



Montana Department of
ENVIRONMENTAL QUALITY

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January 28, 2013

Ron Lowney
WBI Energy Midstream, LLC
2010 Montana Avenue
Glendive, Montana 59330

Dear Mr. Lowney:

Montana Air Quality Permit #3386-01 is deemed final as of January 26, 2013, 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,

Julie Merkel
Air Permitting Supervisor
Air Resources Management Bureau
(406) 444-3626

Tashia Love
Environmental Science Specialist
Air Resources Management Bureau
(406) 444-5280

JM:TL
Enclosure

Montana Department of Environmental Quality
Permitting and Compliance Division

Montana Air Quality Permit #3386-01

WBI Energy Midstream, LLC
2010 Montana Avenue
Glendive, MT 59330

January 26, 2013



MONTANA AIR QUALITY PERMIT

Issued To: WBI Energy Midstream, LLC
Montana Royalty #3 Battery
2010 Montana Avenue
Glendive, MT 59330

Permit: #3386-01
Administrative Amendment (AA)
Received: 12/10/2012
Department's Decision on AA: 01/10/2013
Permit Final: 01/26/2013
AFS: #003-0029

A Montana Air Quality Permit (MAQP), with conditions, is hereby granted to WBI Energy Midstream, LLC (WBI), 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

The facility is located approximately eleven miles northeast of Decker, Montana, in the SE¼ of Section 3, Township 9 South, Range 41 East, in Big Horn County, Montana.

B. Current Permit Action

The Department of Environmental Quality (Department) received a letter from WBI on December 10, 2012, requesting an administrative amendment to change their name from Bitter Creek Pipelines, LLC to WBI Energy Midstream, LLC. In addition to the name change, the permit action updates the permit to reflect current permit language and rule references used by the Department.

SECTION II: Conditions and Limitations

A. Emission Limitations

1. WBI shall not operate more than three compressor engines at any one time at the Montana Royalty #3 Battery (ARM 17.8.749).
2. The maximum rated design capacity of the Montana Royalty #3 Battery shall not exceed 1,720 horsepower (hp) and the maximum rated design capacity of each individual compressor engine shall not exceed 860 hp. The Montana Royalty #3 Battery may use only rich-burn Waukesha 3524GSI, rich-burn Caterpillar 3408TA, lean-burn Waukesha F18GL, lean-burn Caterpillar G3508LE, lean-burn Caterpillar 3512LE, and lean-burn Ajax 2802LE compressor engines (ARM 17.8.749).
3. The 840-hp Waukesha 3524GSI shall be controlled with a non-selective catalytic reduction (NSCR) unit and an air-to-fuel (AFR) controller. The pound per hour (lb/hr) emission limits for each 840-hp Waukesha 3524GSI engine shall be (ARM 17.8.752):

NO _x	1.85 lb/hr
CO	3.70 lb/hr
VOC	1.85 lb/hr
4. The 400-hp Caterpillar 3408TA shall be controlled with an NSCR and AFR controller. The lb/hr emission limits for each 400-hp Caterpillar 3408TA engine shall be (ARM 17.8.752):

NO _x	0.88 lb/hr
CO	1.76 lb/hr
VOC	0.88 lb/hr

5. The 400-hp Waukesha F18GL shall be controlled with an oxidation catalyst. The lb/hr emission limits for each 400-hp Waukesha F18GL engine shall be (ARM 17.8.752):

NO _x	0.88 lb/hr
CO	0.44 lb/hr
VOC	0.88 lb/hr

6. The lb/hr emission limits for each of the 316-hp Ajax 2802LE shall be (ARM 17.8.752):

NO _x	0.70 lb/hr
CO	1.46 lb/hr
VOC	0.70 lb/hr

7. The 860-hp Caterpillar 3512LE shall be controlled with an oxidation catalyst and an AFR controller. The lb/hr emission limits for each 860-hp Caterpillar 3512LE engine shall be (ARM 17.8.752):

NO _x	2.85 lb/hr
CO	0.94 lb/hr
VOC	1.90 lb/hr

8. The 633-hp Caterpillar G3508LE shall be controlled with an oxidation catalyst. The lb/hr emission limits for each 633-hp Caterpillar G3508LE engine shall be (ARM 17.8.752):

NO _x	2.79 lb/hr
CO	0.70 lb/hr
VOC	1.40 lb/hr

9. WBI 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 six consecutive minutes (ARM 17.8.304).
10. WBI 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).
11. WBI 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.10 (ARM 17.8.749).

B. Testing Requirements

1. Waukesha 3524GSI compressor engine(s) shall be initially tested for nitrogen oxides (NO_x) and carbon monoxide (CO), concurrently, to demonstrate compliance with the emission limits contained in Section II.A.3. The initial source testing shall be

conducted within 180 days of the initial start up date of the compressor engine(s). After the initial source test, additional testing shall continue on an every four-year basis or according to another testing/monitoring schedule as may be approved by the Department of Environmental Quality (Department) (ARM 17.8.105 and ARM 17.8.749).

2. Caterpillar 3408TA compressor engine(s) shall be initially tested for NO_x and CO, concurrently, to demonstrate compliance with the emission limits contained in Section II.A.4. The initial source testing shall be conducted within 180 days of the initial start up date of the compressor engine(s). After the initial source test, additional testing shall continue on an every four-year basis or according to another testing/monitoring schedule as may be approved by the Department (ARM 17.8.105 and ARM 17.8.749).
3. Ajax 2802LE compressor engine(s) shall be initially tested for NO_x and CO, concurrently, to demonstrate compliance with the emission limits contained in Section II.A.5. The initial source testing shall be conducted within 180 days of the initial start up date of the compressor engine(s). After the initial source test, additional testing shall continue on an every four-year basis or according to another testing/monitoring schedule as may be approved by the Department (ARM 17.8.105 and ARM 17.8.749).
4. Caterpillar 3512LE compressor engine(s) shall be initially tested for NO_x and CO, concurrently, to demonstrate compliance with the emission limits contained in Section II.A.6. The initial source testing shall be conducted within 180 days of the initial start up date of the compressor engine(s). After the initial source test, additional testing shall continue on an every four-year basis or according to another testing/monitoring schedule as may be approved by the Department (ARM 17.8.105 and ARM 17.8.749).
5. Caterpillar G3508LE compressor engine(s) shall be initially tested for NO_x and CO, concurrently, to demonstrate compliance with the emission limits contained in Section II.A.7. The initial source testing shall be conducted within 180 days of the initial start up date of the compressor engine(s). After the initial source test, additional testing shall continue on an every four-year basis or according to another testing/monitoring schedule as may be approved by the Department (ARM 17.8.105 and ARM 17.8.749).
6. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
7. The Department may require further testing (ARM 17.8.105).

C. Operational Reporting Requirements

1. WBI 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. WBI 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, ten 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 WBI as a permanent business record for at least five 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).

SECTION III: General Conditions

- A. Inspection – WBI 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 WBI fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving WBI 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 the Board does not issue a stay, 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 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 WBI may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Construction Commencement – Construction must begin within three years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (ARM 17.8.762).

Montana Air Quality Permit (MAQP) Analysis
WBI Energy Midstream, LLC
Montana Royalty #3 Battery
Permit #3386-01

I. Introduction/Process Description

WBI Energy Midstream, LLC (WBI) is permitted for the construction and operation of the Montana Royalty #3 Battery. The facility is a natural gas compressor station located approximately 11 miles northeast of Decker, Montana, in the SE¼ of Section 3, Township 9 South, Range 41 East, in Big Horn County, Montana.

A. Permitted Equipment

The facility consists of not more than three compressor engines with a total maximum rated design capacity of 1,720 horsepower (hp) and the maximum rated design capacity of each individual compressor engine shall not exceed 860 hp. The facility may include any combination of Waukesha 3524GSI, Caterpillar 3408TA, Waukesha F18GL, Caterpillar G3508LE, Caterpillar 3512LE, and Ajax 2802LE compressor engines. This permit does not allow the use of other engine models.

B. Source Description

The Montana Royalty #3 Battery compresses and transports natural gas from the nearby gas field. The natural gas fired compressor engine compresses the gas for transmission through the pipeline.

C. Permit History

On August 12, 2005, the Department of Environmental Quality (Department) issued **MAQP #3386-00** to WBI for the construction and operation of the WBI – Montana State 36 Battery Compressor Station. This facility is a natural gas compressor station..

D. Current Permit Action

The Department received a letter from WBI on December 10, 2012, requesting an administrative amendment to change their name from Bitter Creek Pipelines, LLC to WBI Energy Midstream, LLC. In addition to the name change, the permit action updates the permit to reflect current permit language and rule references used by the Department. **MAQP #3386-01** replaces MAQP #3386-00.

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 of Environmental Quality (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).

WBI 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 PM₁₀

WBI 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 six 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 (PM). (2) Under this rule, WBI shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne PM.

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 PM 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 PM 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. WBI 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 60, Standards of Performance for New Stationary Sources (NSPS). This facility is not an NSPS affected source because it does not meet the definition of any NSPS subpart defined in 40 CFR 60.

The Montana Royalty #3 Battery is not an NSPS affected source because it does not meet the definition of a natural gas processing plant defined in 40 CFR 60, Subpart KKK. In addition, 40 CFR 60, Subpart LLL is not applicable to the Montana Royalty #3 Battery because the facility does not utilize a sweetening unit to process sour gas.

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 (HAPs) 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 WBI, 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. Second, 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. Third, 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 three 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 WBI, the facility is not subject to the provisions of 40 CFR 63, Subpart HHH because the facility is not a major source of HAPs.

40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines. Owners or operators of facilities that utilize reciprocating internal combustion engines and that are a major source of HAPs, as defined and applied in 40 CFR Part 63, shall comply with the standards and provisions of 40 CFR Part 63, Subpart ZZZZ. In order for a facility that utilizes a reciprocating internal combustion engine to be subject to 40 CFR Part 63, Subpart ZZZZ requirements, certain criteria must be met. The reciprocating internal combustion engines must have a maximum rated design capacity greater than 500-hp and the facility must be a major source of HAPs. Based on the information submitted by WBI, the facility is not subject to the provisions of 40 CFR 63, Subpart ZZZZ because although the facility may utilize one reciprocating internal combustion engine with a maximum rated design capacity greater than 500-hp, the facility is not a major source of HAPs.

- D. ARM 17.8, Subchapter 4 – Stack Height and Dispersion Techniques, including, but not limited to:
1. ARM 17.8.401 Definitions. This rule includes a list of definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 2. ARM 17.8.402 Requirements. WBI must demonstrate compliance with the ambient air quality standards with a stack height that does not exceed Good Engineering Practices (GEP). The proposed heights of the new or altered stacks for WBI are below the allowable 65-meter GEP stack height. No stack modifications are included in this permit action.
- E. 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. A permit fee is not required for the current permit action because the action is considered an administrative permit change.

2. ARM 17.8.505 Air Quality Permit 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.

F. 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. The Montana Royalty #3 Battery has a PTE greater than 25 tons per year of carbon monoxide (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. WBI 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. An affidavit of publication of public notice was not required for the current permit action because the permit change is considered an administrative permit change.
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 Best Available Control Technology (BACT) shall be utilized. The BACT analysis is included in Section III of this permit analysis.
8. ARM 17.8.755 Inspection of Permit. This rule requires that the Department shall make air quality permits available for inspection 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 WBI 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 17.8.762 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 one year after the permit is issued.
 12. 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).
 13. 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.
 14. 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.
- G. 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).

H. 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 per year (tpy) of any pollutant;
 - b. PTE > 10 tpy of any one HAP, PTE > 25 tpy of a combination of all HAPs, or lesser quantity as the Department may establish by rule; or
 - c. PTE > 70 tpy 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 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 #3386-01 for WBI, the following conclusions were made:
 - a. The facility's PTE is less than 100 tpy for any pollutant.
 - b. The facility's PTE is less than 10 tpy for any one HAP and less than 25 tpy for all HAPs.
 - c. This source is not located in a serious PM₁₀ nonattainment area.
 - d. This facility is not subject to any current NSPS.
 - e. This facility is not subject to any current NESHAP standards.
 - f. This source is not a Title IV affected source, nor a solid waste combustion unit.
 - g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that the Montana Royalty #3 Battery is a minor source of emissions as defined under Title V.

III. BACT Determination

A BACT determination is required for each new or altered source. WBI shall install on the new or altered 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 an administrative amendment. A BACT analysis was submitted by WBI in Permit Application #3386-00, addressing some available methods of controlling emissions from the sources used at the Montana Royalty #3 Battery.

IV. Emission Inventory

Source	Ton/year				
	PM ₁₀	NO _x	VOC	CO	SO _x
860-hp Caterpillar 3512LE	0.27	12.46	8.31	4.15	0.02
840-hp Waukesha 3524GSI	0.27	8.11	8.11	16.23	0.02
633-hp Caterpillar G3508LE	0.20	12.23	6.11	3.06	0.01
400-hp Caterpillar G3408TA	0.13	3.86	3.86	7.73	0.01
400-hp Waukesha F18GL	0.13	3.86	3.86	1.93	0.01
316-hp Ajax 2802LE	0.10	3.05	3.05	6.11	0.01
Hypothetical Maximum					
1,720-hp Engine	0.55	33.22	16.61	33.22	0.03

860-hp Caterpillar 3512LE Compressor Engine

Brake Horsepower: 860 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 6.42 MMBtu/hr (Maximum Design)
Calculations: 6.42 MMBtu/hr * 9.50E-03 lb/MMBtu = 0.06 lb/hr
0.06 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 0.27 ton/yr

NO_x Emissions

Emission factor: 1.50 gram/bhp-hour (BACT Determination)
Calculations: 1.50 gram/bhp-hour * 860 hp * 0.002205 lb/gram = 2.85 lb/hr
2.85 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 12.46 ton/yr

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: 1.00 gram/bhp-hour * 860 hp * 0.002205 lb/gram = 1.90 lb/hr
1.90 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 8.31 ton/yr

CO Emissions

Emission factor: 0.50 gram/bhp-hour (BACT Determination)
Calculations: 0.50 gram/bhp-hour * 860 hp * 0.002205 lb/gram = 0.95 lb/hr
0.95 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 4.15 ton/yr

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 6.42 MMBtu/hr (Maximum Design)
Calculations: 6.42 MMBtu/hr * 5.88E-04 lb/MMBtu = 0.00 lb/hr
0.00 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 0.02 ton/yr

840-hp Waukesha 3524GSI Compressor Engine

Brake Horsepower: 840 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 6.57 MMBtu/hr (Maximum Design)
Calculations: 6.57 MMBtu/hr * 9.50E-03 lb/MMBtu = 0.06 lb/hr
0.06 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 0.27 ton/yr

NO_x Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: 1.00 gram/bhp-hour * 840 hp * 0.002205 lb/gram = 1.85 lb/hr
1.85 lb/hr * 8,760 hr/yr * 0.0005 ton/lb = 8.11 ton/yr

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 840 \text{ hp} * 0.002205 \text{ lb/gram} = 1.85 \text{ lb/hr}$
 $1.85 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 8.11 \text{ ton/yr}$

CO Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.00 \text{ gram/bhp-hour} * 840 \text{ hp} * 0.002205 \text{ lb/gram} = 3.70 \text{ lb/hr}$
 $3.70 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 16.23 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 6.57 MMBtu/hr (Maximum Design)
Calculations: $6.57 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.00 \text{ lb/hr}$
 $0.00 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.02 \text{ ton/yr}$

633-hp Caterpillar G3508LE Compressor Engine

Brake Horsepower: 633 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 4.80 MMBtu/hr (Maximum Design)
Calculations: $4.80 \text{ MMBtu/hr} * 9.50\text{E-}03 \text{ lb/MMBtu} = 0.05 \text{ lb/hr}$
 $0.05 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.20 \text{ ton/yr}$

NO_x Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.00 \text{ gram/bhp-hour} * 633 \text{ hp} * 0.002205 \text{ lb/gram} = 2.79 \text{ lb/hr}$
 $2.79 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 8.11 \text{ ton/yr}$

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 633 \text{ hp} * 0.002205 \text{ lb/gram} = 1.40 \text{ lb/hr}$
 $1.40 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 6.11 \text{ ton/yr}$

CO Emissions

Emission factor: 0.50 gram/bhp-hour (BACT Determination)
Calculations: $0.50 \text{ gram/bhp-hour} * 633 \text{ hp} * 0.002205 \text{ lb/gram} = 0.70 \text{ lb/hr}$
 $0.70 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 16.23 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 4.80 MMBtu/hr (Maximum Design)
Calculations: $4.80 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.00 \text{ lb/hr}$
 $0.00 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.02 \text{ ton/yr}$

400-hp Caterpillar G3408TA Compressor Engine

Brake Horsepower: 400 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 3.02 MMBtu/hr (Maximum Design)
Calculations: $3.02 \text{ MMBtu/hr} * 9.50\text{E-}03 \text{ lb/MMBtu} = 0.03 \text{ lb/hr}$
 $0.03 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.13 \text{ ton/yr}$

NO_x Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 0.88 \text{ lb/hr}$
 $0.88 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.86 \text{ ton/yr}$

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 0.88 \text{ lb/hr}$
 $0.88 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.86 \text{ ton/yr}$

CO Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.00 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 1.76 \text{ lb/hr}$
 $1.76 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 7.73 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 3.02 MMBtu/hr (Maximum Design)
Calculations: $3.02 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.00 \text{ lb/hr}$
 $0.00 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.01 \text{ ton/yr}$

400-hp Waukesha F18GL Compressor Engine

Brake Horsepower: 400 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 2.86 MMBtu/hr (Maximum Design)
Calculations: $2.86 \text{ MMBtu/hr} * 9.50\text{E-}03 \text{ lb/MMBtu} = 0.03 \text{ lb/hr}$
 $0.03 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.13 \text{ ton/yr}$

NO_x Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 0.88 \text{ lb/hr}$
 $0.88 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.86 \text{ ton/yr}$

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 0.88 \text{ lb/hr}$
 $0.88 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.86 \text{ ton/yr}$

CO Emissions

Emission factor: 0.50 gram/bhp-hour (BACT Determination)
Calculations: $0.50 \text{ gram/bhp-hour} * 400 \text{ hp} * 0.002205 \text{ lb/gram} = 0.44 \text{ lb/hr}$
 $0.44 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 1.93 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 2.86 MMBtu/hr (Maximum Design)
Calculations: $2.86 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.00 \text{ lb/hr}$
 $0.00 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.01 \text{ ton/yr}$

316-hp Ajax 2802LE Compressor Engine

Brake Horsepower: 316 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 2.46 MMBtu/hr (Maximum Design)
Calculations: $2.46 \text{ MMBtu/hr} * 9.50\text{E-}03 \text{ lb/MMBtu} = 0.02 \text{ lb/hr}$
 $0.02 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.10 \text{ ton/yr}$

NO_x Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 316 \text{ hp} * 0.002205 \text{ lb/gram} = 0.70 \text{ lb/hr}$
 $0.70 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.05 \text{ ton/yr}$

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 316 \text{ hp} * 0.002205 \text{ lb/gram} = 0.70 \text{ lb/hr}$
 $0.70 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 3.05 \text{ ton/yr}$

CO Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.00 \text{ gram/bhp-hour} * 316 \text{ hp} * 0.002205 \text{ lb/gram} = 1.39 \text{ lb/hr}$
 $1.46 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 6.11 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 2.46 MMBtu/hr (Maximum Design)
Calculations: $2.46 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.00 \text{ lb/hr}$
 $0.00 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.01 \text{ ton/yr}$

OR Worst Case (Hypothetical)

1,720-hp Compressor Engine

Brake Horsepower: 1,720 hp
Hours of operation: 8,760 hr/yr

PM₁₀ Emissions

Emission Factor: 9.50E-03 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 13.14 MMBtu/hr (Maximum Design)
Calculations: $13.14 \text{ MMBtu/hr} * 9.50\text{E-}03 \text{ lb/MMBtu} = 0.13 \text{ lb/hr}$
 $.0013 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.55 \text{ ton/yr}$

NO_x Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.00 \text{ gram/bhp-hour} * 1,720 \text{ hp} * 0.002205 \text{ lb/gram} = 7.59 \text{ lb/hr}$
 $7.59 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 33.22 \text{ ton/yr}$

VOC Emissions

Emission factor: 1.00 gram/bhp-hour (BACT Determination)
Calculations: $1.00 \text{ gram/bhp-hour} * 1,720 \text{ hp} * 0.002205 \text{ lb/gram} = 3.79 \text{ lb/hr}$
 $3.79 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 16.61 \text{ ton/yr}$

CO Emissions

Emission factor: 2.00 gram/bhp-hour (BACT Determination)
Calculations: $2.0 \text{ gram/bhp-hour} * 1,720 \text{ hp} * 0.002205 \text{ lb/gram} = 7.59 \text{ lb/hr}$
 $7.59 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 33.22 \text{ ton/yr}$

SO₂ Emission

Emission factor: 5.88E-04 lb/MMBtu (AP-42, Chapter 3, Table 3.2-3, 7/00)
Fuel Consumption: 13.14 MMBtu/hr (Maximum Design)
Calculations: $13.14 \text{ MMBtu/hr} * 5.88\text{E-}04 \text{ lb/MMBtu} = 0.01 \text{ lb/hr}$
 $0.01 \text{ lb/hr} * 8,760 \text{ hr/yr} * 0.0005 \text{ ton/lb} = 0.03 \text{ ton/yr}$

V. Existing Air Quality

The facility is located approximately eleven miles northeast of Decker, Montana, in the SE¹/₄ of Section 3, Township 9 South, Range 41 East, in Big Horn County, Montana. The air quality of this area is classified as either better than National Standards or unclassifiable/attainment for the National Ambient Air Quality Standards (NAAQS) for criteria pollutants.

VI. Ambient Air Impact Analysis

The Department believes there will not be an impact from this permitting action, as the current action is a name change. The Department believes it will not cause or contribute to a violation of any ambient air quality standard.

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.

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

An Environmental Assessment is not required for the current permit action because the change is considered administrative.

Analysis Prepared By: Tashia Love
Date: January 2, 2013