

AIR QUALITY PERMIT

Issued To:	Northern Border Pipeline Company	Permit: #2979-02
	Compressor Station No.1	Application Complete: 04/16/04
	P.O. Box 542500	Preliminary Determination Issued: 05/17/04
	Omaha, NE 68154	Department's Decision Issued: 06/02/04
		Permit Final: 6/18/04
		AFS: # 105-0003

An air quality permit, with conditions, is hereby granted to Northern Border Pipeline Company (NBPL), pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

SECTION I: Permitted Facilities

A. Plant Location

Permit #2979-02 is issued to NBPL for the operation of a natural gas turbine and associated equipment located in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 12, Township 33 North, Range 38 East in Valley County.

B. Current Permit Action

On April 16, 2004, the Department of Environmental Quality (Department) received a complete permit application from NBPL for changes to air quality Permit #2979-01. The proposed changes include a modification to the original nitrogen oxide (NO_x) Best Available Control Technology (BACT) determination by the Department. NBPL Source #01 (39,335-horsepower (hp) natural gas turbine) is unable to operate the dry low NO_x combustion system (DLE), determined by the Department to be BACT, every hour and at all conditions for which the turbine operates. The modification proposed would allow NBPL to operate Source #01 up to 750 hours per year while the DLE is not in operation. New carbon monoxide (CO) emissions limits for Source #01 of 460 pounds per hour (lb/hr) when the ambient temperature is 20 degrees Fahrenheit or colder, 56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period replaced Section II.A.2 that limited the operation of Source #01 to running at 80% or greater load when the ambient temperature is below 5 degrees Fahrenheit. The new 109.5 tons/year CO limit would be made enforceable by monitoring a combination of ambient and turbine parameters. Cooper-Rolls, the manufacturer of the turbine, will test the turbine under different operating scenarios to develop a correlation between the monitored parameters and CO emissions. The 15-kilowatt (kW) emergency generator has been removed from the facility.

SECTION II: Conditions and Limitations

A. Emission Limitations

1. NBPL shall operate and properly maintain, for which it was designed, the DLE that is part of the turbine design. Emissions from this turbine shall not exceed the following limits (ARM 17.8.752):

NO_x¹ 40 ppm_{vd}
NO_x¹ 50.0 lb/hr
VOC 3.00 lb/hr

2. NBPL shall not operate Source #01 for more than 750 hours per rolling 12-month time period while the DLE is not in operation. Emissions from this turbine during non-DLE operation shall not exceed the following limits (ARM 17.8.752):

NO_x¹ 78.0 lb/hr
VOC 3.00 lb/hr

3. CO emissions from Source #01 shall not exceed 460 lb/hr for Source #01 when the ambient temperature is 20 degrees Fahrenheit or colder (ARM 17.8.752).
4. CO emissions from Source #01 shall not exceed 56 lb/hr for Source #01 when ambient temperature is 20 degrees Fahrenheit or warmer (ARM 17.8.752).
5. NBPL shall limit the hours of operation, capacity, natural gas consumption, or other parameters (as approved by the Department) of the turbine such that the sum of the CO emissions does not exceed 109.5 tons per rolling 12-month time period. Any calculations used to establish CO emissions shall be approved by the Department (ARM 17.8.752).
6. Minimum stack height for Source #01 shall be 55 feet above ground level (ARM 17.8.752).
7. NBPL shall operate the 245-kilowatt (kW) emergency backup generator engine, only when commercially supplied electrical power is not available or during planned generator maintenance. NBPL may operate this emergency backup generator engine no more than 500 hours per calendar year and shall not operate the generator as part of routine operations (ARM 17.8.749).
8. NBPL shall utilize pipeline quality natural gas in the Cooper Rolls 40,350-hp turbine, the 245-kW emergency backup generator, and the 1.706-million British thermal units per hour (MMBtu/hr) heating boiler (ARM 17.8.752).
9. NBPL shall operate all equipment to provide the maximum air pollution control for which it was designed (ARM 17.8.752).
10. NBPL 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).

¹ NO_x reported as NO₂.

11. NBPL 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).
12. NBPL 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.12 (ARM 17.8.749).

B. Testing Requirements

1. Source #01 shall be tested for NO_x and CO to demonstrate compliance with the NO_x and CO emission limits contained in Sections II.A.1, II.A.2, II.A.3, and II.A.4 on a semiannual basis with a portable analyzer or according to another testing/monitoring schedule as may be approved by the Department (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. NBPL 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). NBPL shall submit the following information annually to the Department by March 1 of each year; the information may be submitted along with the annual emission inventory (ARM 17.8.505).

- a. Hours of operation of the emergency generator.
 - b. Summary report listing the reasons why the emergency generator was operated.
 - c. Hours of operation of Source #01 in non-DLE operation.
 - d. Summary report listing the reasons when and why Source #01 was operated with non-DLE operation.
2. NBPL shall notify the Department of any construction or improvement project conducted pursuant to ARM 17.8.745, that would include a 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 or the addition of a new emission unit. The notice must be submitted to the Department, in writing, 10 days prior to start up 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(1)(d) (ARM 17.8.745).

3. All records compiled in accordance with this permit must be maintained by NBPL 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. NBPL shall document, by month, the hours that Source #01 is operated without the DLE. By the 25th day of each month, NBPL shall total the hours Source #01 is operated without the DLE during the previous 12 months to verify compliance with the limitation in Section II.A.2. A written report of the compliance verification shall be submitted along with annual emission inventory (ARM 17.8.749).
5. NBPL shall document, by month, CO emissions from Source #01. By the 25th day of each month, NBPL shall total the CO emissions from Source #01 during the previous 12 months to verify compliance with the limitation in Section II.A.5. A written report of the compliance verification shall be submitted along with annual emission inventory (ARM 17.8.749).

SECTION III: General Conditions

- A. Inspection – NBPL 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 (CEMS, 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 NBPL fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving NBPL 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 Department’s decision on the application is not final unless 15 days have elapsed and there is no request for a hearing under this

section. The filing of a request for a hearing postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board.

- F. Permit Inspection – As required by ARM 17.8.755, Inspection of Permit, a copy 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 NBPL may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.

Permit Analysis
Northern Border Pipeline Company
Compressor Station No.1
Permit #2979-02

I. Introduction/Process Description

A. Permitted Equipment

The Northern Border Pipeline Company (NBPL) facility consists of the following equipment:

- One 39,335-horsepower (hp) Cooper-Rolls natural gas fired turbine (Source #01);
- One 245-kilowatt (kW) emergency backup generator (Source #02); and
- One 1.67-million British thermal units per hour (MMBtu/hr) natural gas fired heater boiler (Source #04).

B. Source Description

The purpose of the NBPL Compressor Station No. 1 is to compress natural gas for transmission through a natural gas pipeline. The compression of the gas is accomplished with the turbine listed in Section I.A of the permit analysis. The facility is located in the NE¼ of the SE¼ of Section 12, Township 33 North, Range 38 East in Valley County.

C. Permit History

On December 23, 1996, NBPL submitted a complete permit application to construct and operate one 39,335-hp Cooper-Rolls natural gas turbine, one 300-kW emergency backup generator engine, one 1.706-MMBtu/hr heating boiler, and one 15-kW emergency backup generator engine. Permit #2979-00 became final on March 30,1997.

On May 13, 1998, NBPL requested that Permit #2979-00 be modified to accurately reflect the emergency generator engine size of 245-kW. Also, the monitoring requirement in Section II.B.2 was changed from “after issuance of Permit #2979-00” to “after initial startup of the facility.” Permit #2979-01 became final on June 19,1998. Permit #2979-01 replaced Permit #2979-00.

D. Current Permit Action

On April 16, 2004, the Department of Environmental Quality (Department) received a complete permit application from NBPL for changes to air quality Permit #2979-01. The proposed changes include a modification to the original nitrogen oxide (NO_x) Best Available Control Technology (BACT) determination by the Department. NBPL Source #01 (39,335-horsepower (hp) natural gas turbine) is unable to operate the dry low NO_x combustion system (DLE), determined by the Department to be BACT, every hour and at all conditions for which the turbine operates. The modification proposed would allow NBPL to operate Source #01 up to 750 hours per year while the DLE is not in operation. Reasons for non-DLE operation shall include only start-up and shutdown, when operation is required during downstream maintenance requirements, and operation during low ambient temperatures at the site. New carbon monoxide (CO) emissions limits for Source #01 of 460 lb/hr when the ambient temperature is 20 degrees Fahrenheit or colder,

56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period replaced Section II.A.2 that limited the operation of Source #01 to running at 80% or greater load when the ambient temperature is below 5 degrees Fahrenheit. The new 109.5 tons/year CO limit would be made enforceable by monitoring a combination of ambient and turbine parameters. Cooper-Rolls, the manufacturer of the turbine, will test the turbine under different operating scenarios to develop a correlation between the monitored parameters and CO emissions. The 15-kW emergency generator has been removed from the facility. Permit #2979-02 replaces Permit #2979-01.

E. Additional Information

Additional information, such as applicable rules and regulations, 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.

Further, in addition to operating under Montana Air Quality Permit #2979-02, NBPL operates under Title V Operating Permit #OP2979-05. The Title V operating permit includes source-testing requirements on a semiannual basis; therefore, under the current permit action, the Department removed (from the Montana Air Quality Permit) the every 4-year testing requirements for Source #01.

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).

NBPL shall comply with the requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited, 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 4 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 PM₁₀

NBPL 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, NBPL 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 1 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. NBPL will burn natural gas in all 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 60, Standards of Performance for New Stationary Sources (NSPS). Source #01 is an NSPS affected source because it meets the definition of a stationary gas turbine and was manufactured after October 3, 1977 as defined in 40 CFR Part 60, subpart GG.
8. ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source Categories. The source, as defined and applied in 40 CFR 63, shall comply with the requirements of 40 CFR 63, as listed below:

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, the facility must be a major source of Hazardous Air Pollutants (HAP) as determined according to paragraphs (a)(1)(i) through (a)(1)(iii) of 40 CFR 63, Subpart HH. Second, a facility that is determined to be major for HAPs must also either process, upgrade, or store hydrocarbon liquids prior to the point of custody transfer, or 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. Third, 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 first three 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. Based on the information submitted by NBPL, the facility is not subject to the provisions of 40 CFR Part 63, Subpart HH because the facility is not a major source of HAPs.

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 Part 63, shall comply with the standards and provisions of 40 CFR Part 63, Subpart HHH. In order for a natural gas transmission and storage facility to be subject to 40 CFR Part 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 Part 63, Subpart HHH. Second, a facility must contain an affected source (glycol dehydration unit) as defined in paragraph (b) of 40 CFR Part 63, Subpart HHH. Finally, if the first two criteria are met, and the exemptions contained in paragraph (f) of 40 CFR Part 63, Subpart HHH, do not apply, the facility is subject to the applicable provisions of 40 CFR Part 63, Subpart HHH. Based on the information submitted by NBPL, the facility is not subject to the provisions of 40 CFR 63, Subpart HHH because the facility is not a major source of HAPs.

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. NBPL submitted the appropriate permit application fee for the current permit action.
2. ARM 17.8.505 When Permit Required--Exclusions. 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 alteration to construct, alter or use any air contaminant sources that have the Potential to Emit (PTE) greater than 25 tons per year of any pollutant. NBPL has the PTE greater than 25 tons per year of NO_x and CO; 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, alteration or use of a source. NBPL submitted the required permit application for the current permit action. (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. NBPL submitted an affidavit of publication of public notice for the March 10, 2004, issue of the *Glasgow Courier*, a newspaper of general circulation in the Town of Glasgow, MT, in Valley County, as proof of compliance with the public notice requirements.
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 NBPL 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 altered 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 1 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 less than 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 > 100 tons/year of any pollutant;
 - b. PTE > 10 tons/year of any one HAP, PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule; or
 - c. PTE > 70 tons/year of particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) in a serious PM₁₀ nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program. (1) Title V of the FCAA amendments of 1990 require that all sources, as defined in ARM 17.8.1204(1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #2979-02 for NBPL, the following conclusions were made:
- a. The facility's PTE is greater than 100 tons/year of NO_x and CO.
 - 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 PM₁₀ nonattainment area.
 - d. This facility is subject to a current New Source Performance Standard-40 CFR 60, Subpart GG.
 - e. This facility is not subject to any current National Emission Standards for Hazardous Air Pollutant standards.
 - 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.

Based on these facts, the Department determined that NBPL is subject to the Title V operating permit program.

III. BACT Determination

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

A. NO_x

NBPL is not adding a new source or altering an existing source. NBPL proposes a change to the existing NO_x BACT determination made in Permit #2979-00. The current NO_x limit for Source #01 of 40 ppm_{vd} and 50.0 lb/hr is not achievable 8760 hrs/year because the DLE cannot be operated 8760 hrs/year. NBPL proposed an added condition, as a result of this updated NO_x BACT analysis, that would allow Source #01 to operate up to 750 per rolling 12-month time period of non-DLE operation. The corresponding emission limit would be 78 lb/hr. Certain ambient and load conditions occur, beyond the control of NBPL, which make DLE operation infeasible. The change in NO_x emissions would be 10.30 tons/year.

Based on information submitted by NBPL the Department determined that the original BACT determination of DLE technology along with the added condition for non-DLE operation constitutes BACT for NO_x for Source #01.

B. CO

NBPL is not adding a new source or altering an existing source. NBPL proposes a change to the existing CO BACT determination made in Permit #2979-00. A numerical limit for CO was not established; rather a BACT limit was established that stated Source #01 shall take all reasonable measures to operate at 80% load or above when the ambient temperature is below 5 degrees Fahrenheit. NBPL's CO emissions were calculated to be 98.7 tons/year. Load conditions exist beyond the control of NBPL that do not allow NBPL to operate Source #01 at a load 80% or above when the ambient temperature is below 5 degrees Fahrenheit. NBPL proposed new CO emissions limits for Source #01 of 460 lb/hr when the ambient temperature is 20 degrees Fahrenheit or colder, 56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period. These limits replaced the former condition that limited the operation of Source #01 to running at 80% or greater load when the ambient temperature is below 5 degrees Fahrenheit, and CO from Source #01 shall not exceed 109.5 tons per rolling 12-month time period. Compliance with the new ton/year limit would be based on a parametric correlation to be developed by Cooper-Rolls and subsequently approved by the Department. The change in CO emissions would be 11.40 tons/year.

Based on information submitted by NBPL the Department determined that the limits of 460 lb/hr when the ambient temperature is 20 degrees Fahrenheit or colder, 56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period calculated according to the parametric correlation submitted by NBPL and subsequently approved by the Department replaced Section II.A.2 that limited the operation of Source #01 to running at 80% or greater load when the ambient temperature is below 5 degrees Fahrenheit, constitutes BACT for CO for Source #01.

IV. Emission Inventory

		Tons/Year				
Source		PM ₁₀	NO _x	CO	VOC	SO _x
#01	40,350-hp Turbine	19.32	229.50	109.5	13.14	8.76
#02	245-kW Emergency Generator	0.01	2.94	0.37	0.07	0.00
#03	Heating Boiler	0.09	0.75	0.16	0.04	0.00
Total		19.42	233.19	110.03	13.25	8.76

(SOURCE #01)

Cooper-Rolls 39,335-hp Turbine

Brake Horse Power: 39,335
 Hours of Operation: 8,760 hr/yr
 Max Fuel Combustion Rate: 7.038 MBtu/hp-hr and 315 MMBtu/hr
 Fuel Heating Value: 1,000 Btu/SCF or 0.0010 MMSCF/MMBtu (Natural Gas)

PM₁₀ Emissions

Emission Factor: 14.0 lb/MMscf { AFSEF PC-version 9/90, 2-02-002-01 }
 Calculations: 14.0 lb/MMscf * 0.001 Mmscf/MMBtu * 315 MMBtu/hr=4.41 lbs/hr
 4.41 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 19.3 ton/yr

NO_x Emissions

Emission Factor: 50.0 lb/hr {Manufacturer's emission factor based on 40 ppmvd at 15 percent O₂, DLE in operation, BACT Determination}
Calculations: 50.0 lb/hr * 8010 hr/yr * 0.0005 ton/lb = 200.25 ton/yr

Emission Factor: 78.0 lb/hr {Company's emission factor, DLE in Non-operation, BACT Determination}
Calculations: 78.0 lb/hr * 750 hr/yr * 0.0005 ton/lb = 29.25 ton/yr

CO Emissions

Calculations: = 109.5 ton/yr {Based on a correlation between ambient and operational parameters and CO emissions established by Cooper Rolls and subsequently approved by the Department.}

VOC Emissions

Emission Factor: 3.0 lb/hr {Manufacturer's emission factor BACT Determination}
Calculations: 3.0 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 13.1 ton/yr

SO_x Emissions

Emission Factor: 2.0 lb/hr {Manufacturers emission factor at 60% load}
Calculations: 2.0 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 8.76 ton/yr

(SOURCE #02)

Emergency backup generator Engine (300 kW)

Horsepower: 402 hp
Max Fuel Combustion Rate: 3.46 MMBtu/hr
Hours of Operation: 500 hr/yr
Fuel Heating Value: 1,000 Btu/SCF or 0.0010 MMSCF/MMBtu (Natural Gas)

PM₁₀ Emissions

Emission Factor: 10.0 lb/MMSCF {AFSEF PC Version 9/90, 2-01-002-02}
Calculations: 10.0 lb/MMSCF * 0.001 MMSCF/MMBtu * 3.46 MMBtu/hr = 0.035 lb/hr
0.035 lb/hr * 500 hr/yr * 0.0005 ton/lb = 0.009 ton/yr

NO_x Emissions

Emission Factor: 3400.0 lb/MMSCF {AFSEF PC Version 9/90, 2-01-002-02}
Calculations: 3400.0 lb/MMSCF * 0.001 MMSCF/MMBtu * 3.46 MMBtu/hr = 11.76 lb/hr
11.76 lb/hr * 500 hr/yr * 0.0005 ton/lb = 2.94 ton/yr

CO Emissions

Emission Factor: 430.0 lb/MMSCF {AFSEF PC Version 9/90, 2-01-002-02}
Calculations: 430.0 lb/MMSCF * 0.001 MMSCF/MMBtu * 3.46 MMBtu/hr = 1.49 lb/hr
1.49 lb/hr * 500 hr/yr * 0.0005 ton/lb = 0.372 ton/yr

VOC Emissions

Emission Factor: 82.9 lb/MMSCF {AFSEF PC Version 9/90, 2-01-002-02}
Calculations: 82.9 lb/MMSCF * 0.001 MMSCF/MMBtu * 3.46 MMBtu/hr = 0.287 lb/hr
0.287 lb/hr * 500 hr/yr * 0.0005 ton/lb = 0.072 ton/yr

SO_x Emissions

Emission Factor: 0.60 lb/MMSCF {AFSEF PC Version 9/90, 2-01-002-02}
Calculations: 0.60 lb/MMSCF * 0.001 MMSCF/MMBtu * 3.46 MMBtu/hr = 0.002 lb/hr
0.002 lb/hr * 500 hr/yr * 0.0005 ton/lb = 0.001 ton/yr

(SOURCE #03)

Heating Boiler

Max Fuel Combustion Rate: 1.67 MMBtu/hr
Hours of Operation: 8760 hr/yr

PM₁₀ Emissions

Emission Factor: 0.012 lb/MMBtu {AP-42 Table 1.3-1,-2,-3}
Calculations: 0.012 lb/MMBtu * 1.67 MMBtu/hr = 0.020 lb/hr
0.020 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 0.090 ton/yr

NO_x Emissions

Emission Factor: 0.10 lb/MMBtu {AP-42 Table 1.3-1,-2,-3}
Calculations: 0.10 lb/MMBtu * 1.67 MMBtu/hr = 0.171 lb/hr
0.171 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 0.747 ton/yr

CO Emissions

Emission Factor: 0.0210 lb/MMBtu {AP-42 Table 1.3-1,-2,-3}
Calculations: 0.0210 lb/MMBtu * 1.67 MMBtu/hr = 0.036 lb/hr
0.036 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 0.157 ton/yr

VOC Emissions

Emission Factor: 0.0053lb/MMBtu {AP-42 Table 1.3-1,-2,-3}
Calculations: 0.0053 lb/MMBtu * 1.67 MMBtu/hr = 0.009 lb/hr
0.009 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 0.040 ton/yr

SO_x Emissions

Emission Factor: 0.0006lb/MMBtu {AP-42 Table 1.3-1,-2,-3}
Calculations: 0.0006 lb/MMBtu * 1.67 MMBtu/hr = 0.001 lb/hr
0.001 lb/hr * 8760 hr/yr * 0.0005 ton/lb = 0.004 ton/yr

V. Existing Air Quality

NBPL is located in the NE¹/₄ of the SE¹/₄ of Section 12, Township 33 North, Range 38 East in Valley County. Valley County is unclassifiable/attainment for the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants.

VI. Ambient Air Impact Analysis

The current permit modification will result in a minor increase in potential emissions from this source. NBPL conducted air quality modeling using the Industrial Source Complex Short Term (ISCST3) model. The meteorological data used was from National Weather Service Site at the Glasgow International Airport in Glasgow, Montana. Four years (1988-1991) of concurrent Glasgow surface and upper air meteorological data were used to evaluate the potential air quality impacts from the proposed natural gas compressor station. The modeling used a stack height of 55 feet and also took into account the downwash effect from two buildings.

The modeling results showed the maximum 1-hour NO₂ ambient air quality impact was 220 ug/m³ (based on 1988), which is well below the Montana 1-hour standard of 546 ug/m³. Modeling also showed similar results for CO, with a maximum 1-hour CO ambient air quality impact of 5,003 ug/m³, and an 8-hour maximum of 1,988 ug/m³. Again, the values are well below the Montana Ambient Air Quality Standards (MAAQS) of 26,340 ug/m³ (1-hour) and 10,307 ug/m³ (8-hour). The CO modeling was performed at 60% percent load and -40°C ambient temperature, which were worst-case conditions. No refined air quality modeling or monitoring was required.

VII. Taking or Damaging Implication Analysis

As required by 2-10-105, MCA, the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VIII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Permitting and Compliance Division
Air Resources Management Bureau
P.O. Box 200901, Helena, Montana 59620
(406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued To: Northern Border Pipeline Company
Compressor Station No. 1
P.O. Box 542500
Omaha, NE 68154

Air Quality Permit Number: #2979-02

Preliminary Determination Issued: May 17, 2004

Department Decision Issued: June 2, 2004

Permit Final: June 18, 2004

1. *Legal Description of Site:* NBPL Compressor Station No. 1 is located in the NE¹/₄ of the SE¹/₄ of Section 12, Township 33 North, Range 38 East in Valley County. From the intersection of Highway 2 and 24, travel north 24 miles to mile marker #34 and turn left. Traveling 11 miles on a county road, turn and go southwest, and the site is located to the left approximately 5 miles.
2. *Description of Project:* On April 16, 2004, the Department received a complete permit application from NBPL for changes to air quality Permit #2979-01. The proposed changes include a modification to the original nitrogen oxide (NO_x) BACT determination by the Department. NBPL Source #01 (39,335-horsepower (hp) natural gas turbine) is unable to operate the dry low NO_x combustion system (DLE), determined by the Department to be BACT, every hour and at all conditions for which the turbine operates. The modification proposed would allow NBPL to operate Source #01 up to 750 hours per year while the DLE is not in operation. Reasons for non-DLE operation shall include only start-up and shutdown, when operation is required during downstream maintenance requirements, and operation during low ambient temperatures at the site. New carbon monoxide (CO) emissions limits for Source #01 of 460 lb/hr when the ambient temperature is 20 degrees Fahrenheit or colder, 56 lb/hr when the ambient temperature is 20 degrees Fahrenheit or warmer, and 109.5 tons per rolling 12-month time period replaced Section II.A.2 that limited the operation of Source #01 to running at 80% or greater load when the ambient temperature is below 5 degrees Fahrenheit. The new 109.5 tons/year CO limit would be made enforceable by monitoring a combination of ambient and turbine parameters. Cooper-Rolls, the manufacturer of the turbine, will test the turbine under different operating scenarios to develop a correlation between the monitored parameters and CO emissions.
3. *Objectives of Project:* The proposed project would provide NBPL the opportunity to operate Compressor Station No. 1 in compliance with all conditions listed in Permit #2979-02. NBPL is unable to operate Compressor Station No. 1 in compliance with all conditions listed in Permit #2979-01 on all occasions.
4. *Alternatives Considered:* In addition to the proposed action, the Department also considered the "no-action" alternative. The "no-action" alternative would deny issuance of the Air Quality Preconstruction Permit to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because NBPL demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.

5. *A Listing of Mitigation, Stipulations, and Other Controls:* A list of enforceable conditions, including a BACT analysis, would be included in Permit #2979-02.
6. *Regulatory Effects on Private Property:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined that the permit conditions are reasonably necessary to ensure compliance with applicable requirements and demonstrate compliance with those requirements and do not unduly restrict private property rights.
7. The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A	Terrestrial and Aquatic Life and Habitats			X			Yes
B	Water Quality, Quantity, and Distribution			X			Yes
C	Geology and Soil Quality, Stability, and Moisture			X			Yes
D	Vegetation Cover, Quantity, and Quality			X			Yes
E	Aesthetics				X		Yes
F	Air Quality			X			Yes
G	Unique Endangered, Fragile, or Limited Environmental Resources			X			Yes
H	Demands on Environmental Resource of Water, Air, and Energy			X			Yes
I	Historical and Archaeological Sites			X			Yes
J	Cumulative and Secondary Impacts			X			Yes

SUMMARY OF COMMENTS ON POTENTIAL PHYSICAL AND BIOLOGICAL EFFECTS: The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Minor impacts on terrestrial or aquatic life and habitats would be expected from the proposed changes in operating conditions because deer, antelope, coyotes, geese, ducks, and other terrestrials would potentially use the area around the facility and because the facility would be a source of air pollutants. The facility would potentially emit additional air pollutants and corresponding deposition of pollutants would occur. However, as described in Section 7.F. of this EA, the Department determined that any impacts from deposition would be minor. Any impacts on terrestrial and aquatic life and habitats would be minor due to the relatively small increase in emissions over existing levels. Overall, any impacts to terrestrial and aquatic life and habitats would be minor.

B. Water Quality, Quantity, and Distribution

Minor impacts would be expected on water quality, quantity, and distribution from the proposed changes in operating conditions because the proposed changes in operating conditions would potentially generate additional air pollutants. Minor amounts of water may be required to control fugitive dust emissions from the access roads and the general

facility property. The facility would emit air pollutants and corresponding deposition of pollutants would occur, however, as described in Section 7.F. of this EA, the Department determined that the chance of deposition of the additional pollutants impacting water quality, quantity, and distribution would be minor.

C. Geology and Soil Quality, Stability, and Moisture

Minor impacts would occur on the geology and soil quality, stability, and moisture from the proposed project but no construction would be required to develop the facility. No discharges, other than additional air emissions, would occur at the facility. Any impacts to the geology and soil quality, stability, and moisture would be minor due to the relatively small increase in emissions over existing levels.

Deposition of pollutants would occur; however, as described in Section 7.F of this EA, the Department determined that the chance of deposition of pollutants impacting the geology and soil in the areas surrounding the site would be minor. Overall, any impacts to the geology and soil quality, stability, and moisture would be minor.

D. Vegetation Cover, Quantity, and Quality

Minor impacts would occur on vegetation cover, quantity, and quality, but no construction would be required to develop the facility.

In addition, no discharges, other than additional air emissions, would occur at the facility. Any impacts to the vegetation cover, quantity, and quality would be minor due to the relatively small increase in emissions over existing levels.

The facility would be a source of air pollutants, and corresponding deposition of pollutants would occur; however, as described in Section 7.F of this EA, the Department determined that the chance of deposition of pollutants impacting the vegetation in the area surrounding the site would be minor. Overall, any impacts to vegetation cover, quantity, and quality would be minor.

E. Aesthetics

No aesthetic impacts would result because the look of the facility would not be changing. Overall, there would be no aesthetic impacts from the proposed changes in operating conditions.

F. Air Quality

The air quality of the area would realize minor impacts from the proposed project because the facility would emit the following air pollutants: PM₁₀, NO_x, CO, VOC, and SO_x. Deposition of these pollutants may occur. However, the Department determined that any impacts from deposition would be minor due to dispersion characteristics of pollutants (stack height, stack temperature, etc.), the surrounding atmosphere (wind speed, wind direction, ambient temperature, etc.), and conditions placed in Permit #2979-02. The pollutants emitted from NBPL would be widely dispersed prior to deposition on any water, soil, or vegetation. Conditions would include, but would not be limited to BACT emission limits for NO_x, CO, and for VOC.

G. Unique Endangered, Fragile, or Limited Environmental Resources

In an effort to identify any unique endangered, fragile, or limited environmental resources in the area, the Department contacted the Montana Natural Heritage Program, Natural Resource Information System (NRIS). The NRIS search identified no species of special concern in the area of the facility. In this case, the area was defined by the section, township, and range of the proposed location with an additional 1-mile buffer zone. Due to the fact that this is an existing facility and the relatively low levels of pollutants that would be emitted, the Department determined that it would be unlikely that the proposed project would impact any species of special concern and that any potential impacts would be minor.

H. Demands on Environmental Resource of Water, Air, and Energy

The proposed changes in operating conditions would have minor impacts on the demands for the environmental resources of air and water because the facility would be a source of additional air pollutants. Deposition of pollutants would occur as a result of operating the facility; however, as explained in Section 7.F of this EA, the Department determined that any impacts on air and water resources from the pollutants (including deposition) would be minor.

The proposed project would be expected to have minor impacts on the demand for the environmental resource of energy because power would be required at the site and water because it may be required for dust suppression. The impact on the demand for the environmental resource of energy would be minor because the facility would be relatively small by industrial standards and would use a non-renewable resource. Overall, the impacts for the demands on the environmental resources of water, air, and energy would be minor.

I. Historical and Archaeological Sites

In an effort to identify any historical and archaeological sites located near the proposed project area, the Department contacted the Montana Historical Society, State Historic Preservation Office (SHPO). According to SHPO records, there are not any previously recorded historic or archaeological sites within the proposed area. However, SHPO stated that the absence of cultural properties in the area does not mean that they do not exist, but may reflect a lack of previous cultural resource inventories in the area. The Department determined that the chance of the project impacting any historical and archaeological sites in the area would be minor due to the fact that this is an existing facility with no new ground disturbance and no additional equipment is being proposed.

J. Cumulative and Secondary Impacts

The cumulative and secondary impacts from this project on the physical and biological aspects of the human environment in the immediate area would be minor due to the relatively small size of the additional air emissions. There would be no additional noise impacts because the facility would not be changing. There is potential for other operations to locate near the site that the facility uses. However, any operations would have to apply for and receive the appropriate permits from the Department prior to operation. These permits would address the environmental impacts associated with the operations at the proposed site. Overall, the Department believes that this facility could be expected to operate in compliance with all applicable rules and regulations as would be outlined in Permit #2979-02 and any impacts to the physical and biological environment would be minor.

8. The following table summarizes the potential economic and social effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A	Social Structures and Mores			X			Yes
B	Cultural Uniqueness and Diversity			X			Yes
C	Local and State Tax Base and Tax Revenue				X		Yes
D	Agricultural or Industrial Production				X		Yes
E	Human Health			X			Yes
F	Access to and Quality of Recreational and Wilderness Activities				X		Yes
G	Quantity and Distribution of Employment				X		Yes
H	Distribution of Population				X		Yes
I	Demands for Government Services			X			Yes
J	Industrial and Commercial Activity				X		Yes
K	Locally Adopted Environmental Plans and Goals				X		Yes
L	Cumulative and Secondary Impacts				X		Yes

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS: The following comments have been prepared by the Department:

- A. Social Structures and Mores
- B. Cultural Uniqueness and Diversity

The proposed project would cause minor, if any, impacts to native or traditional lifestyles or communities (social structures or mores), and cultural uniqueness and diversity in the area because the proposed change in operating conditions would take place in a relatively remote location and the facility is relatively small by industrial standards. Overall, any impacts to the social structures and mores, and cultural uniqueness and diversity in the area would be minor.

- C. Local and State Tax Base and Tax Revenue

The proposed project would result in no impacts to the local and state tax base and tax revenue because no new employees would be hired as a result of the change in operating conditions of the facility and no new equipment would be added that might generate property taxes.

- D. Agricultural or Industrial Production

The land at the location is rural agricultural grazing land. The proposed change in operating conditions would result in no additional disturbance of rural agricultural grazing land. The proposed project would have no impacts to industrial production because the proposed project would be a change in operating conditions for an existing industrial source locating in the area. The facility would emit additional air pollutants and corresponding deposition of pollutants would occur. However, as Section 7.F of this EA explains, the Department determined that the chance of deposition of pollutants impacting agricultural or industrial production in the area surrounding the site would be minor. Overall, impacts to agricultural or industrial production would be minor.

E. Human Health

The proposed change in operating conditions would result in only minor, if any, impacts to human health. As explained in Section 7.F of this EA, deposition of pollutants would occur; however, the Department determined that the proposed project would comply with all applicable air quality rules, regulations, and standards. These rules, regulations, and standards are designed to be protective of human health.

F. Access to and Quality of Recreational and Wilderness Activities

The proposed change in operating conditions would create no new impacts on access to recreational and wilderness activities because of the relatively remote location and the relatively small size of the existing facility. The proposed change in operating conditions would have no additional impacts on the quality of recreational and wilderness activities in the area because the facility is existing.

G. Quantity and Distribution of Employment

The proposed change in operating conditions would have no impact on the quantity and distribution of employment because no new permanent employees would be hired as a result of the proposed project. Current NBPL employees would be responsible for the day-to-day operation of the facility.

H. Distribution of Population

The proposed change in operating conditions would have no impacts on the distribution of population in the area because the facility would be located in a relatively remote location and the proposed change in operating conditions would create no new permanent jobs. Therefore, no people would be moving to the area for employment opportunities.

I. Demands for Government Services

There would be minor impacts on the demands for government services because additional time would be required by government agencies to issue Permit #2979-02 and to assure compliance with applicable rules, standards, and Permit #2979-02. Overall, any demands for government services to regulate the facility or activities associated with the facility would be minor due to the proposed change in operating conditions of the existing facility.

J. Industrial and Commercial Activity

No additional industrial or commercial activity would result solely from the operation of the facility. No impacts to industrial and commercial activities in the area would occur.

K. Locally Adopted Environmental Plans and Goals

The Department is not aware of any locally adopted environmental plans and goals that would be affected by issuing Permit # 2979-02. The state standards would protect the proposed site and the environment surrounding the site.

L. Cumulative and Secondary Impacts

Overall, no cumulative and secondary impacts from this project would occur and no impacts would occur to the economic and social aspects of the human environment in the immediate area. Due to the relatively small size of the proposed change in operating conditions, the industrial production, employment, and tax revenue (etc.) no changes resulting from the proposed project would occur.

Recommendation: No EIS is required.

The current permitting action is for the proposed change in operating conditions of a natural gas booster station. Permit #2979-02 includes conditions and limitations to ensure the facility will operate in compliance with all applicable rules and regulations. In addition, there are no significant impacts associated with this proposal.

Other groups or agencies contacted or which may have overlapping jurisdiction: Montana Historical Society – State Historic Preservation Office, Natural Resource Information System – Montana Natural Heritage Program

Individuals or groups contributing to this EA: Department of Environmental Quality – Air Resources Management Bureau, Montana Historical Society – State Historic Preservation Office, Natural Resource Information System – Montana Natural Heritage Program

EA prepared by: Chris Ames

Date: 5/7/04