



Montana Department of  
**ENVIRONMENTAL QUALITY**

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March 12, 2009

Lynn T. Reed, P.E.  
Bear Paw Energy, LLC  
P.O. Box 580  
Baker, MT 59313

Dear Ms. Reed:

Air Quality Permit #2982-04 is deemed final as of March 12, 2009, by the Department of Environmental Quality (Department). This permit is for a natural gas compressor station. All conditions of the Department's Decision remain the same. Enclosed is a copy of your permit with the final date indicated.

For the Department,

Vickie Walsh  
Air Permitting Program Supervisor  
Air Resources Management Bureau  
(406) 444-3490

Kathleen Doran, P.E.  
Environmental Engineer  
Air Resources Management Bureau  
(406) 247-4443

VW:kd  
Enclosure

Montana Department of Environmental Quality  
Permitting and Compliance Division

Air Quality Permit #2982-04

Bear Paw Energy, LLC  
North Compressor Station  
P.O. Box 580  
Baker, MT 59313

March 12, 2009





2. The pound per hour (lb/hr) emission limits for each engine shall be determined using the following equations and pollutant specific grams per brake horsepower-hour (g/bhp-hr) emission factors (ARM 17.8.752):

Equation

Emission Limit (lb/hr) = Emission Factor (g/bhp-hr) \* maximum rated design capacity of engine (bhp) \* 0.002205 lb/g

Rich-Burn Emission Factors (600 bhp)

Nitrogen oxides (NO <sub>x</sub> )	2.0 g/bhp-hr
Carbon monoxide (CO)	2.0 g/bhp-hr
Volatile organic compounds (VOC)	1.0 g/bhp-hr

3. BPE shall operate all equipment to provide the maximum air pollution control for which it was designed (ARM 17.8.752).
4. BPE shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any sources installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304).
5. BPE shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308).
6. BPE shall treat all unpaved portions of the haul roads, access roads, parking lots, or general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation in Section II.A.5 (ARM 17.8.749).
7. The flare stack shall be used only for equipment blow-down when a shut down is required at the North Compressor Station, or for emergency use at the North Compressor Station. In the event that repairs are required or an emergency arises, BPE shall route all the VOC and Hydrogen Sulfide (H<sub>2</sub>S) vents at the plant to the emergency flare (ARM 17.8.752).
8. BPE shall limit the hours of operation of the emergency flare to 1,800 hours during any rolling 12-month period. This will result in emissions from the emergency flare of less than 41.4 tons of sulfur oxides (SO<sub>x</sub>) and 45.8 tons of CO during any rolling 12-month time period. Any calculations used to establish SO<sub>x</sub> and CO emissions shall be approved by the Department and shall be based on the most recent AP-42 factors, unless otherwise allowed by the Department (ARM 17.8.749 and ARM 17.8.1204).
9. BPE shall install a flash tank to operate as part of the glycol dehydration system. The flash tank shall operate at sufficient pressure to keep the flash off gases within the process and to minimize VOC and Hazardous Air Pollutant (HAP) emissions (ARM 17.8.749 and ARM 17.8.752).
10. BPE shall comply with all applicable standards and limitations, and the reporting, record keeping, and notification requirements contained in 40 CFR 63, Subpart HH, *National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities* for all applicable components. For area sources, this includes each TEG dehydration unit at subject facilities (ARM 17.8.342 and 40 CFR 63, Subpart HH).

11. The condensate loading at the North Compressor Station shall be operated under a vapor balance system. All condensate loading to tank trucks shall be conducted using bottom loading. Vapor flash resulting from loadout operations shall be returned to the condensate storage tank to maintain vapor balanced emissions control. Upon completion of the loadout, all lines used for loading shall be purged of VOC vapors. These VOC vapors shall be recycled for compression (ARM 17.8.752).
12. BPE shall comply with all applicable standards and limitations, and the reporting, record keeping, and notification requirements contained in 40 CFR 60, Subpart JJJJ, *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines* and 40 CFR 63, Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, for any applicable natural gas engine (ARM 17.8.340 and 40 CFR 60, Subpart JJJJ and ARM 17.8.342 and 40 CFR 63, Subpart ZZZZ).

#### B. Testing Requirements

1. The compressor engine shall be initially tested for NO<sub>x</sub> and CO concurrently. The initial source testing shall be conducted within 180 days of the initial start-up date of the compressor engine. After the initial source test, additional testing shall continue on an every 4-year basis or according to another testing/monitoring schedule as may be approved by the Department, to demonstrate compliance with the NO<sub>x</sub> and CO pound per hour (lb/hr) emission limits as calculated in Section II.A.2 (ARM 17.8.105 and ARM 17.8.749).
2. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
3. The Department may require further testing (ARM 17.8.105).

#### C. Operational Reporting Requirements

1. BPE shall supply the Department with annual production information for all emission points, as required by the Department in the annual emission inventory request. The request will include, but is not limited to, all sources of emissions identified in the emission inventory contained in the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in the units required by the Department. This information may be used to calculate operating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

2. BPE shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include ***the addition of a new emissions unit***, change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation. The notice must be submitted to the Department, in writing, 10 days prior to startup or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(l)(d) (ARM 17.8.745).

3. All records compiled in accordance with this permit must be maintained by BPE as a permanent business record for at least 5 years following the date of the measurement, must be available at the plant site for inspection by the Department, and must be submitted to the Department upon request (ARM 17.8.749).
4. BPE shall document, by month, the hours of operation for the emergency flare. By the 25<sup>th</sup> day of each month, BPE shall total the hours of operation for the emergency flare for the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section II.A.8. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).
5. BPE shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit as required by ARM 17.8.1204(3)(b). The annual certification shall comply with the certification requirements of ARM 17.8.1207. The annual certification shall be submitted along with the annual emission inventory information (ARM 17.8.749 and ARM 17.8.1204).

### SECTION III: General Conditions

- A. Inspection – BPE shall allow the Department’s representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment (Continuous Emission Monitoring System (CEMS), Compliance Emission Rate Monitoring System (CERMS)) or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver – The permit and the terms, conditions, and matters stated herein shall be deemed accepted if BPE fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving BPE of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.* (ARM 17.8.756).
- D. Enforcement – Violations of limitations, conditions, and requirements contained herein may constitute grounds for permit revocation, penalties, or other enforcement action as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals – Any person or persons jointly or severally adversely affected by the Department’s decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department’s decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA. The issuance of a stay on a permit by the Board postpones the effective date of the Department’s decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the Department’s decision on the application is final 16 days after the Department’s decision is made.
- F. Permit Inspection – As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by the Department at the location of the source.

- G. Permit Fee – Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by BPE may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Duration of Permit – Construction or installation must begin or contractual obligations entered into that would constitute substantial loss within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall expire (ARM 17.8.762).

Permit Analysis  
Bear Paw Energy, Inc.  
Baker North Compressor Station  
Fallon County, MT  
Permit #2982-02

I. Introduction/Process Description

Bear Paw Energy, Inc. (BPE) owns and operates a natural gas compressor and dehydration station known as the North Compressor Station. The facility is located on Anticline Road in Section 4, Township 9 North, Range 58 East, in Fallon County, near Baker, Montana.

A. Permitted Equipment

The North Compressor Station consists of the following equipment:

- One natural gas rich-burn compressor engine (up to 600 brake horsepower (bhp)) with a non-selective catalytic reduction (NSCR) unit, an air to fuel ratio (AFR) controller;
- One triethylene glycol (TEG) dehydration reboiler unit (up to 200,000 British thermal units per hour (Btu/hr));
- One flash tank;
- One Utility Safety Emergency Flare Pilot (up to 3.7 million Btu per hour (MMBtu/hr));
- One Utility Safety Emergency Flare (up to 3.2 million standard cubic feet per day (MMscfd));
- Two 400-barrel (bbl) condensate storage tanks; and
- Miscellaneous support equipment and materials.

B. Source Description

The North Compressor Station serves two primary purposes that include compressing and dehydrating natural gas that flows to the BPE Baker Gas Plant located 15 miles south of the compressor station. The natural gas contains moisture that must be removed from the system prior to being sent into the transmission system. This is accomplished with a dehydrator, also commonly called a reboiler or glycol unit.

The designed maximum throughput of the compressor station is 3.2 MMscfd, but approximately 2.7 MMscfd of produced gas will enter the suction of the three-stage compressor at 30-50 psig. The compressor will compress the gas to approximately 650 psig at the third-stage discharge. The third-stage discharge will be cooled to approximately 120°F and the resulting liquids collected for truck transfer. The scrubber's liquids collected for truck transfer will be held in a tank with a gas line recycled to the first-stage discharge. The cooled third-stage discharge gas flows to the TEG dehydration skid.

By contacting the water-saturated gas with the TEG, also known as lean glycol, the gas stream is "dried" by removing the water to approximately 4 to 5 pounds per million standard cubic feet (lbs/MMscf), which results in a 20°F dewpoint for the gas. The TEG-to-water ratio (how many gallons of TEG are required to absorb 1 pound of water) varies between 2 and 5 gallons of TEG per pound of water; the industry accepted rule-of-thumb is 3 gallons of TEG per pound of water removed. Emissions are related to the glycol recirculation rate.

The dried gas flows through the pipeline to the BPE Baker Gas plant. The rich glycol stream, laden with moisture, methane, and Volatile Organic Compound (VOC), will pass through a flash tank to remove up to 50% of the VOC as "flash off gas". This collected flash off gas is

reintroduced into the station inlet. The rich glycol stream is then processed in the TEG regenerator, also known as the reboiler, to remove the absorbed water, remaining methane and VOC. The glycol returns to the absorber as lean glycol. The TEG regenerator off gas will be directly emitted from the still vent.

The 25-foot flare stack provides emergency pressure relief and blowdown capability for the North Compressor Station down time. In order to maintain potential emissions below major source thresholds, use of the emergency flare is limited to 1,800 hours per year.

### C. Permit History

On April 1, 1997, BPE submitted an application for **Permit #2982-00** to construct a new facility, the Baker North Compressor Station. The permit application was not deemed to be complete until July 15, 1997, and the final air quality preconstruction Permit #2982-00 was issued on September 3, 1997.

On February 15, 2000, the Department of Environmental Quality (Department) received, from TransMontaigne, Inc., a notification of an error contained in the permit in the legal description of BPE's North Compressor Station. Permit #2982-00 incorrectly identified the location of the compressor station as being in Section 3. The correct legal description for BPE's North Compressor Station is SW NW Section 4, Township 9 North, Range 58E, Fallon County, Montana. The permit action was an administrative action. **Permit #2982-01** replaced Permit #2982-00.

On June 19, 2003, BPE submitted an application for Permit #2982-02 to replace the existing vapor recovery unit (VRU) control system with a flare, for the dehydration still vent gases. On October 10, 2003, the Department issued a deficiency letter that requested a Best Available Control Technology (BACT) analysis. BPE sent a letter on December 17, 2003, requesting additional time, but since no information was forthcoming the permit application was considered withdrawn.

On August 15, 2005, the Department received from BPE a permit application for the proposed replacement of the VRU by a continuous flare, to control VOC emissions from the reboiler still vent. The application also requested operational restrictions of 1,800 hours per year for the facility's existing Emergency Flare, to allow the facility to operate as a synthetic minor source.

The Department determined the application was incomplete and requested more information on August 29, 2005. BPE provided a response on September 30, 2005. After review, it was determined that additional information was required and the Department requested this information on October 13, 2005. On December 9, 2005, the Department received the BACT analysis for the proposed project. BPE's December submittal concluded that it was economically infeasible to install a flare, and revised their proposal to reflect the removal of the VRU and installation of a flash tank. **Permit #2982-02** replaced Permit #2982-01.

On January 28, 2008, the Department received a letter from BPE requesting language changes to allow for greater operational flexibility. Specifically, the letter requested conditions pertaining to the natural gas compressor engine be written in a 'de minimis friendly' manner. The permit was updated to reflect current permit language and format. **Permit #2982-03** replaced Permit #2982-02.

### D. Current Permit Action

On December 3, 2008, the Department received a letter from BPE requesting removal of the requirement in II.A. - Emission Limitations – that stated “BPE shall maintain the glycol recirculation rate at an optimal Triethylene Glycol (TEG)-to-water ratio to minimize VOC

emissions (ARM 17.8.749)". Specifically BPE refers to the Department's determination stated in the Permit Analysis (II.C.8.) that "the glycol dehydration unit emits less than one ton per year (TPY) of benzene; therefore is exempt from the control requirements listed in 40 CFR 63, Subpart HH." However, BPE must maintain records of the determinations applicable to this exemption as required in 40 CFR 63.774(d) (1). The current permit action updates the permit to reflect the change.

On January 20, 2009, the Department received information of an existing 400 bbl condensate tank at the North Compressor Station facility.

On January 21, 2009, the Department received information the North Compressor Station facility has two existing 400 bbl condensate tanks. **Permit #2982-04** replaces Permit #2982-03.

#### E. Additional Information

Additional information, such as applicable rules and regulations, Best Available Control Technology (BACT)/Reasonably Available Control Technology (RACT) determinations, air quality impacts, and environmental assessments, is included in the analysis associated with each change to the permit.

### II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department. Upon request, the Department will provide references for location of complete copies of all applicable rules and regulations or copies where appropriate.

#### A. ARM 17.8, Subchapter 1 – General Provisions, including but not limited to:

1. ARM 17.8.101 Definitions. This rule includes a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.
3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

BPE shall comply with the requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation or to continue for a period greater than four hours.

5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction of the total amount of air contaminant emitted, conceals, or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner as to create a public nuisance.

B. ARM 17.8, Subchapter 2 – Ambient Air Quality, including, but not limited to the following:

1. ARM 17.8.204 Ambient Air Monitoring
2. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
3. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
4. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
5. ARM 17.8.213 Ambient Air Quality Standard for Ozone
6. ARM 17.8.214 Ambient Air Quality Standard for Hydrogen Sulfide
7. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
8. ARM 17.8.221 Ambient Air Quality Standard for Visibility
9. ARM 17.8.222 Ambient Air Quality Standard for Lead
10. ARM 17.8.223 Ambient Air Quality Standard for PM<sub>10</sub>
11. ARM 17.8.230 Fluoride in Forage

BPE must maintain compliance with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 – Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter. (2) Under this rule, BPE shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause, allow, or permit to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this rule.
4. ARM 17.8.310 Particulate Matter, Industrial Process. This rule requires that no person shall cause, allow, or permit to be discharged into the atmosphere particulate matter in excess of the amount set forth in this rule.
5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. (4) Commencing July 1, 1972, no person shall burn liquid or solid fuels containing sulfur in excess of one pound of sulfur per million Btu fired. (5) Commencing July 1, 1971, no person shall burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions. BPE will utilize natural gas for operating its fuel burning equipment, which will meet this limitation.
6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank is equipped with a vapor loss control device as described in (1) of this rule.

7. ARM 17.8.340 Standard of Performance for New Stationary Sources and Emission Guidelines for Existing Sources. This rule incorporates, by reference, 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS), including the following subparts:
- a. 40 CFR 60, Subpart A – General provisions apply to all equipment or facilities subject to an NSPS Subpart as listed below:
  - b. 40 CFR 60, Subpart KKK - Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants does not apply to the North Compressor Station because the North Compressor Station does not extract or fractionate natural gas liquids from field gas; therefore, the North Compressor Station does not meet the definition of a natural gas processing plant as defined in 40 CFR 60, Subpart KKK.
  - c. 40 CFR 60, Subpart LLL – Standards of Performance for Onshore Natural Gas Processing: SO<sub>2</sub> Emissions does not apply to the North Compressor Station because the North Compressor Station does not utilize a sweetening unit to process sour gas.
  - d. 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines contains NSPS requirements that apply to owners or operators of stationary spark ignition (SI) internal combustion engine (ICE) that commence construction, modification, or reconstruction after June 12, 2006, where the stationary ICE is manufactured after July 1, 2007, for engines greater than 500 bhp, or after January 1, 2008, for engines less than 500 bhp. This NSPS will apply if the engine remains or will remain at the permitted location for more than 12 months, or a shorter period of time for an engine located at a seasonal source. A seasonal source remains at a single location on a permanent basis (at least 2 years) and operates three months or more each year.

Because the natural gas SI ICE engine was manufactured before July 1, 2007, this NSPS does not currently apply. However, because the permit is written in a de minimis-friendly manner, the NSPS could apply to future engines.

8. ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source Categories. The source, as defined and applied in 40 CFR Part 63, shall comply with the requirements of 40 CFR Part 63, as listed below:
- a. 40 CFR 63, Subpart A – General provisions apply to all equipment or facilities subject to a National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart as listed below:
  - b. 40 CFR 63, Subpart HH – National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities. Owners or operators of oil and natural gas production facilities, as defined and applied in 40 CFR Part 63 shall comply with the applicable provisions of 40 CFR Part 63, Subpart HH. In order for a natural gas production facility to be subject to 40 CFR Part 63, Subpart HH requirements, certain criteria must be met. First, a facility must either process, upgrade, or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. Second, the facility must also contain an affected source as specified in paragraphs (b)(1) through (b)(4) of 40 CFR Part 63, Subpart HH. Finally if the criteria are met, and the exemptions contained in paragraphs (e)(1) and (e)(2) of 40 CFR Part 63, Subpart HH do not apply, the facility is subject to the applicable provisions of 40 CFR Part 63, Subpart HH. The facility can be either a major or area source of HAPs.

Based on previous information provided by BPE, the North Compressor Station facility is considered an area source of HAPs that is subject to 40 CFR 63, Subpart HH. For area sources, the affected source includes each TEG dehydration unit. However, because the glycol dehydration unit emits less than 0.9 megagrams (1 ton per year (TPY)) of benzene, it is exempt from the control requirements listed in 40 CFR 63, Subpart HH. Records of the determinations applicable to this exemption must be maintained as required in 40 CFR 63.774(d)(1).

- c. 40 CFR 63, Subpart HHH National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities. Owners or operators of natural gas transmission or storage facilities, as defined and applied in 40 CFR 63, shall comply with the standards and provisions of 40 CFR 63, Subpart HHH. In order for a natural gas transmission and storage facility to be subject to 40 CFR 63, Subpart HHH requirements, certain criteria must be met. First, the facility must transport or store natural gas prior to the gas entering the pipeline to a local distribution company or to a final end user if there is no local distribution company. In addition, the facility must be a major source of HAPs as determined using the maximum natural gas throughput as calculated in either paragraphs (a)(1) and (a)(2) or paragraphs (a)(2) and (a)(3) of 40 CFR 63, Subpart HHH. Second, a facility must contain an affected source (glycol dehydration unit) as defined in paragraph (b) of 40 CFR 63, Subpart HHH. Finally, if the first two criteria are met, and the exemptions in paragraph (f) of 40 CFR 63, Subpart HHH, do not apply, the facility is subject to the applicable provisions of 40 CFR 63, Subpart HHH. Based on previous information submitted by BPE, the North Compressor Station facility is not subject to the provisions of 40 CFR 63, Subpart HHH, because the facility is not a major source of HAPs.
- d. 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). An affected engine is any existing, new or reconstructed stationary RICE that remains or will remain at the permitted location for more than 12 months, or a shorter period of time for an engine located at a seasonal source. A seasonal source remains at a single location on a permanent basis (at least 2 years) and operates 3 months or more each year.

Since the natural gas RICE was installed before June 12, 2006, the engine is considered *existing* stationary RICE, and does not have requirements under this MACT as specified by 40 CFR 63.6590(b)(3). However, since the permit is written in a de minimis-friendly manner, MACT requirements could apply to future engines.

- D. ARM 17.8, Subchapter 5 – Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:
  - 1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that an applicant submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. BPE was not required to submit a permit application fee for the current permit action because the current permit action is considered an administrative amendment.
  - 2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit (excluding an open burning permit) issued by

the Department. The air quality operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that prorate the required fee amount.

- E. ARM 17.8, Subchapter 7 – Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
  2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit modification to construct, modify, or use any air contaminant sources that have the Potential to Emit (PTE) more than 25 tons per year of any pollutant. BPE's North Compressor Station has the potential to emit nitrogen oxides (NO<sub>x</sub>), sulfur oxides (SO<sub>x</sub>), carbon monoxide (CO), and VOC at greater than 25 tons per year; therefore, an air quality permit is required.
  3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit program.
  4. ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
  5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) This rule requires that a permit application be submitted prior to installation, modification, or use of a source. The current permit action is considered an administrative amendment; therefore, a permit application was not required. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. The current permit action is an administrative amendment, and therefore, did not require publication.
  6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
  7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. The required BACT analysis is included in Section III of this permit analysis.
  8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.

9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving BPE of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*
  10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
  11. ARM 17.8.760 Additional Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those applications that require an environmental impact statement.
  12. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or modified source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than one year after the permit is issued.
  13. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of the permittee, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
  14. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.
  15. ARM 17.8.765 Transfer of Permit. This rule states that an air quality permit may be transferred from one person to another if written notice of intent to transfer, including the names of the transferor and the transferee, is sent to the Department.
- F. ARM 17.8, Subchapter 8 – Prevention of Significant Deterioration of Air Quality, including, but not limited to:
1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
  2. ARM 17.8.818 Review of Major Stationary Sources and Major Modifications--Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification, with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

This facility is not a major stationary source since this facility is not a listed source and the facility's PTE is below 250 tons per year of any pollutant (excluding fugitive emissions).

G. ARM 17.8, Subchapter 12 – Operating Permit Program Applicability, including, but not limited to:

1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any source having:
  - a. PTE greater than 100 tons/year of any pollutant;
  - b. PTE greater than 10 tons/year of any one HAP, PTE greater than 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule; or
  - c. PTE greater than 70 tons/year of particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>) in a serious PM<sub>10</sub> nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program. (1) Title V of the FCAA amendments of 1990 requires that all sources, as defined in ARM 17.8.1204(1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #2982-04 for the BPE North Compressor Station, the following conclusions were made:
  - a. The facility's PTE is less than 100 tons/year for any pollutant.
  - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year for all HAPs.
  - c. This source is not located in a serious PM<sub>10</sub> nonattainment area.
  - d. This facility is not subject to any current NSPS, although it could be subject to 40 CFR 60, subpart JJJJ in the future.
  - e. This facility is subject to the area source provisions of NESHAP standard 40 CFR 63, Subparts HH. This facility may be subject to the area source provisions of 40 CFR 63, Subpart ZZZZ in the future.
  - f. This source is not a Title IV affected source, nor a solid waste combustion unit.
  - g. This source is not an Environmental Protection Agency (EPA) designated Title V source.
  - h. As allowed by ARM 17.8.1204(3), the Department may exempt a source from the requirement to obtain an air quality operating permit by establishing federally enforceable limitations which limit that source's potential to emit.
    - i. In applying for an exemption under this section, the owner or operator of the source shall certify to the Department that the source's potential to emit, does not require the source to obtain an air quality operating permit.
    - ii. Any source that obtains a federally enforceable limit on potential to emit shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit.

BPE has taken federally enforceable permit limits to keep potential SO<sub>x</sub> and CO emissions below major source permitting thresholds by limiting the emergency flare hours to less than 1,800 hours per rolling 12-months. Therefore, the facility is not a major source and, thus a Title V operating permit is not required.

The Department determined that the annual reporting requirements contained in the permit are sufficient to satisfy this requirement.

3. ARM 17.8.1207 Certification of Truth, Accuracy, and Completeness.

BPE shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit as required by ARM 17.8.1204 (3)(b). The annual certification shall comply with requirements of ARM 17.8.1207. The annual certification shall be submitted along with the annual emission inventory information.

Based on these facts, the Department determined that BPE will be a minor source of emissions as defined under Title V based on a requested federally enforceable permit limit.

III. BACT Determination

A BACT determination is required for each new or modified source. BPE shall install on the new or modified source the maximum air pollution control capability which is technically practicable and economically feasible, except that BACT shall be utilized.

A BACT analysis was not required for the current permit action because the current permit action is considered an administrative permit action.

IV. Emission Inventory

The following table presents the annual potential to emit in tons per year for BPE's North Compressor Station. The PTE for the Dehydration Unit takes into account the VOC emission reductions realized by using a flash tank with zero emissions. Since BPE has taken a restriction of 1,800 hours per year for the emergency flare, the emissions from combusting up to 0.13 MMscf/hr (3.2 MMscfd) of natural gas released from emergency situations have been reduced accordingly.

**Emission Inventory – BPE North Compressor Station**

Source	Tons per Year				
	PM-10	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>
600 bhp Caterpillar Engine G398TA	0.17	11.61	5.79	11.61	0.01
Dehydrator Regenerator Heater (0.2 MMBtu/hr)	0.0067	0.088	0.0048	0.07	0.0005
Dehydration Unit – Regenerator Still vent	0.00	0.00	20.63	0.00	0.00
Flash Tank	0.00	0.00	0.00	0.00	0.00
Fugitive VOC Emissions	0.00	0.00	0.75	0.00	0.00
Utility “Emergency” Flare - Pilot	0.12	1.6	0.088	1.34	1.46
Utility “Emergency” Flare – Product Combustion (Restricted to 1,800 hrs/yr)	0.91	8.16	16.80	44.39	39.89
400 bbl Condensate Storage Tank (TK-1) ---Storage Losses			4.30		
400 bbl Condensate Storage Tank (TK-2) ---Storage Losses			4.30		
Condensate Handling ---Flashing Losses			4.45		
---Loading Losses			6.41		
<b>TOTAL EMISSIONS</b>	<b>1.21</b>	<b>21.46</b>	<b>63.52</b>	<b>57.41</b>	<b>41.36</b>

## **600 bhp Natural Gas-Fired, Rich-burn Engine**

Brake Horsepower: 600 bhp  
Fuel Consumption: 4.09 MMBtu/hr  
Hours of operation: 8760 hr/yr

### PM<sub>10</sub> Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)  
Calculations: 4.09 MMBtu/hr \* 9.50E-03 lb/MMBtu = 0.0388 lb/hr  
0.0388 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.17 ton/yr

### NO<sub>x</sub> Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)  
Calculations: 2.00 gram/bhp-hour \* 600 bhp \* 0.002205 lbs/gram = 2.65 lb/hr  
2.65 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 11.61 ton/yr

### VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)  
Calculations: 1.00 gram/bhp-hour \* 600 bhp \* 0.002205 lbs/gram = 1.323 lb/hr  
1.323 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 5.79 ton/yr

### CO Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)  
Calculations: 2.00 gram/bhp-hour \* 600 bhp \* 0.002205 lbs/gram = 2.65 lb/hr  
2.65 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 11.61 ton/yr

### SO<sub>2</sub> Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)  
Calculations: 4.09 MMBtu/hr \* 5.88E-04 lb/MMBtu = 0.0024 lb/hr  
0.0024 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.01 ton/yr

## **Dehydration Unit**

### **Dehydration Regenerator Heater (0.20 MMBtu/hr)**

Fuel Consumption: 0.2 MMBtu/hr  
0.2 MMBtu/hr / 1000 MMBtu/MMscf = 0.0002 MMscf/hr

#### PM-10 Emissions:

Emission Factor: 7.6 lb/MMscf gas {AP-42, 1.4-2, 7/98}  
Fuel Consumption: 0.0002MMscf/hr {Information from company}  
Calculations: 7.6 lb/MMscf gas \* 0.0002MMscf gas/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.0067 ton/yr

#### NO<sub>x</sub> Emissions:

Emission Factor: 100 lb/MMscf gas {AP-42, 1.4-1, 7/98, small boiler}  
Fuel Consumption: 0.0002MMscf/hr {Information from company}  
Calculations: 100 lb/MMscf gas \* 0.0002MMscf gas/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.088 ton/yr

#### VOC Emissions:

Emission Factor: 5.5 lb/MMscf {AP-42, 1.4-2, 7/98}  
Fuel Consumption: 0.0002MMscf/hr {Information from company}  
Calculations: 5.5 lb/MMscf gas \* 0.0002MMscf gas/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.0048 ton/yr

#### CO Emissions:

Emission Factor: 84 lb/MMscf {AP-42, 1.4-1, 7/98, small boiler}  
Fuel Consumption: 0.0002MMscf/hr {Information from company}  
Calculations: 84lb/MMscf gas \* 0.0002MMscf gas/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.073 ton/yr

#### SO<sub>x</sub> Emissions:

Emission Factor: 0.6 lb/MMscf {AP-42, 1.4-2, 7/98}  
Fuel Consumption: 0.0002MMscf/hr {Information from company}  
Calculations: 0.6 lb/MMscf gas \* 0.0002MMscf gas/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.0005 ton/yr

## Dehydrator Still Vent Emissions

VOC emissions from the Dehydrator Unit were calculated using the GRI-GLYCalc, Version 4.0 program. For detailed input parameters, refer to the permit application.

Hours of operation: 8760 hr/yr  
Max Dry Gas Flow Rate: 3.2 MMscf/day (max design)  
Glycol Recirculation Rate: 1.5 gallons per minute

Dehydrator Regenerator Still Vent – no control

VOC Emissions:

Emission Factor: 4.71 lb/hr (GRI-GLYCalc, Version 4.0)  
Calculations: 4.71 lb/hr \* 8760 hr/yr \* 0.0005 ton/lb = 20.63 ton/yr

Flash Tank

Zero emissions – flash off gas re-introduced into process

## Fugitive VOC Emissions (Permit #2982-00)

'Valves, Connector, Flanges, Pump Seals, Other' are identified in Permit #2982-00. Total = 0.75 ton/yr

## Guyed Utility ("Emergency") Flare

### Flare - Pilot

Pilot burner: 0.003653 MMSCF/hr {Permit #2982-00}

PM-10 Emissions:

Emission Factor: 7.6 lb/MMSCF {AP-42, 1.4-2, 7/98}  
Calculations: 7.6 lb/MMSCF \* 0.003653 MMSCF/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.12 ton/yr

NOx Emissions:

Emission Factor: 100 lb/MMscf gas {AP-42, 1.4-1, 7/98}  
Calculations: 100 lb/MMscf gas \* 0.003653 MMscf/hr \* 8760 hr/yr \* 0.0005 ton/lb = 1.6 ton/yr

VOC Emissions:

Emission Factor: 5.5 lb/MMSCF {AP-42, 1.4-2, 7/98}  
Fuel Consumption: 5.5 \* lb/MMSCF \* 0.003653 MMSCF/hr \* 8760 hr/yr \* 0.0005 ton/lb = 0.088 ton/yr

CO Emissions:

Emission Factor: 84 lb/MMSCF {AP-42, 1.4-1, 7/98}  
Fuel Consumption: 84 \* lb/MMSCF \* 0.003653 MMSCF/hr \* 8760 hr/yr \* 0.0005 ton/lb = 1.34 ton/yr

SOx Emissions:

544.00 ppm H2S  
544 ppm H2S  $\frac{(1 \text{ grain}/(100 \text{ scf} * 16 \text{ ppm}))}{(7000 \text{ grain/lb})} = \frac{0.0049 \text{ lbs H2S}}{100 \text{ scf}} \times \frac{64.06 \text{ lbs SO2}}{34.08 \text{ lb H2S}} = \frac{0.00913 \text{ lbs SO2}}{100 \text{ scf}}$

Emission Factor: 91.3 lb SO2/MMSCF  
91.3 lb SO2/MMSCF \* 0.003653 MMSCF/hr \* 8760 hr/yr \* 0.0005 ton/lb = 1.46 ton/yr

### Flare - Product

Combustion of Natural Gas Product (Emergency Release from facility)

Fuel (Product) Consumption: 3.2 MMscf/day (=0.1333 MMscf/hr or 133.3MMBTU/hr)  
Fuel Type: 0.2% sulfur in the fuel {Permit Application #2982-02}  
**Hours Limitation: 1,800 hours/year**

PM-10 Emissions:

Emission Factor: 7.6 lb/MMSCF {AP-42, 1.4-2, 7/98}  
Calculations: 7.6 lb/MMSCF \* 0.1333 MMSCF/hr \* 1,800 hours/year \* 0.0005 ton/lb = 0.91 ton/yr

NOx Emissions:

Emission Factor: 0.068 lb/MMBTU {AP-42, 13.5-1, 9/91}  
Calculations: 0.068 lb/MMBTU \* 133.3 MMBTU/hr \* 1,800 hours/year \* 0.0005 ton/lb = 8.16 ton/yr

VOC Emissions:

Emission Factor: 0.14 lb/MMBTU {AP-42, 13.5-1, 9/91}  
Calculations: 0.14 lb/MMBTU \* 133.3 MMBTU/hr \* 1,800 hours/year \* 0.0005 ton/lb = 16.80 ton/yr

CO Emissions:

Emission Factor: 0.37 lb/MMBTU {AP-42, 13.5-1, 9/91}  
Calculations: 0.37 lb/MMBTU \* 133.3 MMBTU/hr \* 1,800 hours/year \* 0.0005 ton/lb = 44.39 ton/yr

SOx Emissions:

Emission Factor: 0.2% H<sub>2</sub>S {Permit #2982-02}  
Calculations: 0.1333 MMSCF/hr \* 0.2% H<sub>2</sub>S = 266.67 scf/hr H<sub>2</sub>S  
266.67 scf/hr H<sub>2</sub>S \* 1 lb mol/385 scf = 0.6926 lb mol/hr  
0.6926 lb mol/hr \* 64 lb SO<sub>2</sub> / lb mol = 44.33 lb/hr SO<sub>2</sub>  
  
44.33 lb SO<sub>2</sub>/hr \* 1,800 hr/yr \* 0.0005 ton/lb = 39.89 ton/yr

**400 bbl Condensate Storage Tank (two tanks)**

Hours of Operation: 8760 hr/yr  
Throughput: 2,000,000 gallons/yr (1,000,000 gallons/yr/tank) - provided by BPE

VOC Emissions

Storage Losses

Emission Factor: 8595.96 lb/yr (EPA Tanks, Version 4.0) calculations provided by BPE  
Calculations: 8595.96 lb/yr \* 1 tank \* 0.0005 ton/lb = 4.30 ton/yr/tank

**Condensate Handling**

Flashing Losses

Emission Factor: 0.187 lb VOC/bbl (ProMax process simulation – provided by BPE, conservative estimate of 2,000,000 gal/yr)  
Calculations: 0.187 lb VOC/bbl \* 2,000,000 gal/yr \* 42 gallon/bbl \* 0.187 lb VOC/bbl \* 0.0005 ton/lb = 4.45 ton/yr

Loading Losses

Loading loss (lb/1000 gallons loaded) = 12.46\*S\*P\*M/T (AP-42, 5.2-4, Equation 1 for condensate loading emissions, 6/08),  
Where: S = 0.6 (saturation factor, submerged fill method)  
P = 8.0572 (true vapor pressure of liquid loaded, average psia) – Company information  
M = 53.3515 (molecular weight of vapor, lb/lb-mole) – Company information  
T = 41.62<sup>o</sup>F (temperature of bulk liquid loaded, average <sup>o</sup>F + 460 = <sup>o</sup>R) – Company information

Emission Factor: (12.46 \* 0.6 \* 8.0572 \* 53.3515) / (41.62 + 460) = 6.41 lb/1000 gallons loaded  
Calculations: 6.41 lb/1000 gallons loaded \* 2,000,000 gallon/yr \* 0.0005 ton/lb = 6.41 ton/yr

V. Existing Air Quality

The facility is located in Section 4, Township 9 North, Range 58 East, in Fallon County. Fallon County is unclassifiable/attainment for the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants.

VI. Ambient Air Impact Analysis

The Department determined that the impacts from this permitting action will be minor. The Department believes that the amount of controlled emissions generated by this project will not cause or contribute to a violation of any set ambient air quality standard.

VII. Taking or Damaging Implication Analysis

As required by 2-10-105, MCA, the Department conducted the following private property taking and damaging assessment.

YES	NO	
X		1. Does the action pertain to land or water management or environmental regulation affecting private real property or water rights?
	X	2. Does the action result in either a permanent or indefinite physical occupation of private property?
	X	3. Does the action deny a fundamental attribute of ownership? (ex.: right to exclude others, disposal of property)
	X	4. Does the action deprive the owner of all economically viable uses of the property?
	X	5. Does the action require a property owner to dedicate a portion of property or to grant an easement? [If no, go to (6)].
		5a. Is there a reasonable, specific connection between the government requirement and legitimate state interests?
		5b. Is the government requirement roughly proportional to the impact of the proposed use of the property?
	X	6. Does the action have a severe impact on the value of the property? (consider economic impact, investment-backed expectations, character of government action)
	X	7. Does the action damage the property by causing some physical disturbance with respect to the property in excess of that sustained by the public generally?
	X	7a. Is the impact of government action direct, peculiar, and significant?
	X	7b. Has government action resulted in the property becoming practically inaccessible, waterlogged or flooded?
	X	7c. Has government action lowered property values by more than 30% and necessitated the physical taking of adjacent property or property across a public way from the property in question?
	X	Takings or damaging implications? (Taking or damaging implications exist if YES is checked in response to question 1 and also to any one or more of the following questions: 2, 3, 4, 6, 7a, 7b, 7c; or if NO is checked in response to questions 5a or 5b; the shaded areas)

Based on this analysis, the Department determined there are no taking or damaging implications associated with this permit action.

#### VIII. Environmental Assessment

This current permit action will not result in an increase of emissions from the facility and is considered an administrative action; therefore, an Environmental Assessment is not required.

*Analysis Prepared By:* K. Doran

*Date:* January 15, 2009