TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

APPLICANT

A Mining Group, LLC
Post Office Box 1829
Lake City, Florida 32056

Taylor County Mine
Facility ID No. 7775281

PROJECT

Project No. 7775281-007-AO
Application for Minor Source Air Operation Permit Renewal

COUNTY

Taylor, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Northeast District Office
Waste and Air Resource Management
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

April 25, 2014

1. GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Facility Description and Location

A Mining Group, LLC, Taylor County Mine is an existing limestone quarry and nonmetallic mineral processing plant. The operations are categorized under Standard Industrial Classification Code No. 1422. The facility is located in Taylor County at 19080 W. U.S. Highway 98, Lamont, Florida 32348. The UTM coordinates of the new facility are 17, 219.43 km East, and 3340.91 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal Ambient Air Quality Standards (AAQS).

This location is on contiguous property with the Anderson Columbia Co., Inc., Asphalt Plant No. 15. Both operations share common ownership and therefore pursuant to Rule 62-210.200(134), F.A.C., are defined as a single facility.

Facility Regulatory Categories

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act.
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

- The facility is not a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Project Description

The Department received the air permit renewal application from the applicant on April 21, 2014. Previous to the submittal of the application for Air Operation Permit No. 7775281-003-AO, the non-metallic mineral processing plant was authorized for construction and operation under the Air General Permit for Non-Metallic Mineral Processing Plants established by Rule 62-210.310(5)(e), F.A.C.

In accordance with Rule 62-210.310(2),F.A.C., such an operation is eligible to use the air general permit if it meets the specific eligibility criteria given in the applicable air general permit at subsection 62-210.310(4) or (5), F.A.C., and the general criteria of Rule 62-210.310(2), F.A.C.

In accordance with Rule 62-210.310(2)(a)2., F.A.C. the operation shall not contain any emissions units or activities not covered by the applicable air general permit, except for 1) units and activities that are exempt from permitting pursuant to subsection 62-210.300(3), F.A.C., or Rule 62-4.040, F.A.C., and 2) units and activities that are authorized by another air general permit where such other air general permit and the air general permit of interest specifically allow the use of one another at the same facility.

On January 27, 2009, the Department received an application for the construction of an Anderson Columbia Co., Inc. Hot Mix Asphalt (HMA) Plant to be located on contiguous property with the Taylor County Mine (Mine).

The Department has not established an air general permit for asphalt plants. There is not an exemption for asphalt plants from permitting pursuant to Rule 62-210.300(3), F.A.C., or Rule 62-4.040, F.A.C. Therefore, the existing Mine became ineligible for the continued use of the Air General Permit for Nonmetallic Mineral Processing Plants once an air permit was issued to the Anderson Columbia Co. Inc. HMA plant for construction at this location.

Rule 62-210.300(4), F.A.C. states that the owner or operator of any eligible facility who registers to use an air general permit under either of these rules, who is not denied use of the air general permit, and who operates the facility in compliance with the terms and conditions of the air general permit shall not be required to obtain an air construction permit pursuant to subsection 62-210.300(1), F.A.C., or an air operation permit pursuant to subsection 62-210.300(2), F.A.C., or Rule 62-213.400, F.A.C.

Since the Mine was constructed an in operation at the time the application from Anderson Columbia Co., Inc. HMA Plant No. 15 was received, A Mining Group applied for an operation permit for the Mine.

Facility Description

This facility consists of limestone quarry and nonmetallic mineral processing plant. Limestone is excavated and then processed to produce crushed stone meeting various specifications. Processing operations include hauling, crushing, screening, conveying, stockpiling, truck loading, and product handling. All power for the process equipment will be provided via electricity. Water sprays are applied at various points of the process to reduce the fugitive particulate emissions.

Fugitive emissions may also result from aggregate stockpiles, and vehicular traffic. The facility uses reasonable precautions (water spray application), as needed to control these emissions in accordance with the requirements of Rule 62-296.320(4)(c), F.A.C.

Processing Schedule

April 21, 2014	Received the application for an air pollution operation permit

2. PSD & TITLE V SOURCE APPLICABILITY

For areas currently in attainment with the state and federal AAQS or areas otherwise designated as unclassifiable, the Department regulates major stationary sources of air pollution in accordance with Florida's PSD preconstruction review program as defined in Rule 62-212.400, F.A.C. Under preconstruction review, the Department first must determine if a project is subject to the PSD requirements ("PSD applicability review") and, if so, must conduct a PSD preconstruction review. A PSD applicability review is required for projects at new and existing major stationary sources. In addition, proposed projects at existing minor sources are subject to a PSD applicability review to determine whether potential emissions *from the proposed project itself* will exceed the PSD major stationary source thresholds. A facility is considered a major stationary source with respect to PSD if it emits or has the potential to emit:

- 5 tons per year or more of lead;
- 250 tons per year or more of any regulated air pollutant; or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the following 28 PSD-major facility categories: fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (with thermal dryers), Kraft pulp mills, Portland cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production plants, chemical process plants, fossil fuel boilers (or combinations thereof) totaling more than 250 million British thermal units per hour heat input, petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels, taconite ore processing plants, glass fiber processing plants and charcoal production plants.

PSD Applicability for Project

There is no increase in potential emissions as a result of this project; therefore, the project is not subject to PSD preconstruction review.

Major Source of Air Pollution / Title V Source Applicability

According to Rule 62-210.200(194), F.A.C., fugitive emissions are to be included in the potential to emit calculations for Title V applicability if an emissions unit or group of emissions units are on the list of 27 source categories. Rule 62-210.200(194)(b)27., F.A.C., states "Any other stationary source category, which as of August 7, 1980, is being regulated under Section 111 or 112 of the Act".

Section 111 of the Act pertains to Standards of Performance for New Stationary Sources and Section 112 pertains to the National Emission Standards for Hazardous Air Pollutant regulations.

The HMA plant is subject to the requirements of 40 CFR 60 Subpart I - Standards of Performance for Hot Mix Asphalt Facilities. This NSPS was promulgated prior to the August 7, 1980 date, which therefore requires fugitive emissions from both the HMA plant and the Mine to be included in the potential to emit calculations. The Title V applicability threshold is 100 tons per year or more of any regulated air pollutant.

Rule 62-210.200(261)(b), F.A.C. defines a regulated air pollutant to include any pollutant regulated under 42 U.S.C. s. 7411 – Standards of Performance for New Stationary Sources, or 42 U.S.C. s. 7412 – Hazardous Air Pollutants

Standards for particulate matter are established in 40 CFR 60 Subpart I as in 40 CFR 60 Subpart OOO (which the Mine is subject). Therefore, for Title V applicability the particulate matter includes both total particulate matter and PM_{10} emissions along with the remaining criteria pollutants.

As provided in the applications for the HMA plant, the RAP crusher system, and the Mine, the total potential emissions from all operations combined are less than 100 tons per year; therefore, the facility is not classified as a Title V Source.

3. APPLICATION REVIEW

Federal NESHAP Provisions

The NESHAP requirements of 40 CFR 61 are not applicable as the facility operations and/or equipment do not belong to a source category or subcategory for which a standard has been promulgated.

The MACT requirements of 40 CFR 63 are not applicable as the facility operations and/or equipment do not belong to a source category or subcategory for which a standard has been promulgated. The facility is also not a major source of Hazardous Air Pollutants.

Federal NSPS Provisions

The Mine is subject to the requirements of 40 CFR 60, Subpart A- General Provisions and 40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants which is adopted by reference in Rule 62-204.800(8), F.A.C.

Affected facilities consist of each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station.

Any transfer point on belt conveyors or from any other affected facility shall not have any fugitive emissions which exhibit greater than 10 percent opacity. Any crusher, at which a capture system is not used, shall not have any fugitive emissions which exhibit greater than 15 percent opacity. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin shall not exhibit any visible emissions. These opacity standards are applicable at all times, including periods of startup, shutdown, and malfunction.

The NSPS standards require the owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to§60.672(h) and subsequently processes unsaturated materials, to submit a report of this change within 30 days following such change. The screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of 40 CFR 60.11 and 40 CFR 60 subpart OOO.

Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).

Because the Mine is subject to the federal NSPS standards, it is subject to the requirement of 40 CFR 60.11(d) of maintaining and operating the facility including the associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

The activities are also subject to the recordkeeping requirements of 40 CFR 60.7(b) – maintaining records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the emissions units and any malfunction of the air pollution control equipment.

All power for the process equipment at the Mine is provided via electricity, therefore the requirements of 40 CFR 60, Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), are not applicable.

State Rule Applicability

To ensure that the combined operations of the Mine and the Anderson Columbia Co., Inc HMA Plant No. 15 result in potential emissions below the Title V applicability threshold, the HMA Plant self-restricted the production rate of asphaltic concrete to no more than 400,000 tons in any consecutive twelve-month period as well as requested the Conditional Exemptions From Title V Air Permitting under Rule 62-210.300(3)(c)1., F.A.C.

The visible emission compliance testing permit condition language is consistent with the requirements of Rule 62-210.310(5)(e), F.A.C. – Air General Permit for Nonmetallic Mineral Processing Plants (Crushing Operations), as effective of January 10, 2007.

Visible emissions from emission points not subject to 40 CFR 60 Subpart OOO are subject to the general opacity standard of <20% opacity of Rule 62-210.320, F.A.C.

Consistent with of Rule 62-210.310(5)(e), F.A.C., an annual visible emissions test is not required for emission points not subject to 40 CFR 60 Subpart OOO.

As the Mine is an existing operation and initial compliance testing has previously been conducted, visible emissions testing is required for emission points subject to 40 CFR 60 Subpart OOO on an annual basis once each federal fiscal year, consistent with Rule 62-210.310(5)(e), F.A.C.

The Anderson Columbia Co., Inc HMA plant is limited to a maximum fuel consumption of 1,200,000 gallons in any consecutive 12-month period in accordance with the conditional exemption criteria established in Rule 62-210.3100(3)(c)1., F.A.C. for all sources at the facility. This includes the fuel consumed by the asphalt cement plant heater, any RAP crusher system located onsite, and the Mine. It is stated in the application for the Mine that electric crushers, screens, conveyors, bins and truck loading operations are used. However, the Mine is included in the fuel consumption limitation as the requirement applies to all sources at the facility. As mentioned above, both the ACCI HMA plant and the Mine are considered a single facility for permitting purposes.

Fugitive emissions from aggregate stockpiles and vehicular traffic areas are controlled pursuant to the requirements of Rule 62-296.320(4)(c),F.A.C. – Unconfined Emissions of Particulate Matter.

A. REGULATED EMISSION UNITS:

ID No.	Emission Unit Description
001	Taylor County Limestone Mine (Non-Metallic Mineral Processing Plant)

Crushing Operations Emissions Points	
Emission Point	**Description**
01	Primary Crusher
02	Tower 2 Crusher
03	Tower 3 Crusher

Screening Operations Emissions Points	
Emission Point	**Description**
04	Tower 1 Screen
05	Tower 2 Wash Screen
06	Tower 4 Wash Screen
07	Tower 4 Dewatering Screen

Conveyor System Emissions Points			
Emission Points	**Description**	**Emission Points**	**Description**
01 Note(1)	Primary Crusher Hopper	011	Field Transfer (unit 3) to Field Transfer (unit 4)
01 Note(1)	Primary Crusher Hopper to Primary Crusher	012	Field Transfer (unit 4) to Field Transfer (unit 5)
01 Note(1)	Primary Crusher to Under Crusher Conveyor	013	Field Transfer (unit 5) to Field Transfer (unit 6)
08	Under Crusher Conveyor to Field Transfer (unit 1)	014	Field Transfer (unit 6) to Field Transfer (unit 7)
09	Field Transfer (unit 1) to Field Transfer (unit 2)	015	Field Transfer (unit 7) to Field Transfer (unit 8)
010	Field Transfer (unit 2) to Field Transfer (unit 3)	016	Field Transfer (unit 8) to Overland Conveyor 2
017	Overland Conveyor 2 to Overland Conveyor 1	036	Conveyor C-29 to Conveyor C-29ST
018	Overland Conveyor 1 to Tower 1 Screen	037	Tower 2 Wash Screen to Conveyor C-31

Conveyor System Emissions Points			
Emission Points	**Description**	**Emission Points**	**Description**
019	Tower 1 Screen to Conveyor C-20	038	Conveyor C-31 through splitter to Conveyor C-34
021	Tower 1 Screen to Reverse Conveyor	039	Conveyor C-34 to Conveyor C-34ST
020	Conveyor C-20 to Conveyor C-20ST	040	Tower 2 Wash Screen to Dewatering Screen
022	Conveyor C-21 to Tower 3 Crusher	041	Dewatering Screen to Conveyor C-32
023	Tower 3 Crusher to Conveyor C-22	042	Conveyor C-32 through splitter to Conveyor C-35
024	Conveyor C-22 to Tower 4 Wash Screen	043	Conveyor C-35 to Conveyor C-35ST
025	Tower 4 Wash Screen to Conveyor C-23	044	Reverse Conveyor to Conveyor C-33
026	Conveyor C-23 to Tower 3 Crusher	045	Conveyor C-33 to Conveyor C-33ST
027	Tower 4 Wash Screen to Conveyor C-24	046	Recycle Bin to Recycle Bin Conveyor
028	Conveyor C-24 to Conveyor C-24ST	047	Recycle Bin Conveyor to Overland Conveyor 1
029	Tower 4 Wash Screen to Conveyor C-25ST	048	Conveyor C-50 to Conveyer C-51
030	Tower 4 Wash Screen to Conveyor C-26	049	Conveyor C-51 to Conveyor C-52
031	Conveyor C-26 to Conveyor C-26ST	050	Conveyor C-52 to Truck Loadout Bin 1
032	Reverse Conveyor to Conveyor C-27	051	Conveyor C-52 to Truck Loadout Bin 2
033	Conveyor C-27 to Tower 2 Wash Screen	052	Conveyor C-51 to Truck Loadout Bin 3
02 Note(1)	Tower 2 Wash Screen to Tower 2 Crusher		
02 Note(1)	Tower 2 Crusher to Conveyor C-28		
034	Conveyor C-28 to Conveyor C-27		
035	Tower 2 Wash Screen to Conveyor C-29		

Bin and Truck Loadout Stations Emissions Points	
Emission Points	**Description**
047	Recycle Bin – 10 ton
050 Note(1)	Load-out Bin 1 – 100 tons
051 Note(1)	Load-out Bin 2 – 100 tons
052 Note(1)	Load-out Bin 3 – 100 tons

B. PROCESS FACTORS

Potential particulate matter/PM_{10} emissions were based on AP-42 emissions factors for controlled equipment due to the inherent moisture in the limestone material at the facility. The controlled equipment AP-42 emissions factors refer to a maximum moisture content of 2.88 percent while the uncontrolled refers to 1.3 percent. The wet wash and dredged limestone at the Mine has a moisture content of approximately 10 to 15 percent and the remaining limestone material has a moisture content of approximately 5 to 7 percent according the facility.

AP-42 5th Edition for uncontrolled crushed stone operations, Table 11.19.2-2 – PM emissions

Controlled emission factors used due to inherent moisture content of material 5-7%.
Material saturated with water (inherent moisture content of 10-15%) assume emission factor of 0 lbs/ton of material throughput.

Conveyor Transfer Point	0.00014 lbs/ton of material throughput
Crushing	0.0012 lbs/ton of material throughput
Screening	0.0022 lbs/ton of material throughput
Truck Load out Bins (2)	0.00014 lbs/ton of material throughput

AP-42 5th Edition for uncontrolled crushed stone operations, Table 11.19.2-2 – PM_{10} emissions

Controlled emission factors used due to inherent moisture content of material 5-7%.
Material saturated with water (inherent moisture content of 10-15%) assume emission factor of 0 lbs/ton of material throughput.

Conveyor Transfer Point	0.0000046 lbs/ton of material throughput
Crushing	0.00054 lbs/ton of material throughput
Screening	0.00074 lbs/ton of material throughput
Truck Load out Bins (2)	0.0000046 lbs/ton of material throughput

AP-42 5th Edition Unpaved Roads emissions due to Vehicle traffic, Table 13.2.2-4

Assumed 90% control from water trucks wetting the roads twice per day on average

VMT =50,000 trucks travel ˜ 1 mile; 50,000 trucks travel ˜0.05 mile
Front-End Loader: 3 @ 300 miles/yr
Assume truck weight = 22 tons (W)
Limestone

Equation 1a and 2:

$E = k \times (s/12)^a \times (W/3)^b \times (365-P)/365 \times (1-0.9)$

E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
P = number of days in a year with at least 0.254 mm (0.01 in) of precipitation

<u>From AP-42 Table 13.2.2-2:</u>

PM: k=4.9, a=0.7, b=0.45
PM_{10}: k=1.5, a=0.9, b=0.45

<u>From AP-42 Table 13.2.2-1.</u>

PM & PM_{10}: s=10

<u>From AP-42 Figure 13.2.2-1</u>

P= 120

<u>PM Emissions from Storage Piles @ Limestone Mine</u>

Storage piles saturated with water not included
Lateral surface area of storage piles of 10 acres based on application information
PM_{10} assumed to be 50% of PM

<u>Equation from EPA-450/3-88-008</u>:

$E = 1.7 * (s/1.5) * [(365-p)/235] * (f/15)]$

E= emission factor (lb/acre/day)
s = surface material silt content (%)
P = number of days in a year with at least 0.254 mm (0.01 in) of precipitation
f= Time Wind Speed > 12 mph (%)

<u>From AP-42 5th Edition Table 13.2.4-1:</u>

S= 1.6

From AP-42 5th Edition Figure 13.2.2-1:

p=120

From Tallahassee Airport Wind Data:

f=10.1

C. ESTIMATED POLLUTANT EMISSIONS

A Mining Group Taylor County Mine Emission Sources					
Equipment Description	**Maximum Rate (TPH)**	**PM AP-42 EF lb/ton**	**PM TPY**	**PM_{10} AP-42 EF lb/ton**	**PM_{10} TPY**
Primary Crusher Hopper	1500	0.00012	7.88	0.00054	3.55
Primary Crusher	500	0.0012	2.63	0.00054	1.18
Tower 2 Wet Crusher	500	0	0.00	0	0.00
Tower 3 Crusher	1000	0.0012	5.26	0.00054	2.37
Screens Tower 1	1500	0.0022	14.45	0.00074	4.86
Wash Screens Tower 2	1000	0	0.00	0	0.00
Wash Screens Tower 4	1000	0	0.00	0	0.00
Overland Conveyor 1	1500	0.00014	0.92	0.0000046	0.03
Overland Conveyor 2	1500	0.00014	0.92	0.0000046	0.03
Field Transfer Conveyor (8 units)	1500	0.00014	7.36	0.0000046	0.24
20ST Conveyor	1000	0.00014	0.61	0.0000046	0.02
20 Conveyor	1000	0.00014	0.61	0.0000046	0.02
21 Conveyor	1000	0.00014	0.61	0.0000046	0.02
22 Conveyor	1000	0	0.00	0	0.00
23 Conveyor	1000	0	0.00	0	0.00
24ST Conveyor	1000	0	0.00	0	0.00
24 Conveyor	1000	0	0.00	0	0.00
25ST Conveyor	1000	0	0.00	0	0.00
26ST Conveyor	1000	0	0.00	0	0.00
26 Conveyor	1000	0	0.00	0	0.00
27 Conveyor	1000	0.00014	0.61	0.0000046	0.02
28 Conveyor	1000	0	0.00	0	0.00

A Mining Group Taylor County Mine Emission Sources					
Equipment Description	**Maximum Rate (TPH)**	**PM AP-42 EF lb/ton**	**PM TPY**	**PM_{10} AP-42 EF lb/ton**	**PM_{10} TPY**
29ST Conveyor	1000	0	0.00	0	0.00
29 Conveyor	1000	0	0.00	0	0.00
30 Conveyor	1000	0.00014	0.61	0.0000046	0.02
31 Conveyor	1000	0	0.00	0	0.00
32 Conveyor	1000	0	0.00	0	0.00
33ST Conveyor	1000	0.00014	0.61	0.0000046	0.02
33 Conveyor	1000	0.00014	0.61	0.0000046	0.02
34ST Conveyor	1000	0	0.00	0	0.00
34 Conveyor	1000	0	0.00	0	0.00
35ST Conveyor	1000	0	0.00	0	0.00
35 Conveyor	1000	0	0.00	0	0.00
50 Conveyor	1000	0	0.00	0	0.00
51 Conveyor	1000	0	0.00	0	0.00
52 Conveyor	1000	0	0.00	0	0.00
Under Crusher Conveyor	1000	0.00014	0.61	0.0000046	0.02
Belt Feeders (14 Units)	1000	0	0.00	0	0.00
Recycle Feeding Overland Conveyor	1000	0.00014	0.61	0.0000046	0.02
Recycle Bin	100	0.00014	0.06	0.0000046	0.00
EM Feeder (5 units single operation)	500	0.00014	0.31	0.0000046	0.1
Truck Load out Bin 1 – 100 tons	500	0.00014	0.61	0.0000046	0.02
Truck Load out Bin 2- 100 tons	500	0.00014	0.61	0.0000046	0.02
Truck Load out Bin 3 – 100 tons [2]	500	0.00014	0.61	0.0000046	0.02
Mine Front end loader 1 -300 miles	---	0.71	0.11	0.21	0.03
Mine Front end loader 2 –300 miles	---	0.71	0.11	0.21	0.03
Load out Front-end loader -300 miles	---	0.71	0.11	0.21	0.03
Trucks 100000/yr-52500 miles	---	0.71	18.64	0.21	5.51
Storage Piles	---	---	2.32	---	1.16
Total Emissions			**68.43**		**19.28**

Anderson Columbia Co., Inc. (ACCI) HMA Plant No. 15 Plant-wide Emissions	
Pollutant	**Emissions[1]**
PM	18.86
PM_{10}	11.49
SO_2	78.17
CO	27.15
NO_x	14.68
VOC (TOC)	9.88
HAPs	2.00

[1] Specific Emissions Points identified in application for ACCI HMA Plant No. 15.
[2] Added Emissions point with August 5, 2009 updated information.

ACCI HMA Plant No. 15 & Taylor County Mine Facility-Wide Total Emissions	
Pollutant	**Emissions**
PM	87.29
PM_{10}	30.77
SO_2	78.17
CO	27.15
NO_x	14.68
VOC (TOC)	9.88
HAPs	2.00

D. EQUIPMENT MANUFACTURER, MODEL, AND CAPACITY INFORMATION

Crushing Operation Emissions Points		
Description	**Model**	**Capacity (TPH)**
One (1) Lippman Crusher -Primary -Mfr date: 2006	3650	500
One (1) Tower 2 Wet Crusher -Stedman -Mfr date: 2008	4860	500

Crushing Operation Emissions Points		
Description	**Model**	**Capacity (TPH)**
One (1) Tower 3 Crusher -Stedman -Mfr date: 2006	6490	1000

Screening Operation Emissions Points		
Description	**Model**	**Capacity (TPH)**
One (1) Screen Tower 1 -Deister -Mfr date: 2005	2820	1500
One (1) Wash Screen Tower 2 -Deister -Mfr date: 2008	3820	1000
One (1) Wash Screen Tower 4 -Deister -Mfr date: 2006	3824	1000
One (1) Dewatering Screen		

Conveyor System Emissions Points		
Description	**Size**	**TPH Rate**
Primary Crusher Hopper -Mfr date: 2006	1500 TPH	1500
Overland Conveyor 1 -Mfr date: 2005	42”W x 5500’	1500
Overland Conveyor 2 -Mfr date: 2005	42”W x 4500’	1500
Field Transfer (8 Units) -Mfr date: 2005	48”W x 270’	1500

Conveyor System Emissions Points		
Description	**Size**	**TPH Rate**
C-20ST -Mfr date: 2005	36”W x 415’	1000
C-20 -Mfr date: 2005	36”W x 855’	1000
C-21 -Mfr date: 2005	36”W x 1075’	1000
C-22 -Mfr date: 2005	36”W x 450’	1000
C-23 -Mfr date: 2005	30”W x 475’	1000
C-24ST -Mfr date: 2005	30”W x 345’	1000
C-24 -Mfr date: 2005	30”W x 470’	1000
C-25ST -Mfr date: 2005	30”W x 345’	1000
C-26ST -Mfr date: 2005	30”W x 345’	1000
C-26 -Mfr date: 2005	30”W x 425’	1000
C-27 -Mfr date: 2005	36”W x 340’	1000
C-28 -Mfr date: 2005	30”W x 345’	1000
C-29ST -Mfr date: 2005	30”W x 345’	1000
C-29 -Mfr date: 2005	30”W x 500’	1000
C-30 -Mfr date: 2005	36”W x 2850’	1000
C-31 -Mfr date: 2005	30”W x 420’	1000
C-32 -Mfr date: 2005	30”W x 420’	1000
C-33ST -Mfr date: 2005	36”W x 345’	1000
C-33 -Mfr date: 2005	36”W x 610’	1000
C-34ST -Mfr date: 2005	30”W x 280’	1000
C-34 -Mfr date: 2005	30”W x 730’	1000

Conveyor System Emissions Points		
Description	**Size**	**TPH Rate**
C-35ST -Mfr date: 2005	30”W x 280’	1000
C-35 -Mfr date: 2005	30”W x 730’	1000
C-50 -Mfr date: 2005	36”W x 1500’	1000
C-51 -Mfr date: 2005	36”W x 25’	1000
C-52 -Mfr date: 2005	36”W x 15’	1000
Under Crusher Conveyor -Mfr date: 2005	48”W x 35”	1000
Belt Feeder (14 Units) -Mfr date: 2005	30”W x 10’	1000
Recycle Feeding Overland Conveyor -Mfr date: 2005	30”W x 25’	1000

Bin and Truck Loadout Stations Emissions Points		
Description	**Size**	**TPH Rate**
Recycle Bin – 10 ton -Mfr date: 2005	10 tons	100
Electro Mechanical Feeders (5 units, single operation) -Mfr date: 2005	750 TPH	500
Load-out Bin 1	100 tons	500
Load-out Bin 2	100 tons	500
Load-out Bin 3[1]	100 tons	500

[1] Added Emissions point with August 5, 2009 updated information.

E. APPLICATION PROCESSING FEE SUMMARY/DETERMINATION

Emission Unit	Test Method	Fee Amount
001-NMMPP	Visible Emissions Testing	$1000
Total Application processing fee:		**$1000**

4. DETERMINATION

The Department makes a determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the permit. Brent Steele is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Northeast District Office.