusted in the flare. The combustion of the hydrocarbon in the streams also produces CO2 which is released to the atmosphere.

As a means to reduce SOx, NOx, and CO2 pollution, new limits have been placed on the volume and H2S content of streams routed to flares. New flow meters and Continuous Emissions Monitor Systems (CEMS) must be installed to determine the volume of material flared and sulfur present in the material. This will result in reduced SOx, NOx, and CO2 emissions to air as the flares will be subjected to new and lower flaring limits and refinery operation will be revised to reduce air pollution from the flares.

The Alky Flare serves the Alkylation Unit and the Benzene Extraction Unit (BEU). Alkylation is a process by which propylene and butylene feeds undergo reaction with isobutane to form high octane motor gas blending component. The reaction is catalyzed with sulfuric acid.

The North Property Flare services two Fluid Catalytic Cracking Units (CCU-1 and CCU-2), the Cracked Gas Plant (CGP) from CCU-1 and CCU-2, tank farm spheres and bullets, LPG rail car loading rack, and 2 Maintenance Drop Out (MDO) systems. In addition, there are connection points on the flare line for future tie in of CCU-1, CCU-2, and CGP relief valves that currently relieve to atmosphere.

The Distilling West (DW) Flare serves the DU4/VF4 Crude/Vacuum distillation units and the Delayed Coking Unit (DCU). It also serves the DW fuel gas system

The Aromatics North Flare serves CR1, CR2/HDU1, and CR3/HDU2 naphtha hydrotreater/reformer units, the Szorb gasoline sulfur reducing unit, the distillate hydrotreater (DHT), the Hydrocracker (HCU), the Ultra Low Diesel unit (ULD), and the Maintenance Drop Out (MDO) system.

Section D - Pollution Control Facility Description

This capital program is considered a Pollution Control Facility because the sole purpose of these flare revisions is to identify and reduce SOx, NOx, and CO2 emissions to air.

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To meet New Source Performance Standards (NSPS) Subpart J a flow meter and H2S Continuous Emissions Monitor System (CEMS) was installed on the Alky Flare. This installation is shown on attached P&ID E45888. The project scope included instrumentation and controls and associated equipment such as an analyzer building. This project also replaced a valve which isolates the Alky Flare from the North Property Flare. This previous valve was found to be leaking high H2S content flare gas to the Alky Flare which has no flare gas recovery system. By replacing this valve and stopping this leak of H2S containing gas to the Alky flare, this project immediately reduced SOx pollution.

To meet New Source Performance Standards (NSPS) Subpart J a flow meter and H2S Continuous Emissions Monitor System (CEMS) was installed on the North Property Flare. This installation is shown on attached P&ID E58204. The project scope included instrumentation and controls and associated equipment such as an analyzer building.

To meet Consent Decree requirements concerning reduced pollution from flares, this project also installed an ultrasonic flow meter in the Distilling West flare to accurately measure flow to the flare and installed a temporary flare gas sample station in the Aromatics North flare line to determine composition of that flare stream. These revisions were required to determine the quantity and H2S content of the gas to the flares in order to address pollution from these flares.

In summary, this capital program is considered a Pollution Control Facility because the sole purpose of these flare revisions is to identify and reduce SOx, NOx, and CO2 emissions to air. The program immediately reduced SOx pollution on the Alky flare. In addition, the flow meters and CEMS analyzers are used to determine the volume of material flared and sulfur present in the material. This work has resulted in reduced SOx, NOx, and CO2 emissions to air as these flares are now subjected to new and lower flaring limits and refinery operation must be revised to reduce air pollution basis these new limits.

Electronic Filing - Received, Clerk's Office, 11/29/11 Wood River Refinery (S S CIRAL JOP SECRETARIAN SECRETAR V=751 SO-CO-CHAR PEATE CONTO 36 X24" E # 8 B HZS/BTU - REFERENCE DRAWINGS JOHN ZINC SKID

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Technical Recommendation for Tax Certification Approval

Date: November 23, 2011

To: Robb Layman

From: Edwin C. Bakowski 🧦

Subject: WRB Refining, LLC. TC-10-10-14R

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:

Continuous Emissions Monitoring System(CEMS) and Consent Decree Improvements for 4 existing flares attachment were installed to determine the volume of material being flared. This system reduces SOX, NOX, CO2 emissions to the air as the flares are subject to lower flaring limits to meet New Source Performance Standards. 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 S. 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.

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Exhibit B