

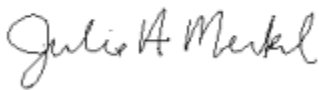
August 8, 2017

Marilyn Sink
United States Antimony Corp.
P.O. Box 643
Thompson Falls, MT 59873

Dear Ms. Sink:

Montana Air Quality Permit #2973-04 is deemed final as of August 8, 2017, by the Department of Environmental Quality (Department). This permit is for an antimony oxide production facility. 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 A. Merkel
Permitting Services Section Supervisor
Air Quality Bureau
(406) 444-3626



John P. Proulx
Air Quality Specialist
Air Quality Bureau
(406) 444-5391

JM:JPP
Enclosure

Montana Department of Environmental Quality
Air, Energy & Mining Division

Montana Air Quality Permit #2973-04

United States Antimony Corp.
P.O. Box 643
Thompson Falls, MT 59873

August 8, 2017



MONTANA AIR QUALITY PERMIT

Issued To: United States Antimony Corp.
P.O. Box 643
Thompson Falls, MT 59873

MAQP: #2973-04
Administrative Amendment (AA)
Request Received: 07/17/2017
Department Decision on AA: 07/21/2017
Permit Final: 08/08/2017
AFS #: 089-0006

A Montana Air Quality Permit (MAQP), with conditions, is hereby granted to United States Antimony Corporation (U.S. Antimony), 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

U.S. Antimony operates an antimony oxide production facility, including an Oxide Production Plant, a Reduction Production Plant, and a Sodium Antimony Plant. The facility is located in Section 29, Township 21 North, Range 31 West, in Sanders County, Montana. A list of permitted equipment is contained in Section I.A. of the permit analysis.

B. Current Permit Action

During a Department review, staff discovered that MAQP #2973-03 was missing a necessary administrative rule reference for the authority to use enforceable permit conditions to limit a source's potential emissions to below the Title V major source threshold. Because U.S. Antimony accepted limits on maximum dry standard cubic feet of air flow in its MAQP to stay below the Title V permit threshold for Hazardous Air Pollutants, the Department established such limits in the MAQP. These limits were missing the required reference of ARM 17.8.1204 which describes the Department's authority to establish limits for this purpose. MAQP #2973-04 adds this rule reference as well as updates other rule references and permit language. **MAQP #2973-04** replaces MAQP #2973-03.

Section II: Conditions and Limitations

A. Emission Limitations

1. Stack emissions are limited to 0.01 grains per dry standard cubic foot (gr/dscf) and 10% opacity (ARM 17.8.749).
2. Parametric monitoring (pressure drops across the baghouses) shall be used to indicate proper operation of the baghouses on an on-going basis (ARM 17.8.749).

3. Production at the facility shall be limited based on the air flowrate through the baghouses. The air flow rate through the baghouses shall not exceed 1.35×10^{10} dscf per year on a 12-month time period. The design flowrate of each baghouse (as shown in Section IV of the analysis section or as updated based on stack testing) and the monthly hours of operation will be used to verify compliance. Using the allowable emission rate of 0.01 gr/dscf, this process would equate to an emission limitation of 9.64 tons per year (tpy) (ARM 17.8.749 and ARM 17.8.1204).
4. U.S. Antimony must maintain a daily log of the hours of operation of each baghouse and at least one daily pressure recording of each operating baghouse (ARM 17.8.749).
5. Fugitive emissions shall be limited to 20% opacity (ARM 17.8.308).

B. Testing Requirements

1. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
2. The Department may require further testing (ARM 17.8.105).

C. Operational Reporting Requirements

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

3. All records compiled in accordance with this permit must be maintained by U.S. Antimony 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. U.S. Antimony shall document, by month, the number of dry standard cubic feet of air flow through the baghouses. By the 25th day of each month, U.S. Antimony shall total the number of dry standard cubic feet of air flow for the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section II.A.3. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).
5. U.S. Antimony shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit as required by ARM 17.8.1204(3)(b). The annual certification shall comply with the certification requirements of ARM 17.8.1207. The annual certification shall be submitted along with the annual emission inventory information (ARM 17.8.1204 and ARM 17.8.1207).

SECTION III: General Conditions

- A. Inspection – U.S. Antimony 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 U.S. Antimony fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving U.S. Antimony 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 therefor, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department’s decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA.

The issuance of a stay on a permit by the Board postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the Department's decision on the application is final 16 days after the Department's decision is made.

- F. Permit Inspection – As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by the Department at the location of the source.
- G. Permit Fee – Pursuant to Section 75-2-220, MCA, failure to pay the annual operation fee by U.S. Antimony may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Duration of Permit – Construction or installation must begin or contractual obligations entered into that would constitute substantial loss within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall expire (ARM 17.8.762).

Montana Air Quality Permit (MAQP) Analysis
United States Antimony Corp.
MAQP #2973-04

I. Introduction/Process Description

United States Antimony Corp. (U.S. Antimony) owns and operates an antimony oxide production facility. The facility is located in Section 29, Township 21 North, Range 31 West, in Sanders County, Montana.

A. Permitted Equipment

U.S. Antimony owns and operates an antimony oxide production facility, including an Oxide Production Plant, a Reduction Production Plant, and a Sodium Antimony Plant. The facility consists of 3 reduction furnaces, 6 fuming furnaces and 1 antimonate drier.

B. Source Description

The primary operation at the facility is the production of antimony oxide. Six propane-fired fuming furnaces are used to oxidize antimony metal (containing 99.8% antimony) to antimony trioxide. Each furnace is equipped with a baghouse, which collects the antimony trioxide. There is also one furnace, which is used to reduce antimony oxide back to antimony metal using coal. There is one baghouse used for ventilation. An equipment list for the facility including process furnaces and control equipment (with flowrates) is included in the emission inventory table in Section IV.

C. Permit History

Permit #220 was issued to U. S. Antimony Corp. on September 18, 1970, for a portable crusher, a heavy media separator, and a flotation concentrator. This equipment was not in operation for a number of years.

Permit #2973-00 was issued to U. S. Antimony on December 19, 1996, for an antimony oxide production facility. The permit replaced Permit #220 and is a synthetic minor permit for Title V operating permit purposes.

Permit #2973-01 was issued to U. S. Antimony on March 12, 1997, for a change to some of the furnace and baghouse configurations with a slight reduction in emissions.

On February 7, 1999, the Department of Environmental Quality (Department) issued U.S. Antimony a modification of Permit #2973-01. One baghouse was moved and two baghouses were added under the Administrative Rules of Montana (ARM) 17.8.705(1)(r). The ventilation baghouse #1 was changed to the reduction furnace baghouse #2. A new ventilation baghouse was added, as well as a reduction furnace baghouse #3.

The new ventilation baghouse #1 was added to the sodium antimonate building under direction of OSHA. The flow rate of the fan was 2500 dscfm, but the flow rate through the baghouse was significantly less. It was designed to trap fugitive dust within the plant, and would run intermittently.

The reduction furnace baghouse #3 was an alternate baghouse with a fan capacity of 2500 dscfm proposed for the reduction plant. This system would be used periodically for the recasting of metal. The production of dust during the short time of its operation would be minimal.

In addition, Section II.C of Permit #2973-01 incorrectly identified the allowable annual emissions. The allowable annual emissions were calculated using the air flow rate and the allowable emission rate. Permit #2973-01 stated that the allowable emissions were 9.76 tons per year, but the corrected value is 9.29 tons per year. **Permit #2973-02** replaced Permit #2973-01.

The permit action was a modification of Permit #2973-02. U.S. Antimony requested that the Department lower the emissions limit in Permit #2973-02 from 0.02 grains per dry standard cubic foot (gr/dscf) to 0.01 gr/dscf. In addition, the Department raised the air flow rate through the baghouses from 6.5×10^9 dscf to 1.35×10^{10} dscf during any 12-month rolling time period. With these two conditions changed, U.S. Antimony remained below the Title V emission regulation of 10 tons per year of any Hazardous Air Pollutant (HAP).

U.S. Antimony reconfigured their equipment to refine the process of antimony oxide production. The Department updated the permit language and the facility's equipment list to reflect operating conditions of the equipment. **Permit #2973-03** replaced Permit #2973-02.

D. Current Permit Action

During a Department review, staff discovered that MAQP #2973-03 was missing a necessary administrative rule reference for the authority to use enforceable permit conditions to limit a source's potential emissions to below the Title V major source threshold. Because U.S. Antimony accepted limits on maximum dry standard cubic feet of air flow in its MAQP to stay below the Title V permit threshold for HAPs, the Department established such limits in the MAQP. These limits were missing the required reference of ARM 17.8.1204 which describes the Department's authority to establish limits for this purpose. MAQP #2973-04 adds this rule reference as well as updates Administrative Rules of Montana (ARM) rule references and permit language currently used by the Department. **MAQP #2973-04** replaces MAQP #2973-03.

E. Additional Information

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

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department 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).

U.S. Antimony 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 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
11. ARM 17.8.230 Fluoride in Forage

U.S. Antimony 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, U.S. Antimony 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 17.8.316 Incinerators. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any incinerator, particulate matter in excess of 0.10 grains per standard cubic foot of dry flue gas, adjusted to 12% carbon dioxide and calculated as if no auxiliary fuel had been used. Further, no person shall cause or authorize to be discharged into the outdoor atmosphere from any incinerator emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes.
6. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this rule.

7. 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.
8. ARM 17.8.340 Standard of Performance for New Stationary Sources and Emission Guidelines for Existing Sources. This rule incorporates, by reference, 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS). This facility is not an NSPS affected source because it does not meet the definition of any NSPS subpart defined in 40 CFR Part 60.
9. ARM 17.8.342 Emission Standards for Hazardous Air Pollutants for Source Categories. This rule incorporates, by reference, 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAP). This facility is not a NESHAP affected source because it does not meet the definition of any NESHAP subpart defined in 40 CFR Part 63.

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. A permit fee is not required for the current permit action because the permit action is considered an administrative permit change.
2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit (excluding an open burning permit) issued by the Department. The air quality operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

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

E. ARM 17.8, Subchapter 7 – Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:

1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.

2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit modification to construct, modify, or use any air contaminant sources that have the potential to emit (PTE) greater than 25 tons per year of any pollutant. U.S. Antimony has a PTE of less than 25 tons per year for any pollutant; however, U.S. Antimony voluntarily took federally enforceable limits in order to remain below Title V threshold of 10 tons per year to remain under Major Source limits for HAPs.
3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit program.
4. ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) This rule requires that a permit application be submitted prior to installation, modification, or use of a source. A permit application was not required for the current permit action because the permit change is considered an administrative permit change. (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 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 U.S. Antimony of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*

10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
11. ARM 17.8.760 Additional Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those applications that require an environmental impact statement.
12. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or modified source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 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.
16. ARM 17.8.770 Additional Requirements for Incinerators. This rule specifies the additional information that must be submitted to the Department for incineration facilities subject to 75-2-215, Montana Code Annotated (MCA).
17. ARM 17.8.771 Mercury Emission Standards for Mercury-Emitting Generating Units. This rule identifies mercury emission limitation requirements, mercury control strategy requirements, and application requirements for mercury-emitting generating units.

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

- G. ARM 17.8, Subchapter 12 – Operating Permit Program Applicability, including, but not limited to:
1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any source having:
 - a. PTE > 100 tons/year of any pollutant;
 - b. PTE > 10 tons/year of any one hazardous air pollutant (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 requires that all sources, as defined in ARM 17.8.1204(1), obtain a Title V Operating Permit. In reviewing and issuing MAQP #2973-04 for U.S. Antimony, the following conclusions were made:
 - a. The facility's PTE is less than 100 tons/year for any pollutant.
 - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year for all HAPs.
 - c. This source is not located in a serious 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, or a solid waste combustion unit.

- g. This source is not an EPA designated Title V source.
- h. As allowed by ARM 17.8.1204(3), the Department may exempt a source from the requirement to obtain an air quality operating permit by establishing federally enforceable limitations which limit that source's potential to emit.
 - i. In applying for an exemption under this section, the owner or operator of the source shall certify to the Department that the source's potential to emit, does not require the source to obtain an air quality operating permit.
 - ii. Any source that obtains a federally enforceable limit on potential to emit shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit.

U.S. Antimony has taken federally enforceable permit limits to keep potential emissions below major source permitting thresholds. Therefore, the facility is not a major source and, thus a Title V operating permit is not required.

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

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

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

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

III. BACT Determination

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

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

IV. Emission Inventory

Emission Inventory		
Source/ Baghouse	Flowrate (dscfm)	Maximum Particulate Emission Rate (ton/yr)*
Reduction Furnace		
#1	2500	1.88
#2	2500	1.88
#3	2500	1.88
Fuming Furnaces		
#1	5000	3.75
#2	5000	3.75
#3	5000	3.75
#4	2500	1.88
#5	2500	1.88
#6	2500	1.88
Antimonate Driers		
#1	2500	1.88
TOTAL	32500	24.41

*The allowable emission rate is 9.64 tons per year, which is limited by Section II.A. and is based on the cumulative air flowrate through the baghouses on an 12-month rolling basis. This limit allows the facility to stay below Title V (<10 tpy) permitting threshold. All of the emitted particulates are assumed to be antimony compounds (HAPs). Emissions rates calculated based on an allowable emission rate of 0.01 grains per dry standard cubic foot.

V. Existing Air Quality

U.S. Antimony is located in located in Section 29, Township 21 North, Range 31 West, in Sanders County, Montana. The immediate area in which the facility is constructed is designated attainment/unclassified. U.S. Antimony maximum potential to emit of any pollutant, including PM₁₀, is not expected to have an impact on existing air quality.

VI. Ambient Air Impact Analysis

The Department determined that there will be no impacts from this permitting action because the current permitting action is considered an administrative action. 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 the following private property taking and damaging assessment.

YES	NO	
X		1. Does the action pertain to land or water management or environmental regulation affecting private real property or water rights?
	X	2. Does the action result in either a permanent or indefinite physical occupation of private property?
	X	3. Does the action deny a fundamental attribute of ownership? (ex.: right to exclude others, disposal of property)
	X	4. Does the action deprive the owner of all economically viable uses of the property?

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

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

VIII. Environmental Assessment

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

Analysis Prepared By: John P. Proulx
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