

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
APPLICATION FOR USE DETERMINATION
FOR POLLUTION CONTROL PROPERTY**

The TCEQ has the responsibility to determine whether a property is a pollution control property. A person seeking a use determination for pollution control property must complete the attached application or use a copy or similar reproduction. For assistance in completing this form refer to the TCEQ guidelines document, *Property Tax Exemptions for Pollution Control Property*, as well as 30 TAC §17, rules governing this program. For additional assistance please contact the Tax Relief for Pollution Control Property Program at (512) 239-3100. The application should be completed and mailed, along with a complete copy and appropriate fee, to: TCEQ MC-214, Cashiers Office, P.O. Box 13088, Austin, Texas 78711-3088.

1. GENERAL INFORMATION

A. What is the type of ownership of this facility?

- | | |
|---|--|
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Sole Proprietor |
| <input type="checkbox"/> Partnership | <input type="checkbox"/> Utility |
| <input checked="" type="checkbox"/> Limited Partnership | <input type="checkbox"/> Other |

B. Size of company: Number of Employees

- | | |
|---|---|
| <input checked="" type="checkbox"/> 1 to 99 | <input type="checkbox"/> 1,000 to 1,999 |
| <input type="checkbox"/> 100 to 499 | <input type="checkbox"/> 2,000 to 4,999 |
| <input type="checkbox"/> 500 to 999 | <input type="checkbox"/> 5,000 or more |

C. Business Description: **Electricity Manufacturing (SIC 4911)**

2. TYPE OF APPLICATION

- | | |
|--|---|
| <input type="checkbox"/> Tier I \$150 Application Fee | <input type="checkbox"/> Tier III \$2,500 Application Fee |
| <input type="checkbox"/> Tier II \$1,000 Application Fee | <input checked="" type="checkbox"/> Tier IV \$500 Application Fee |

NOTE: Enclose a check, money order to the TCEQ, or a copy of the ePay receipt along with the application to cover the required fee.

3. NAME OF APPLICANT

A. Company Name: Navasota Wharton Energy Partners LP

B. Mailing Address (Street or P.O. Box): 403 Corporate Woods

C. City, State, ZIP: Magnolia, TX 77354

4. PHYSICAL LOCATION OF PROPERTY REQUESTING A TAX EXEMPTION

A. Name of facility: Colorado Bend

B. Type of Mfg Process or Service: Electricity Manufacturing (SIC 4911)

C. Street Address: 3821 S. State Hwy 60

D. City, State, ZIP: Wharton, TX 77488

E. Tracking Number Assigned by Applicant: DPCOBend B

F. Customer Number or Regulated Entity Number: N/A

5. APPRAISAL DISTRICT WITH TAXING AUTHORITY OVER PROPERTY

A. Name of Appraisal District: Wharton

B. Appraisal District Account Number: 10258-000-000-00; 10-20500000-0200-67099; 20063-000-055-00

Replacement
~~07-12209~~

07-11926

6. CONTACT NAME (must be provided)

A. Company/Organization Name: Duff and Phelps LLC
 B. Name of Individual to Contact: Greg Maxim
 C. Mailing Address: 919 Congress Ave. Suite 1450
 D. City, State, ZIP: Austin, TX 78701
 E. Telephone number and fax number: (512) 671-5580 Fax (512) 671-5501
 F. E-Mail address (if available): gregory.maxim@duffandphelps.com

7. RELEVANT RULE, REGULATION, OR STATUTORY PROVISION

Please reference Section 8. Each item is detailed with the proper statute, regulation, or environmental regulatory provision.

8. DESCRIPTION OF PROPERTY

Background

The Colorado Bend Energy Center (the "Facility"), owned by Navasota Wharton Energy Partners LP, is a combined cycle natural-gas fired power plant located in Wharton, Wharton County, Texas. The Facility is intended to have a total capacity of 825 Mw, built in three phases. Phase 1 has a capacity of 275 Mw and was completed in June of 2007. Phase 2, currently under construction, is to be completed in June of 2008 and will also have a 275 Mw capacity. Each phase consists of 2 GE 7-EA combustion turbine units utilizing the GE Dry Low NOx combustion control system technology, 2 heat recovery steam generating (HRSG) units, and one steam turbine unit. The Facility utilizes a cooling tower within the circulating water system for condenser cooling water needs and condensate return purposes.

Overview of Combined Cycle Technology

The Facility consists of a combined-cycle gas turbine power plant with gas Combustion Turbines ("CTs") equipped with heat recovery steam generators to capture heat from the gas turbine exhaust. Steam produced in the heat recovery steam generators powers a steam turbine generator(s) to produce additional electric power. Use of the otherwise wasted heat in the turbine exhaust gas results in higher plant thermal efficiency compared to other combustion technologies. Combined-cycle plants currently entering service can convert approximately 50% of the chemical energy of natural gas into electricity (HHV basis).

The Rankine cycle is a thermodynamic cycle that converts heat from an external source into work. In a Rankine cycle, external heat from an outside source is provided to a fluid in a closed-loop system. This fluid, once pressurized, converts the heat into work output using a turbine. The fluid most often used in a Rankine cycle is water (steam) due to its favorable properties, such as nontoxic and unreactive chemistry, abundance, and low cost, as well as its thermodynamic properties. The thermal efficiency of a Rankine cycle is usually limited by the working fluid. Without pressure reaching super critical the temperature range the

Rankine cycle can operate over is quite small, turbine entry temperatures are typically 565°C (the creep limit of stainless steel) and condenser temperatures are around 30°C. This gives a theoretical Carnot efficiency of around 63% compared with an actual efficiency of 42% for a modern coal-fired power station. This low turbine entry temperature (compared with a gas turbine) is why the Rankine cycle is often used as a bottoming cycle in combined cycle gas turbine power stations.

The Brayton cycle is a constant pressure thermodynamic cycle that converts heat from combustion into work. A Brayton engine, as it applies to a gas turbine system, will consist of a fuel or gas compressor, combustion chamber, and an expansion turbine. Air is drawn into the compressor, mixed with the fuel, and ignited. The resulting work output is captured through a pump, cylinder, or turbine. A Brayton engine forms half of a combined cycle system, which combines with a Rankine engine to further increase overall efficiency. Cogeneration systems typically make use of the waste heat from Brayton engines, typically for hot water production or space heating.

By combining both gas and steam cycles, high input temperatures and low output temperatures can be achieved. The efficiency of the cycles are additive, because they are powered by the same fuel source. A combined-cycle plant has a thermodynamic cycle that operates between the gas turbine's high firing temperature and the waste heat temperature from the condensers of the steam cycle. This large range means that the Carnot efficiency of the cycle is high. The actual efficiency, while lower than this is still higher than that of either plant on its own. The thermal efficiency of a combined-cycle power plant is the net power output of the plant divided by the heating value of the fuel. If the plant produces only electricity, efficiencies of up to 59% can be achieved.

A single-train combined-cycle plant consists of one gas turbine generator, a heat recovery steam generator (HRSG) and a steam turbine generator ("1 x 1" configuration). As an example, an "FA-class" combustion turbine, the most common technology in use for large combined-cycle plants within the state of Texas and other locations throughout the United States, represents a plant with approximately 270 megawatts of capacity.

See Figure 1 – Standard Combined-Cycle Configuration, below.

It is common to find combined-cycle plants using two or even three gas turbine generators and heat recovery steam generators feeding a single, proportionally larger steam turbine generator. Larger plant sizes result in economies of scale for construction and operation, and designs using multiple combustion turbines provide improved part-load efficiency. A 2 x 1 configuration using FA-class technology will produce about 540 megawatts of capacity at International Organization for Standardization ("ISO") conditions. ISO references ambient conditions at 14.7 psia, 59 F, and 60% relative humidity.

Because of high thermal efficiency, high reliability, and low air emissions,

combined-cycle gas turbines have been the new resource of choice for bulk power generation for well over a decade. Other attractive features include significant operational flexibility, the availability of relatively inexpensive power augmentation for peak period operation and relatively low carbon dioxide production.

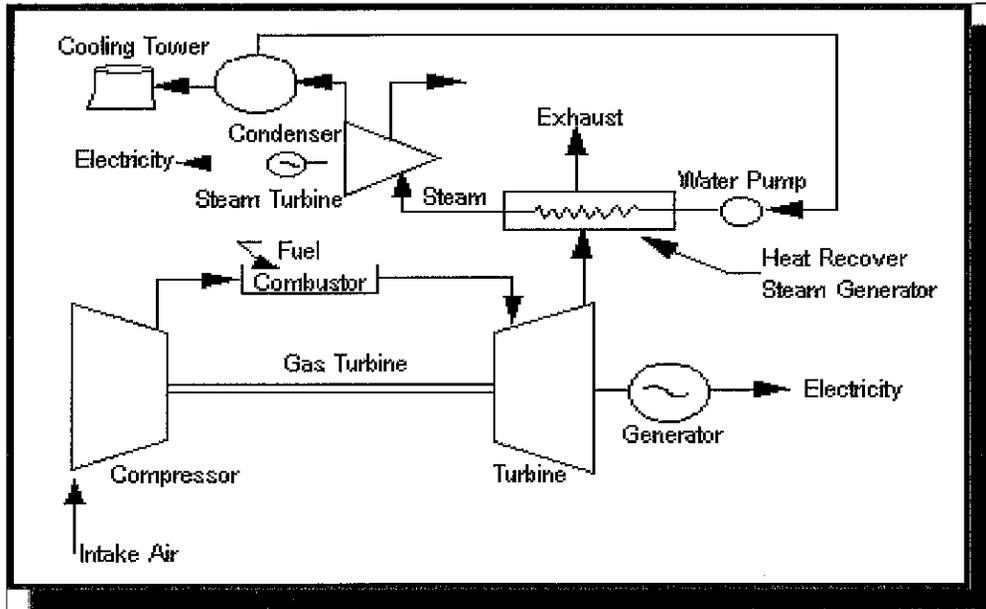


FIGURE 1 - Standard Combined-Cycle Configuration (1)

As an example, consider a gas turbine cycle that has an efficiency of 40%, which is a representative value for current Brayton Cycle gas turbines, and the Rankine Cycle has an efficiency of 30%. The combined-cycle efficiency would be 58%, which is a very large increase over either of the two simple cycles. Some representative efficiencies and power outputs for different cycles are shown in Figure 2 – Comparison of Efficiency and Power Output of Various Power Products, below.

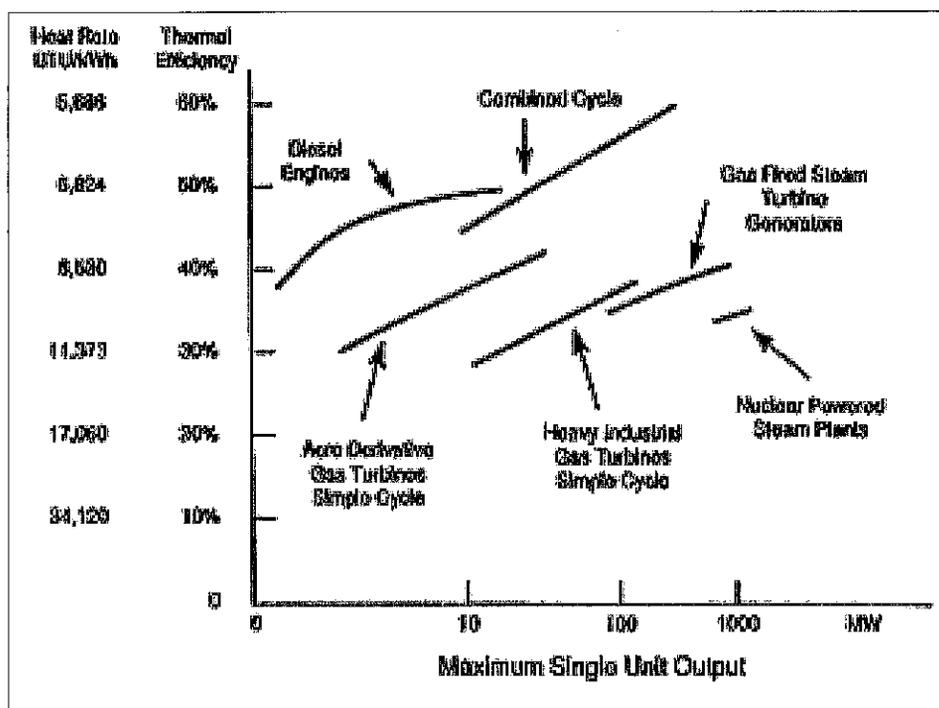


FIGURE 2 - Comparison of efficiency and power output of various power products [Bartol (1997)] (2)

Current Regulatory Authority for Output-Based Emissions

Innovative power technologies such as combined-cycle technology offer enormous potential to improve efficiency and enhance the environmental footprint of power generation through the reduction and/or prevention of air emissions to the environment. Currently, two thirds of the fuel burned to generate electricity in traditional fossil-fired steam boilers is lost. Traditional U.S. power generation facility efficiencies have not increased since the 1950s and more than one fifth of the U.S. power plants are more than 50 years old. In addition, these facilities are the leading contributors to U.S. emissions of carbon dioxide, NO_x, sulfur dioxide ("SO₂"), and other contaminants into the air and water.

The ability to recognize and regulate the efficiency benefits of pollution reduction and/or prevention through the use of combined-cycle technology is achieved through the use of Output-Based emissions standards, incorporated since September 1998 within the U.S. EPA's new source performance standards ("NSPS") for NO_x, from both new utility boilers and new industrial boilers. Pursuant to section 407(c) of the Clean Air Act in subpart Da (Electric Utility Steam Generating Units) and subpart Db (Industrial-Commercial-Institutional Steam Generating Units) of 40 CFR part 60, the U.S. EPA revised the NO_x emissions limits for steam generating units for which construction, modification, or reconstruction commenced after July 9, 1997 (3). Output-Based regulations are also exemplified by those used in the U.S. EPA's NO_x Cap and Trade Program for the NO_x State Implementation Plan ("SIP") Call

of 1998, which uses units of measure such as lb/MWh generated or lb concentration ("ppm"), which relate to the emissions to the productive output – electrical generation of the process.(4)

The use of innovative technologies such as combined-cycle units reduces fossil fuel use and leads to multi-media reductions in the environmental impacts of the production, processing transportation, and combustion of fossil fuels. In addition, reducing fossil fuel combustion is a pollution prevention measure that reduces emissions of all products of combustion, not just the target pollutant (currently NOx) of a federal regulatory program.

Authority to Expand Pollution Control Equipment & Categories in Texas

Under Texas House Bill 3732 ("HB3732") enacted in 2007, Section 11.31 of the Texas Tax Code is amended to add certain plant equipment and systems to the current list of air, water, or land pollution control devices exempt from property taxation in Texas.

Specifically, the language reads as follows:

SECTION 4. Section 11.31, Tax Code, is amended by adding Subsections (k), (l), and (m) to read as follows:

(k) The Texas Commission on Environmental Quality shall adopt rules establishing a nonexclusive list of facilities, devices, or methods for the control of air, water, or land pollution, which must include:

- (1) coal cleaning or refining facilities;*
- (2) atmospheric or pressurized and bubbling or circulating fluidized bed combustion systems and gasification fluidized bed combustion combined-cycle systems;*
- (3) ultra-supercritical pulverized coal boilers;*
- (4) flue gas recirculation components;*
- (5) syngas purification systems and gas-cleanup units;*
- (6) enhanced heat recovery systems;*
- (7) exhaust heat recovery boilers;*
- (8) heat recovery steam generators;*
- (9) superheaters and evaporators;*
- (10) enhanced steam turbine systems;*
- (11) methanation;*
- (12) coal combustion or gasification byproduct and coproduct handling, storage, or treatment facilities;*
- (13) biomass cofiring storage, distribution, and firing systems;*
- (14) coal cleaning or drying processes, such as coal drying/moisture reduction, air jigging, precombustion decarbonization, and coal flow balancing technology;*
- (15) oxy-fuel combustion technology, amine or chilled ammonia scrubbing, fuel or emission conversion through the use of catalysts, enhanced scrubbing technology, modified combustion technology such as chemical looping, and cryogenic technology;*
- (16) if the United States Environmental Protection Agency adopts a final rule or regulation regulating carbon dioxide as a pollutant, property that is used, constructed, acquired, or installed wholly or partly to capture carbon dioxide from an anthropogenic source in this state that is geologically sequestered in this state;*
- (17) fuel cells generating electricity using hydrogen derived from coal, biomass, petroleum coke, or solid waste; and*
- (18) any other equipment designed to prevent, capture, abate, or monitor nitrogen oxides, volatile organic compounds, particulate matter, mercury, carbon monoxide, or any criteria pollutant.*

(l) The Texas Commission on Environmental Quality by rule shall update the list adopted under Subsection (k) at least once every three years. An item may be removed from the list if the commission finds compelling evidence to support the conclusion that the item does not provide pollution control benefits.

(m) Notwithstanding the other provisions of this section, if the facility, device, or method for the

control of air, water, or land pollution described in an application for an exemption under this section is a facility, device, or method included on the list adopted under Subsection (k), the executive director of the Texas Commission on Environmental Quality, not later than the 30th day after the date of receipt of the information required by Subsections (c)(2) and (3) and without regard to whether the information required by Subsection (c)(1) has been submitted, shall determine that the facility, device, or method described in the application is used wholly or partly as a facility, device, or method for the control of air, water, or land pollution and shall take the actions that are required by Subsection (d) in the event such a determination is made.

Under the TCEQ's recently updated "Tax Relief for Pollution Control Property – Application Instructions and Equipment and Categories List – Effective January 2008", the Equipment and Categories List - Part B ("ECL Part B") is a list of the pollution control property categories adopted and set forth in TTC Sec. 26.045(f). The taxpayer is to supply a pollution control percentage for the equipment listed in Part B via calculations demonstrating pollution control, prevention and/or reductions achieved by the listed equipment or systems.

The following property descriptions outline the environmental purpose, including the anticipated environmental benefit of pollution control additions considered under the Application Instructions' ECL Part B that have been constructed and placed into use at the Facility as of its placed-in-service date, or installed subsequent to in-service since 1994:

Property Descriptions

Item #1 & 3 Combined-Cycle Gas Turbine Plant Heat Recovery Steam Generator ("HRSG") and Support Systems Tier IV B-8

40 CFR Part 60 Subparts DA and DB, NOx Limits for Electric Utility Steam Generating Units and Industrial-Commercial-Institutional Steam Generating Units for New Source Performance Standards ("NSPS").

TAC Rule 106.512, Standard Permit for Electric Generating Units (EGU)

NOTE: Permits issued under Texas Clean Air Act's Health & Safety Code Sections 382.011, applies to all electric generating units that emit air contaminants, regardless of size, and it is to reflect Best Available Control Technology ("BACT") for electric generating units on an output basis in pounds of NOx per megawatt hour, adjusted to reflect a simple cycle power plant.

The heat recovery steam generator ("HRSG") found in the Facility is a heat exchanger that recovers heat from a hot gas stream. It produces steam that can be used in a process or used to drive a steam turbine. A common application for an HRSG is in a combined-cycle power station, where hot exhaust from a gas turbine is fed to an HRSG to generate steam which in turn drives a steam turbine. This combination produces electricity in a more thermally efficient manner than either the gas turbine or steam turbine alone.

The Facility's HRSGs consist of three major components: the Evaporator, Superheater, and Economizer. The different components are put together to meet the operating requirements of the unit. Modular HRSGs normally consist of three sections: an LP (low pressure) section, a reheat/IP (intermediate pressure) section, and an HP (high pressure) section. The reheat and IP sections are separate circuits inside the HRSG. The IP steam partly feeds the reheat section. Each section has a steam drum and an evaporator section where water is converted to steam. This steam then passes through superheaters to raise the temperature and pressure past the saturation point.

Item #2 & 4 Steam Turbine and Support Systems Tier IV B-10

40 CFR Part 60 Subparts DA and DB, NOx Limits for Electric Utility Steam Generating Units and Industrial-Commercial-Institutional Steam Generating Units for New Source Performance Standards ("NSPS").

TAC Rule 106.512, Standard Permit for Electric Generating Units (EGU)

NOTE: Permits issued under Texas Clean Air Act's Health & Safety Code Sections 382.011, applies to all electric generating units that emit air contaminants, regardless of size, and it is to reflect Best Available Control Technology ("BACT") for electric generating units on an output basis in pounds of NOx per megawatt hour, adjusted to reflect a simple cycle power plant.

The steam turbine(s) found in the Facility operate on the Rankine cycle in combination with the Brayton cycle, as described above. Steam created in the Facility HRSG(s) from waste heat that would have otherwise been lost to the atmosphere enters the steam turbine via a throttle valve, where it powers the turbine

and connected generator to make electricity. Use of HRSG/Steam Turbine System combination provides the Facility with an overall efficiency of greater than 50%. Steam turbine systems similar to the Facility's have a history of achieving up to 95% availability on an annual basis and can operate for more than a year between shutdown for maintenance and inspections. (5)

Pollution Control Percentage Calculation: Avoided Emissions Approach

To calculate the percentage of the equipment or category deemed to be pollution control equipment, the Avoided Emissions approach has been used. This approach relies on thermal output differences between a conventional power generation system and the combined-cycle system at the Facility. Specifically, the percentage is determined by calculating the displacement of emissions associated with the Facility's thermal output and subtracting these emissions from a baseline emission rate. These displaced emissions are emissions that would have been generated by the same thermal output from a conventional system.

Greater energy efficiency reduces all air contaminant emissions, including the greenhouse gas, carbon dioxide. Higher efficiency processes include combined-cycle operation and combined heat and power ("CHP") generation. For electric generation the energy efficiency of the process expressed in terms of millions of British thermal units ("MMBTU's") per Megawatt-hour. Lower fuel consumption associated with increased fuel conversion efficiency reduces emissions across the board – that is NO_x, SO_x, particulate matter, hazardous air pollutants, and greenhouse gas emissions such as CO₂.

In calculating the percent exempt for the listed items from the ECL-Part B, we utilized Output-Based NO_x allocation method for both power generation projects that replaced existing facilities and "Greenfield" power and heat generation facilities. We looked at the various fossil fuel technologies in use today and chose the baseline facility to be a natural gas fuel-fired steam generator. We benchmarked this conventional generation to the subject natural gas-fired combined cycle generator at the Facility. By doing so, we narrowed the heat rate factors as much as possible to be conservative and uniform in modeling. The benchmark heat rate factor is the following:

Natural Gas fuel-fired Steam Generator: 10,490 BTU's/kWh

This baseline heat rate purposely omits other fossil fuel sources in order to eliminate impurity type characteristics, which in turn eliminated the NO_x emission and cost of control differences of each fossil fuel and generator type. Comparing the emissions impact of different energy generation facilities is concise when emissions are measured per unit of useful energy output. For the purpose of our calculations, we converted all the energy output to units of MWh (1 MWh = 3,413 MMBTU), and compared the total emission rate to the baseline facility.

The comparison steps to calculate the NO_x reduction is as follows:

Calculation (Reference Schedule A)

Step 1 – Subject Output-Based Limit Calculation (lbs NOx / MWh)

(Input-based Limit (lbs NOx/MMBTU)) X (Heat Rate (Btu/kWh)) / (1,000,000 Btu / 1,000 kWh) =
Output: (lbs NOx/MWh),

Step 2 – Subject Output Conversion Calculation (NOx Tons / Year)

(Output (lbs NOx/MWh) X (Unit Design Capacity (MW)) X (Capacity Factor) X ((365 Days) X (24 hrs/day)) / 2,000 lbs = Output: (NOx Tons/Year)

Step 3 – Baseline Output-Based Limit Calculation (lbs NOx / MWh)

(Input-based Limit (lbs NOx/MWh)) X (Heat Rate (Btu/kWh)) / (1,000,000 Btu / 1,000 kWh) =
Output: (lbs NOx/MWh)

Step 4 – Baseline Output Conversion Calculation (NOx Tons / Year)

(Output (lbs NOx/MMBtu) X (Unit Design Capacity (MW)) X (Capacity Factor) X ((365 Days) X (24 hrs/day)) / 2,000 lbs = Output: (NOx Tons/Year)

Step 5 – Percent NOx Reduction Calculation

$((\text{Output Baseline})_{\text{step 4}} - (\text{Output Subject}))_{\text{step 2}} / (\text{Output Subject})_{\text{step 2}} = \% \text{ Reduction Output Subject}$

Step 6 – Percent Exempt Calculation

(Total Subject Facility Cost) X (% NOx Reduction) = Capital Cost of NOx Avoidance

Step 7 – Percent Exempt Calculation

Total Cost of NOx Avoidance / Total Cost of HB 3732 Equipment = % Exempt

- If % Exempt is greater than 100% HB 3732 Equipment is 100% Exempt
- If % Exempt is less than 100% then HB 3732 Equipment is partially exempt at the Step 6 calculation.

NOTE: See the attached calculation sheet for the details regarding Facility-specific calculations and property tax exemption percentage results based upon these calculations.

REFERENCES

1. "Output-Based Regulations: A Handbook for Air Regulators", U.S. Environmental Protection Agency, Office of Atmospheric Programs – Climate Protection Partnerships Division, August, 2004, p.4.
2. "Output-Based Emissions Standards; Advancing Innovative Energy Technologies", Northeast-Midwest Institute; 2003, p. 9.
3. IBID, p.13.
4. "Output-Based Regulations: A Handbook for Air Regulators", U.S. Environmental Protection Agency, Office of Atmospheric Programs – Climate Protection Partnerships Division, August, 2004, p.4.
5. http://www.cogeneration.net/Combined_Cycle_Power_Plants.htm
6. "Output-Based Emissions Standards; Advancing Innovative Energy Technologies", Northeast-Midwest Institute; 2003, p. 9.

9. PARTIAL PERCENTAGE CALCULATION

N/A.

10. PROPERTY CATEGORIES AND COSTS

See attached Schedule 10.

11. EMISSION REDUCTION INCENTIVE GRANT

Will an application for an Emission Reduction Incentive Grant be on file for this property/project:

Yes No

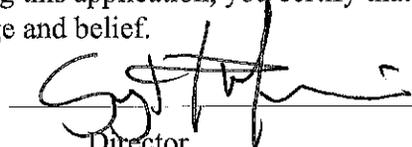
12. APPLICATION DEFICIENCIES

After an initial review of the application, the TCEQ may determine that the information provided with the application is not sufficient to make a use determination. The TCEQ may send a notice of deficiency, requesting additional information that must be provided within 30 days of written notice.

13. FORMAL REQUEST FOR SIGNATURE

By signing this application, you certify that this information is true to the best of your knowledge and belief.

NAME:



DATE:

22 April 2008

TITLE:

Director

COMPANY:

Duff and Phelps LLC

Under Texas Penal Code, Section 37.10, if you make a false statement on this application, you could receive a jail term of up to one year and a fine up to \$2,000, or a prison term of two to 10 years and a fine of up to \$5,000.

14. DELINQUENT FEE/PENALTY PROTOCOL

This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. (Effective 9/1/2006)

Navasota - Colorado Bend - Phase I
 3821 S. State Hwy 60
 TCEQ Use Determination Application - 2008
 Schedule 10
 Tier IV

10. PROPERTY CATEGORIES AND COST

PROPERTY	PROJECT ID. NO.	IN SERVICE DATE	TAXABLE ON OR BEFORE 1/1/94? (Y / N)	TIER IV DECISION FLOW CHART BOX	ECL NUMBER	ESTIMATED PURCHASE COST	% EXEMPT	EXEMPT COST
Heat Recovery Steam Generators (HRSG) Steam Turbine System	1	2007	N	3	B-8	\$ 26,544,805	100%	\$ 26,544,805
	2	2007	N	3	B-10	\$ 10,091,206	100%	\$ 10,091,206
Tier IV Total						<u>\$ 36,636,012</u>		<u>\$ 36,636,012</u>

Navasota - Colorado Bend - Phase I - 3821 S. State Hwy 60
 TCEQ Use Determination Application - 2008

Navasota - Colorado Bend - Phase II
 3821 S. State Hwy 60
 TCEQ Use Determination Application - 2008
 Scheule 10
 Tier IV

10. PROPERTY CATEGORIES AND COST

PROPERTY	PROJECT ID. NO.	IN SERVICE DATE	TAXABLE ON OR BEFORE 1/1/94? (Y / N)	TIER IV DECISION FLOW CHART BOX	ECL NUMBER	ESTIMATED PURCHASE COST	% EXEMPT	EXEMPT COST
Heat Recovery Steam Generators (HRSG) Steam Turbine System	3	CWIP	N	3	B-8	\$ 30,018,278	100%	\$ 30,018,278
	4	CWIP	N	3	B-10	\$ 22,386,336	100%	\$ 22,386,336
Tier IV Total						\$ 52,404,614		\$ 52,404,614

Navasota - Colorado Bend - Phase II - 3821 S. State Hwy 60
 TCEQ Use Determination Application - 2008

52 404 614
 36 636 012

 89 040 636

**Navasota Wharton Energy Partners L.P.
Colorado Bend Energy Center - Phase I
Schedule A - 2008 Thermal Efficiency Calculation**

Subject Details:

Average Heat Rate ⁽¹⁾	7,746 (Btu/kWh)
NOx Emissions ⁽²⁾	168.6 Tons / year
Plant Capacity ⁽³⁾	275 MW
Capacity Factor ⁽⁴⁾	100.00%
Technology ⁽⁵⁾	Combined Cycle
Total Subject Facility Cost ⁽⁶⁾	\$169,296,979
Total Cost of Tier IV Equipment ⁽⁷⁾	\$36,636,012

Baseline Details:

Average Heat Rate ⁽⁸⁾	10,490 Btu/kWh
Technology ⁽⁹⁾	Steam Turbine

**STEP 1
Subject Output-Based Limit Calculation (lbs NOx / MWh)**

Input-based Limit (lbs NOx/MMBtu)	x	Heat Rate (Btu/kWh)	/	Unit Conversions (1,000,000 Btu / 1000 kWh)	=	Output-based Limit (lbs NOx/MWh)
0.0198		7,746		1,000		0.1533

**STEP 2
Subject Output Conversion Calculation (NOx Tons / Year)**

Output-based Limit (lbs NOx/MWh)	x	Capacity (MW)	x	Capacity Factor	x	Unit Conversions (365 days * 24 Hours / 2,000 lbs)	=	Output NOx (Tons/Year)
0.1533		275		100.00%		4		168.6

**STEP 3
Baseline Output-Based Limit Calculation (lbs NOx / MWh)**

Input-based Limit (lbs NOx/MMBtu)	x	Heat Rate (Btu/kWh)	/	Unit Conversions (1,000,000 Btu / 1000 kWh)	=	Output-based Limit (lbs NOx/MWh)
0.0198		10,490		1,000		0.2077

**STEP 4
Baseline Output Conversion Calculation (NOx Tons / Year)**

Output-based Limit (lbs NOx/MWh)	x	Capacity (MW)	x	Capacity Factor	x	Unit Conversions (365 days * 24 Hours / 2,000 lbs)	=	Output NOx (Tons/Year)
0.2077		275		100.00%		4		228.5

**STEP 5
Percent NOx Reduction Calculation**

(Output Baseline 228.5	-	Output Subject)	/	Output Subject	=	% NOx Reduction
		168.6		168.6		35.5%

26

**STEP 6
Percent Exempt Calculation**

Total Subject Unit Cost	x	% NOx Reduction	=	Capital Cost of NOx Avoidance
\$169,296,979		35.5%		\$60,100,428

**STEP 7
Percent Exempt Calculation**

Total Cost of NOx Avoidance	/	Total Cost of HB 3732 Equipment	=	% Exempt
\$60,100,428		\$36,636,012		164.0%

Conclude	100%
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- (1) - Heat rate represents plant performance test heat rate (HHV) and was provided by the client
- (2) - NOx emissions is the NOx pollutant emission permit limit in tons per year provided by the client
- (3) - Plant capacity is the average nominal capacity and was provided by the client
- (4) - Capacity factor is the maximum operating level allowed under the emissions permit provided by the client
- (5) - Technology represents the actual technology of the subject
- (6) - Total subject facility cost represents the total cost to build the entire facility and it was determined based on data provided by the client
- (7) - Total Tier IV equipment was determined by allocating the eligible TCEQ ECL part B equipment and their associated cost from actual data provide by the client
- (8) - Baseline heat rate was published by the Energy Information Administration ("EIA")
- (9) - Baseline technology represents the technology that the subject would have replaced at the time of the subjects construction

**Navasota Wharton Energy Partners LP
Colorado Bend Energy Center - Phase II
Schedule A - 2008 Thermal Efficiency Calculation**

Subject Details:

Average Heat Rate ⁽¹⁾	7,746 (Btu/kWh)
NOx Emissions ⁽²⁾	168.6 Tons / year
Plant Capacity ⁽³⁾	275 MW
Capacity Factor ⁽⁴⁾	100.00%
Technology ⁽⁵⁾	Combined Cycle
Total Subject Facility Cost ⁽⁶⁾	\$162,042,822
Total Cost of Tier IV Equipment ⁽⁷⁾	\$52,404,614

Baseline Details:

Average Heat Rate ⁽⁸⁾	10,490 Btu/kWh
Technology ⁽⁹⁾	Steam Turbine

**STEP 1
Subject Output-Based Limit Calculation (lbs NOx / MWh)**

Input-based Limit (lbs NOx/MMBtu)	x	Heat Rate (Btu/kWh)	/	Unit Conversions (1,000,000 Btu / 1000 kWh)	=	Output-based Limit (lbs NOx/MWh)
0.0198		7,746		1,000		0.1533

**STEP 2
Subject Output Conversion Calculation (NOx Tons / Year)**

Output-based Limit (lbs NOx/MWh)	x	Capacity (MW)	x	Capacity Factor	x	Unit Conversions (365 days * 24 Hours / 2,000 lbs)	=	Output NOx (Tons/Year)
0.1533		275		100.00%		4		168.6

**STEP 3
Baseline Output-Based Limit Calculation (lbs NOx / MWh)**

Input-based Limit (lbs NOx/MMBtu)	x	Heat Rate (Btu/kWh)	/	Unit Conversions (1,000,000 Btu / 1000 kWh)	=	Output-based Limit (lbs NOx/MWh)
0.0198		10,490		1,000		0.2077

**STEP 4
Baseline Output Conversion Calculation (NOx Tons / Year)**

Output-based Limit (lbs NOx/MWh)	x	Capacity (MW)	x	Capacity Factor	x	Unit Conversions (365 days * 24 Hours / 2,000 lbs)	=	Output NOx (Tons/Year)
0.2077		275		100.00%		4		228.5

**STEP 5
Percent NOx Reduction Calculation**

(Output Baseline 228.5	-	Output Subject) 168.6	/	Output Subject 168.6	=	% NOx Reduction 35.5%
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**STEP 6
Percent Exempt Calculation**

Total Subject Unit Cost \$162,042,822	X	% NOx Reduction 35.5%	=	Capital Cost of NOx Avoidance \$57,525,202
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**STEP 7
Percent Exempt Calculation**

Total Cost of NOx Avoidance \$57,525,202	/	Total Cost of IIB 3732 Equipment \$52,404,614	=	% Exempt 109.8%
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Conclude	100%
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- (1) - Heat rate represents the anticipated heat rate (HHV) and was provided by the client
- (2) - NOx emissions is the NOx pollutant emission permit limit in tons per year provided by the client
- (3) - Plant capacity is the average nominal capacity and was provided by the client
- (4) - Capacity factor is the maximum operating level allowed under the emissions permit provided by the client
- (5) - Technology represents the actual technology of the subject
- (6) - Total subject facility cost represents the total cost to build the entire facility and it was determined based on data provide by the client
- (7) - Total Tier IV equipment was determined by allocating the eligible TCEQ ECL part B equipment and their associated cost from actual data provide by the client
- (8) - Baseline heat rate was published by the Energy Information Administration ("EIA")
- (9) - Baseline technology represents the technology that the subject would have replaced at the time of the subjects construction

Bryan W. Shaw, Ph.D., *Chairman*
Carlos Rubinstein, *Commissioner*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 10, 2012

Mr. Greg Maxim
Director
Duff and Phelps, LLC
919 Congress Ave Ste 1450
Austin, Texas 78701

Re: Notice of Negative Use Determination
Navasota Wharton Energy Partners, LP
Colorado Bend Energy Center
3821 S. State Hwy 60
Wharton (Wharton County)
Application Number: 07-11926; Tracking Number: DPCOBendB

Dear Mr. Maxim:

This letter responds to Navasota Wharton Energy Partners, LP's Application for Use Determination for the Colorado Bend Energy Center, remanded to the executive director on June 29, 2012, pursuant to the Texas Commission on Environmental Quality's (TCEQ) Tax Relief for Pollution Control Property Program

The TCEQ has completed the review for application #07-11926 and has issued a Negative Use Determination for the property in accordance with Title 30 Texas Administrative Code (TAC) §17.4 and §17.6. Heat recovery steam generators are used solely for production and, therefore, are not eligible for a positive use determination.

Please be advised that a Negative Use Determination may be appealed. The appeal must be filed with the TCEQ Chief Clerk within 20 days after the receipt of this letter in accordance with 30 TAC §17.25.

If you have questions regarding this letter or need further assistance, please contact Ronald Hatlett of the Tax Relief for Pollution Control Property Program by telephone at (512) 239-6348, by e-mail at ronald.hatlett@tceq.texas.gov, or write to the Texas Commission on Environmental Quality, Tax Relief for Pollution Control Property Program, MC-110, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

A handwritten signature in cursive script, appearing to read "cgoodin".

Chance Goodin, Team Leader
Stationary Source Programs
Air Quality Division

Mr. Greg Maxim
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July 10, 2012

CG/RH

cc: Chief Appraiser, Wharton County Appraisal District, 308 E. Milam St., Wharton, Texas 77488-4918