BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC
(Property Indentification Number
19-1-08-35-00-00-001)
) PCB 014(Tax Certification)

NOTICE

Michael Kemp

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

n Control Board 404 Phillips Building
pson Center Bartlesville, Oklahoma 74004
plph Street, Suite. 11-500
ps 60601

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 <u>APPEARANCE AND THE RECOMMENDATION</u> of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION `AGENCY

Vera Herst

Assistant Counsel

Division of Legal Counsel

DATED: March 19, 2014

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

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Indentification Number) PCB 014-
19-1-08-35-00-00-001)) (Tax Certification)
)

APPEARANCE

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

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Voga Hanat

Assistant Counsel

Division of Legal Counsel

DATED: March 19, 2014 Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (217)782-5544

Electronic Filing - Received, Clerk's Office	: 03/19/2014 - 3	* * * PCB 2014-116 * * *
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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Indentification Number) PCB 014-
19-1-08-35-00-00-001)) (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.

- On November 14, 2011, the Illinois EPA received a request from WRB Refining LLC (log number TC-10-11, 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 facilities in this request are located at Section 35 NE/NW/SE/SW, T5N, R9W in Madison County, at the above street address and consist of the following:

Maintenance, upgrades or replacement of existing product tanks, including improvements to tank level instrumentation, installation of cathodic protection equipment, and replacement of tank floors, internal and external coatings, gaskets, isolation valves and piping.

These facilities 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."

- 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 are not "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. Specifically, the Illinois EPA finds that the primary purpose of the improvements to the product tanks is for product storage, not eliminating, preventing, or reducing water pollution.

WHEREFORE, the Illinois EPA recommends that the Board deny the

requested tax certification. The applicant has 35 days after the date of service to file a petition with the Board to contest the Illinois EPA's recommendation (35 Ill. Adm. Code 125.204).

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Vera Herst

Assistant Counsel

Division of Legal Counsel

Dated: March 19, 2014

Illinois Environmental Protection Agency

1021 North Grand Ave. E.

P.O. Box 19276

Springfield, Illinois 62794-9276

217/782-5544

Electronic Filing - Received, Clerk's Office : 03	3/19/2014 - * * * PCB 2014-116 * * *
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STATE OF ILLINOIS)
COUNTY OF SANGAMON)

PROOF OF SERVICE

I, the undersigned attorney at law, hereby certify that on March 19, 2014, I served true and correct copies of an **APPEARANCE AND THE RECOMMENDATION**, upon the persons and by the methods as follows:

[1st Class U.S. Mail]

Steve Santarelli Illinois Department of Revenue 101 West Jefferson Post Office Box 19033 Springfield, Illinois 62794 [1st Class U.S. Mail] Michael Kemp 404 Phillips Building Bartlesville, Oklahoma 74004

[Electronic Filing]

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

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Vera Herst Assistant Counsel Division of Legal Counsel 1021 North Grand Avenue East P.O. Box 19276-Springfield, Illinois 62794-9276 217.782.5544 217.782.9143 (TDD)



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-3397

PAT QUINN, GOVERNOR

JOHN J. KIM, INTERIM DIRECTOR

Memorandum

To: Connie Tonsor, Division of Legal Counsel

From: Alan Keller, Manager, Permit Section

Date: November 21, 2011

Re: WRB Refining LLC - Denial

Recommendation of Tax Certification

Log # TC-10-11

Property Identification # 19-1-08-35-00-000-001

The Bureau of Water received a request on November 14, 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.

Maintenance, upgrades or replacement of existing product tanks including improvements to tank level instrumentation, installation of cathodic protection equipment, and replacement of; tank floors, internal and external coatings, gaskets, isolation valves and piping.

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 are not 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 primary purpose of the

Page 2 Log No. TC-10-11

product tanks are for product storage not eliminating, preventing, or reducing water pollution.

The Bureau of Water therefore recommends that the Board deny the requested tax certification for these facilities.

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

SAK:JAR:TC1011.docx

cc: Tax Cert File

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

Subject: WRB Refining LLC

Data: TC-10-11

Reviewed By: Jaime Rabins Date: November 15, 2011

Page 1 of 1

Applicant:

WRB Refining LLC 404 Phillips Building Bartlesville, OK 74004

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

On November 14, 2011 the Agency received letter requesting that the June 29, 2011 tax cert be replaced with a new request for the following:

Maintenance, upgrades or replacement of existing product tanks including improvements to tank level instrumentation, installation of cathodic protection equipment, and replacement of tank floors, internal and external coatings, gaskets, isolation valves and piping.

The above project does not meet the definition of Pollution Control Facilities as defined in 35 IAC 125.200(a) because the primary purpose of the product tanks are for product storage not eliminating, preventing, or reducing water pollution.

Action: Recommend for denial of Pollution Control Facilities.

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.

	F. O. Box 19210, Opinigheid, in 0219-			application for	certification.
	FOR AGENCY USE				
File No.	Date Received (Certification No.		D	ate
Sec. A	Company Name				
	WRB Refining LLC				
	Person Authorized to Receive Certification		Person to Cor	itact for Addit	tional Details
	Michael Kemp		Jay Rankin Street Address		·
	Street Address 404 Phillips Building		900 S. Centra		Box 76
_	Municipality, State & Zip Code		Municipality, S		
APPLICANT	Bartlesville, OK 74004		Roxana, IL 62		
P.E.	Telephone Number	*	Telephone Nu		
Α <mark>Ρ</mark>	(918) 661-9055		(618) 255-27		
	Location of Facility Quarter Section Township F	lange	Municipality	. 1	ownship
		9 W	Roxana	Woo	d River
	Street Address		County	В	Book Number
	900 S. Central Ave.		Madison		
	Property Identification Number		Parcel Number		
			19-1-08-35-0	0-000-001	,
Sec. B	Nature of Operations Conducted at the Above L	ocation			
	Petroleum Refining				
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MANUFACTURING OPERATIONS	Water Pollution Control Construction Permit No		Date Issued		
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PER	NPDES PERMIT No.		Date Issued		Expiration Date
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	Air Pollution Control Construction Permit No.		Date Issued		
			Data lassad		
	Air Pollution Control Operating Permit No. 95120306		Date Issued 11/07/03		
Sec. C	Describe Unit Process		11/01/03		
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Sec. D	Describe Pollution Abatement Control Facility				
. T. Z	See Storage Tank Upgrades to Prevent Spil	ls to Ground	and Water Att	achment	
POLLUTION CONTROL FACILITY DESCRIPTION	The state of the s				
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APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY AIR WATER 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.

	FOR AGENCY USE				
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File No.	Date Received Ce	ertification No.		Da	ate
Sec. A	Company Name				
	WRB Refining LLC				
	Person Authorized to Receive Certification		Person to Cor	ntact for Additi	ional Details
	Michael Kemp		Jay Rankin		
	Street Address		Street Address		
	586 Phillips Building		900 S. Centra		
5	Municipality, State & Zip Code		Municipality, S		ode
CAI	Bartlesville, OK 74004		Roxana, IL 6		
APPLICANT	Telephone Number		Telephone Nu		
Ϋ́	(918) 661-9055		(618) 255-27		
	Location of Facility Quarter Section Township Re	ange	Municipality	ı	ownship
	Quarter Section Township IV	ange			
	Street Address		County	В	look Number
	900 S. Central Ave.		Madison		
	Property Identification Number		Parcel Number	er	
			19-1-08-35-0	0-000-001	
Sec. B	Nature of Operations Conducted at the Above Lo	ocation		24	
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	Petrolident Renning				
S					
20 20	Water Pollution Control Construction Permit No.		Date issued		
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MANUFACTURING OPERATIONS	NPDES PERMIT No.		Date Issued		Expiration Date
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	Air Pollution Control Construction Permit No.		Date Issued		
	A Substitution of the subs		Data lassuad		
	Air Pollution Control Operating Permit No. 95120306		Date Issued 11/07/03		
Sec. C	Describe Unit Process		11/01/03		
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	See Storage Tank Upgrades to Prevent Spil	is to Ground	and Water At	tachment	
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Sec. D	Describe Pollution Abatement Control Facility				
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POLLUTION CONTROL FACILITY DESCRIPTION					
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Sec. E	(1) Nati	ure of Contaminants or Pollutants	S				
				Material Retai	ned Canti	red or Recover	-ha
IIS	Contar	ninant or Pollutant		DESCRIPTION		ISPOSAL OR	
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AMI		e in surface/ground water		Benzene	Sold as pr		
NC		in surface/ground water		Caustic		d as Feed Stock	
∑ - 2		Acit in surface/ground water		Sulfuric Acid		as Feed Stock	
		Vater in surface/ground water		Waste Water		Waste Water F	
FAC		nt(s) of Waste Water Discharge			7700100 11		
3OL	h	sippi River pre NPDES Permit					
I N			F	Plans and Specifications	Attached	Yes 🗆	No ⊠
20.	(3) A	re contaminants (or residues) co	llected by	the control facility?		Yes 🗌	No ⊠
10 10	(4) D	ate installation completed 11/15	5/10	_status of installation or	date of a	oplication	
POLLUTION CONTROL FACILITY – DATA CONTAMINANTS	(5) a	TOTAL INSTALLED COST	Γ	*		\$ 150,281,300	0.00
POLLU ACCOUNTING DATA	b	. NET SALVAGE VALUE IF CONS	SIDERED R	REAL PROPERTY:		\$ 0.00	
ILN	С	. PRODUCTIVE GROSS ANNUAL	LINCOME	OF CONTROL FACILITY:		\$ 0.00	
1000	d	. PRODUCTIVE NET ANNUAL IN	COME OF	CONTROL FACILITY:		\$ 0.00	
	е					% To Be Deter	rmined
SIGNATURE 99	knowled	owing information is submitted in acc ge, is true and correct. The facilities property Tax Code	s claimed h				
SIC	Signatu	ire	Title		-		
Sec. G	Oignate			COMPILING AND FILING APP	LICATION		
	General: water op	Separate applications must be complet erations are related, file two applications.	ted for each . If attachme	control facility claimed. Do no ents are needed, record them of	ot mix types (consecutively	water and air). Wh on an index sheet.	ere both air and
	Sec. A	Information refers to applicant as lister facilities. Define facility location by stroutside of municipal boundaries. The	eet address	or legal description. A plat ma			
	Sec. B	Self-explanatory. Submit copies of all	permits issu	ued by local pollution control ag	encies. (e.g.	MSD Construction	Permit)
	Sec. C	Refers to manufacturing processes or	materials or	n which pollution control facility	is used.		
	Sec. D	Narrative description of the pollution of State the type of control facility. State flow diagram describing the pollution of fair cash value for real property. Inclucion collection efficiency.	permit num control facility	ber, date, and agency issuing p <u>v</u> . Include a listing of each maj	permit. A nar or piece of ec	rative description a juipment included in	nd a process n the claimed
INSTRUCTIONS	Sec. E	List air contaminants, or water pollutio disposal of any contaminants removed Item (1) – Refers to pollutants and contem (2) – Refers to water pollution but which clearly show (a) Point(s) of disc facility. Item (3) – If the collected contaminant in dollars reclaimed by sale or reuse of Item (4) – State the date which the pollutem (5) – This information is essential activate project review prior to certificate.	d from the mantaminants re it can apply to tharge to reco ts are dispose of the collected to the certif	anufacturing processes. emoved from the process by the owater-carried wastes from aireiving stream, and (b) Sewers and of other than as wastes, stated substances. State the cost of facility was first placed in serfication and assessment action	ne pollution con r pollution con and process and process of reclamation vice and oper	ontrol facility. Introl facilities. Subrepiping to and from to ition of the material and related experented. If not, explain	mit drawings, he control s, and the value ise.
	Sec. F	Self-explanatory. Signature must be a	a corporate a	authorized signature.			
		Submit to:	Attention:		Attention:		
		Illinois EPA P.O. Box 19276 Springfield, IL 62794-9276	Al Keller Permit Sec Division of	ction Water Pollution Control	Donald E. S Permit Secti Division of A		

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

Project: Storage Tank Upgrades to Prevent Spills to Ground and Water

Section C - Manufacturing Process

Process Description:

The Wood River Refinery has over 250 storage tanks to hold crude oil, finished products, intermediate products, chemicals, and various water streams. These storage tanks are typically large cylinders constructed with steel walls, steel floors, and steel roofs. Some storage tanks are extremely large, capable of holding over 8,400,000 gallons of liquid.

Beginning in 2000, Wood River Refinery personnel began a rigorous review of the physical condition of these tanks. This review was prompted due to concerns that deteriorated tanks could result in significant leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. The results of this review led to a capital program to correct the identified tank deficiencies and thus to significantly reduce the potential for leaks of hydrocarbon or waste water to the ground.

A process flow sketch of typical storage tank is provided.

Materials Used in Process:

Hydrocarbons
Crude Oil
Intermediate refinery streams
Waste Water containing sulfides and ammonia

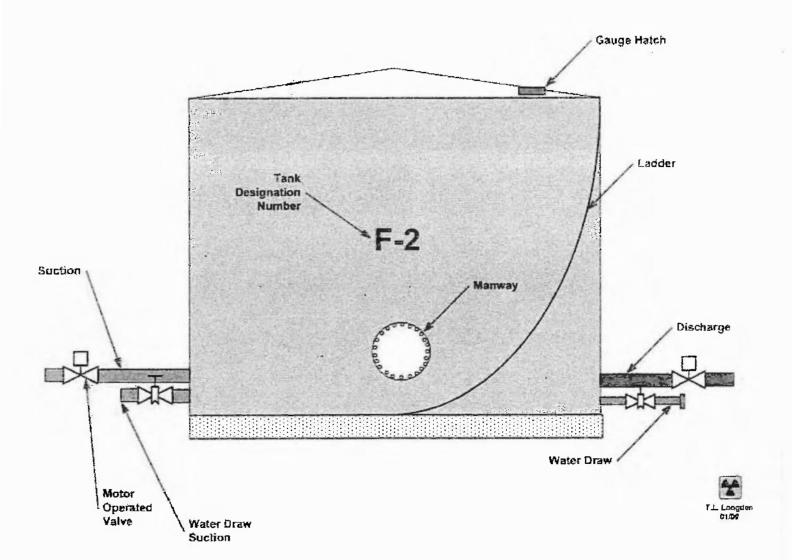
Section D - Pollution Control Facility Description

The primary purpose of The Storage Tank Upgrades to Prevent Spills to Ground and Water Project is to prevent leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. Such leaks would reach both surface water streams and ground water, resulting in water pollution. Thus, this project installed pollution control facilities to prevent surface water and ground water pollution.

Beginning in 2000, Wood River Refinery personnel discovered that several tanks which were adequately functional for continued service required modifications to prevent water pollution. A capital program was approved to upgrade storage tanks to abate water pollution. This capital program included rebuilding some tanks to meet current standards to reduce hydrocarbon emissions. For these rebuilt tanks, only the costs of the hydrocarbon emission control items are included in Section E, Line 5 above. Tank upgrades included replacement of the existing tank floors with new long life floors, modification of tank water draw systems to reduce hydrocarbon entrainment in the water to the process sewer, improvements to tank level instrumentation to reduce the potential for tank overfills, installation of cathodic protection to reduce corrosion potential, upgrade or replacement of external and/or internal coatings to reduce corrosion potential, replacement of flange gaskets and bolts to reduce potential for flange leaks, replacement of tank isolation valves to ensure tank inventory can be contained should an external pipe leak, replacement of threaded piping and tank connections with welded connections and improvements to the tank yard drainage to eliminate standing water contacting tank which leads to accelerated tank corrosion.

In summary, the improvements completed by the Storage Tank Upgrades to Prevent Spills to Ground and Water Project primarily reduced the potential for leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. Such leaks have the potential to reach both surface water streams and ground water, resulting in water pollution.

Atmospheric Tank Kerosene/Jet Fuel/Fuel Oil/Asphalt





November 3, 2011

TO:

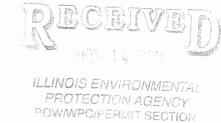
Al Keller

FROM:

Ken Kerntke

RE:

Water Pollution Control Facility Application



The Wood River Refinery filed a Water Pollution Control Facility certification application, Storage Tank Upgrades to Prevent Emissions to Ground and Water, under a cover letter dated October 11, 2010. We are hereby withdrawing that application and replacing it with the attached application. Changes were made in the "Describe Pollution Abatement Control Facility" to more accurately reflect that the costs set out in the application were incurred to install pollution control abatement facilities and not to install tanks themselves. This application refers to a Refinery project (vs a CORE project).

As shown in the application, Jay Rankin (618 255-2737) is the Refinery contact for any questions or clarification that might be needed.

Should you have any concerns that can not be resolved with Jay, please call Michael Kemp (918 661-9055) with our property tax department.

Thank you for your attention to these applications.

Electronic Filing - Received, Clerk's Office : 03/19/2014 - * * * PCB 2014-116, * * * * PCB 2014-116, * * *

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.

			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 A	dditional Details
	Michael Kemp		Jay Rankin	
	Street Address		Street Address 900 S. Central Ave., F	0 Pay 76
	404 Phillips Building Municipality, State & Zip Code		Municipality, State & Zip	
Ā	Bartlesville, OK 74004		Roxana, IL 62084	Code
APPLICANT	Telephone Number		Telephone Number	
φРР	(918) 661-9055		(618) 255-2737	
	Location of Facility		Municipality	Township
	Quarter Section Township	Range		
	Street Address		County	Book Number
	900 S. Central Ave.		Madison	
	Property Identification Number		Parcel Number	4
			19-1-08-35-00-000-00	71
Sec. B	Nature of Operations Conducted at the Above	e Location		
	Petroleum Refining			
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O				
MANUFACTURING OPERATIONS	Water Pollution Control Construction Permit	No.	Date Issued	
OTV	Water Foliation Control Constitution Fermit	NO.	Date 155ded	
JF A ER	NPDES PERMIT No.		Date Issued	Expiration Date
ANI OP	IL0000205		04/14/04	04/14/09
2	Air Pollution Control Construction Permit No.		Date Issued	
	Air Pollution Control Operating Permit No.		Date Issued	
	95120306		11/07/03	
Sec. C	Describe Unit Process			
	See Storage Tank Upgrades to Prevent S	Spills to Ground	and Water Attachmen	t
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Sec. D	Describe Pollution Abatement Control Facility			
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POLLUTION CONTROL FACILITY DESCRIPTION				
SCS				
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Sec. E	(1) Na	ture of Contaminants or Pollutants				
_			Material Reta	ined. Capti	ured or Recove	red
ű	Contar	ninant or Pollutant	DESCRIPTION		DISPOSAL OR	Martin
¥	Crude (Oil in surface/ground water	Crude OII	Processed	d as Feed Stock	<
Ž.	Benzer	e in surface/ground water	Benzene	Sold as pr	oduct	
ı Ö	Caustic	in surface/ground water	Caustic	Processe	d as Feed Stock	k
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ij	Waste '	Water in surface/ground water	Waste Water	Treated in	Waste Water I	Plant
Ē		nt(s) of Waste Water Discharge				
<u>S</u>	Missis	sippi River per NPDES Permit				
INC			Plans and Specifications	Attached	Yes 🗆	No ⊠
ŏ z	(3)	Are contaminants (or residues) coll			Yes □	No ⊠
101	(4)	Date installation completed 11/15/	10 status of installation or	date of a	pplication 100	%
ILLU.	(5) 8	TOTAL INSTALLED COST			\$ 150,281,30	
G D/	1	. NET SALVAGE VALUE IF CONSI	DERED REAL PROPERTY:		\$ 0.00	
NE NE		: PRODUCTIVE GROSS ANNUAL	INCOME OF CONTROL FACILITY:		\$ 0.00	
SE POLLUTION CONTROL FACILITY → ACCOUNTING DATA CONTAMINANTS		I. PRODUCTIVE NET ANNUAL INC	OME OF CONTROL FACILITY:		\$ 0.00	
AC			ITY BEARS TO WHOLE FACILITY	/ΔΙ.ΙΙΕ·		
Sec. F		owing information is submitted in acco			% To Be Dete	rmined
SIGNATURE	knowled	dge, is true and correct. The facilities of Property Tax Code.				
ATU	1/	081	•			
2 8	K	en C. Yuy	DIRECTOR- PTRRC	•		
55	Signat	ure	Title			
	1					
Sec. G		INSTRUCTIO	ONS FOR COMPILING AND FILING APP	LICATION		
Sec. G		Separate applications must be complete	d for each control facility claimed. Do no	ot mix types (nere both air and
Sec. G	water op	Separate applications must be complete erations are related, file two applications.	d for each control facility claimed. Do no if attachments are needed, record them of	ot mix types (consecutively	on an index sheet.	
Sec. G		Separate applications must be complete erations are related, file two applications. Information refers to applicant as listed facilities. Define facility location by street	d for each control facility claimed. Do no	ot mix types (consecutively ontacted for fu	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: Storage Tank Upgrades to Prevent Spills to Ground and Water

Section C - Manufacturing Process

Process Description:

The Wood River Refinery has over 250 storage tanks to hold crude oil, finished products, intermediate products, chemicals, and various water streams. These storage tanks are typically large cylinders constructed with steel walls, steel floors, and steel roofs. Some storage tanks are extremely large, capable of holding over 8,400,000 gallons of liquid.

Beginning in 2000, Wood River Refinery personnel began a rigorous review of the physical condition of these tanks. This review was prompted due to concerns that deteriorated tanks could result in significant leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. The results of this review led to a capital program to correct the identified tank deficiencies and thus to significantly reduce the potential for leaks of hydrocarbon or waste water to the ground.

A process flow sketch of typical storage tank is provided.

Materials Used in Process:

Hydrocarbons Crude Oil Intermediate refinery streams Waste Water containing sulfides and ammonia

Section D - Pollution Control Facility Description

The primary purpose of The Storage Tank Upgrades to Prevent Spills to Ground and Water Project is to prevent leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. Such leaks would reach both surface water streams and ground water, resulting in water pollution. Thus, this project installed pollution control facilities to prevent surface water and ground water pollution.

Beginning in 2000, Wood River Refinery personnel discovered that several tanks which were adequately functional for continued service required modifications to prevent water pollution. A capital program to abate water pollution due to storage tanks was initiated. This capital program included replacement of some tanks with new tanks built to current standards. Other tanks were temporarily removed from service, inspected, and upgraded to reduce the potential for leaks. Tank upgrades include replacement of the existing tank floor with a new long life floor, modification of tank water draw system to reduce hydrocarbon entrainment in the water to the process sewer, improvements to tank level instrumentation to reduce the potential for tank overfills, installation of cathodic protection to reduce corrosion potential, upgrade or replacement of external and/or internal coatings to reduce corrosion potential, replacement of flange gaskets and bolts to reduce potential for flange leaks, replacement of tank isolation valves to ensure tank inventory can be contained should an external pipe leak, replacement of threaded piping and tank connections with welded connections, and improvements to the tank yard drainage to eliminate standing water contacting tank which leads to accelerated tank corrosion.

In summary, the improvements completed by the Storage Tank Upgrades to Prevent Spills to Ground and Water Project primarily reduce the potential for leaks of hydrocarbon, waste water, or chemicals such as benzene, caustic, and sulfuric acid to the ground. Such leaks have the potential to reach both surface water streams and ground water, resulting in water pollution.

<u>Atmospheric Tank</u> Kerosene/Jet Fuel/Fuel Oil/Asphalt

