

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

NOTICE

Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite. 11-500
Chicago, Illinois 60601

Michael Kemp
404 Phillips Building
Bartlesville, Oklahoma 74004

Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
Post Office Box 19033
Springfield, Illinois 62794

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE AND THE RECOMMENDATION** of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION
AGENCY

By: Vera Herst
Vera Herst
Assistant Counsel
Division of Legal Counsel

DATED: February 15, 2012

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

A P P E A R A N C E

The undersigned, as one of its attorneys, hereby enters an APPEARANCE on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Vera Herst
Vera Herst
Assistant Counsel
Division of Legal Counsel

DATED: February 15, 2012
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217)782-5544

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

RECOMMENDATION

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board, 35 Ill. Adm. Code 125.204.

1. On June 29, 2011, the Illinois EPA received a request from WRB Refining LLC (log number TC-06-11, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.

2. The applicant's address is: WRB Refining LLC
900 S. Central Ave
Roxanna, Illinois 62084

3. The proposed water pollution control facility in this request is located at Section 34 SW ¼, T5N, R9W, in Madison County, at the above street address and consist of the following:

Installation of a new sour water stripper.

These pollution control facilities have the primary purpose of eliminating, preventing, or reducing water pollution, and are further described in Exhibit A.

4. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2010), 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 or 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."

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5. Pollution control facilities are entitled to preferential tax treatment, 35 ILCS 200/11-5.

6. Based on the information in the application and the purpose of the facilities, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the

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requested tax certification.

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: Vera Herst
Vera Herst
Assistant Counsel
Division of Legal Counsel

Dated: February 15, 2012
Illinois Environmental Protection Agency
1021 North Grand Ave. E.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544

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*** * PCB 2012-110 * ***
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

DEPT. OF ENVIRONMENTAL PROTECTION

Memorandum

To: Connie Tonsor, Division of Legal Counsel

From: Alan Keller, Manager, Permit Section *AK*

Date: November 21, 2011

Re: WRB Refining LLC
Recommendation of Tax Certification
Log # TC-06-11
Property Identification # 19-1-08-34-00-000-006

The Bureau of Water received a request on June 29, 2011 from WRB Refining LLC for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Il. Adm. Code 125.204. We offer the following recommendation.

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

WRB Refining LLC
404 Phillips Building
Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

Installation of a new sour water stripper.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

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Log No. TC-06-11

If you have any questions regarding the above, please contact Jaime Rabins at 217/782-0610.

SAK:JAR:TC0611.docx

cc: Tax Cert File

Subject: WRB Refining LLC

Page 1 of 1

Data: TC-06-11

Reviewed By: Jaime Rabins

Date: July 12, 2011

Applicant: WRB Refining LLC
404 Phillips Building
Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

On June 29, 2011 the Agency received a request to make a recommendation regarding the tax certification for the following:

Installation of new sour water stripper to process the additional volume of sour water (water with high levels of hydrogen sulfide and ammonia) produced by the new Ultralow Sulfur Diesel Hydrotreaters, the Delayed Coker Naphtha Hydrotreater and the Delayed Coker. The device will convert the hydrogen sulfide to elemental sulfur which is sold as a low valued product and convert the ammonia to nitrogen gas which is released to the atmosphere.

The pollution control facility's primary purpose is to prevent and eliminate pollutants which if not treated might be harmful, detrimental or offensive to human, plant or animal life, or to property as defined in 35 IAC 125.200(a).

Action: Recommend for consideration of Pollution Control Facilities.

***** PCB 2012-110 *****

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 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				
File No.	Date Received	Certification No.	Date	
Sec. A APPLICANT	Company Name WRB Refining LLC			
	Person Authorized to Receive Certification Michael Kemp		Person to Contact for Additional Details Jay Rankin	
	Street Address 404 Phillips Building		Street Address 900 S. Central Ave., P.O. Box 76	
	Municipality, State & Zip Code Bartlesville, OK 74004		Municipality, State & Zip Code Roxana, IL 62084	
	Telephone Number (918) 661-9055		Telephone Number (618) 255-2737	
	Location of Facility Quarter Section 34 SW 1/4	Township 5 N	Range 9 W	Municipality Hartford
	Street Address 900 S. Central Ave.		County Madison	Township Wood River
	Property Identification Number		Parcel Number 19-1-08-34-00-000-006	Book Number
	Sec. B MANUFACTURING OPERATIONS	Nature of Operations Conducted at the Above Location Petroleum Refining		
Water Pollution Control Construction Permit No. 2007EB3690		Date Issued 08/16/07		
NPDES PERMIT No. IL0000205		Date issued 04/14/04	Expiration Date 04/14/09	
Air Pollution Control Construction Permit No. 06050052		Date issued 08/05/08		
Air Pollution Control Operating Permit No. 95120306		Date issued 11/07/03		
Sec. C MANUFACTURING PROCESS	Describe Unit Process See New Sour Water Stripper Project Attachment.			
	Materials Used in Process Sour water containing Hydrogen sulfide and ammonia, steam, cooling water.			
Sec. D POLLUTION CONTROL FACILITY DESCRIPTION	Describe Pollution Abatement Control Facility See New Sour Water Stripper Project Attachment.			

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)
POLLUTION CONTROL FACILITY
WRB - Wood River Refinery

Project: New Sour Water Stripper Project

Section C - Manufacturing Process

Process Description:

The various processes encountered in an oil refinery generate sour water streams containing high levels of Hydrogen Sulfide (H₂S) and Ammonia (NH₃). Hydrogen Sulfide (H₂S) and Ammonia (NH₃) are severe water pollutants and extremely low H₂S and NH₃ contents in the Refinery waste water discharge are mandated by the Refinery's NPDES permit. The Refinery sour water streams must be processed in a Sour Water Stripper prior to being routed to the Refinery Waste Water Treatment Plant. The purpose of the Sour Water Stripper is to recover H₂S and NH₃ so that these pollutants can be converted to non hazardous products.

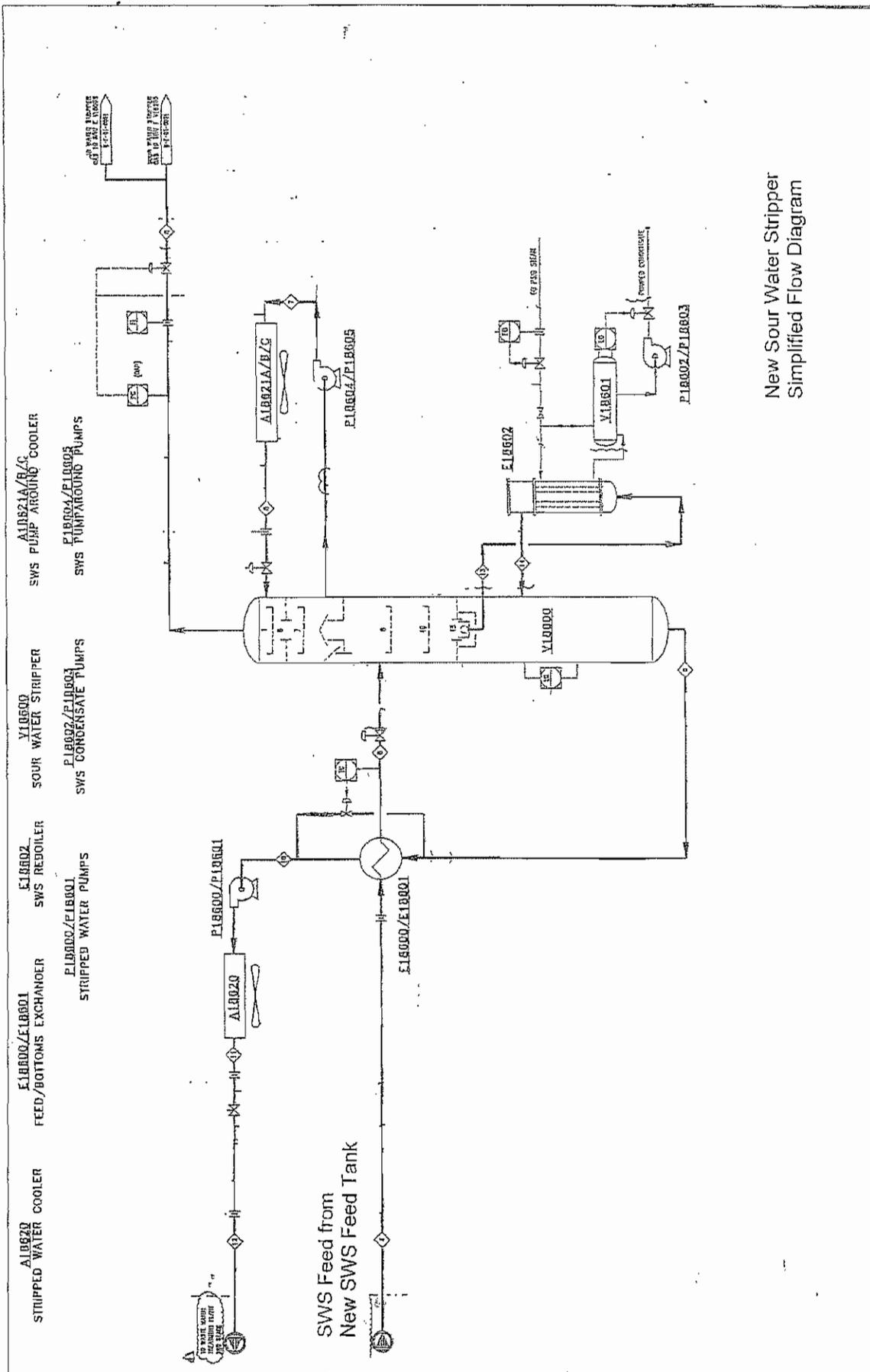
The New Sour Water Stripper was constructed to process the additional volume of sour water produced by new Refinery units including the Ultralow Sulfur Diesel Hydrotreaters, the Delayed Coker Naphtha Hydrotreater, and the Delayed Coker. The sour water streams from the various refinery processes are collected and pumped to the new Sour Water Stripper. The feed sour water is preheated and routed to a fractionation column which is equipped with the necessary reboilers, coolers, and pumps. This column has two product streams: a high H₂S and NH₃ tops stream which is routed to the Sulfur Recovery Units and a bottoms stream which is very low in H₂S and NH₃. The Sulfur Recovery Units convert the H₂S present in the tops stream to elemental sulfur which the Refinery sells as a low valued product and convert the NH₃ present in the tops stream to nitrogen gas (N₂) which can be release to the atmosphere. The Sour Water Stripper bottoms stream is sufficiently low in H₂S and NH₃ for routing to the Refinery Waste Water Treatment Plant. The Refinery Waste Water Treatment Plant further reduces the H₂S and NH₃ in order to meet the Refinery's NPDES permit.

A new sour water storage tank was constructed with the new Sour Water Stripper so that sour water can be stored for later processing when the Sour Water Stripper is undergoing maintenance.

Section D - Pollution Control Facility Description

The Refinery sour water streams must be processed in a Sour Water Stripper prior to being routed to the Refinery Waste Water Treatment Plant (WWTP). Without this pretreatment step, the H₂S and NH₃ content of the WWTP feed water would far exceed WWTP capabilities and the H₂S and NH₃ content of the refinery's water effluent to the Mississippi River would greatly increase, resulting in water pollution.

The New Sour Water Stripper was installed for the sole purpose of reducing the H₂S and NH₃ content of refinery water streams so H₂S and NH₃ pollutants are not discharged to the Mississippi River. The New Sour Water Stripper is required for the refinery waste water discharge to meet the H₂S and NH₃ levels mandated by the refinery's NPDES permit.



New Sour Water Stripper
Simplified Flow Diagram

