



MICHELLE LUJAN GRISHAM  
GOVERNOR

JAMES C. KENNEY  
CABINET SECRETARY

**AIR QUALITY BUREAU  
NEW SOURCE REVIEW PERMIT  
Issued under 20.2.72 NMAC**

Certified Mail No:  
Return Receipt Requested

**NSR Permit No:** 9883-M1  
**Facility Name:** Bennett Sand Mine

**Permittee Name:** Intrepid Potash – New Mexico, LLC

**Mailing Address:** 1996 Potash Mines Road  
Carlsbad, NM 88220

**TEMPO/IDEA ID No:** 40957-PRN20230002  
**AIRS No:** 35-025-2410

**Permitting Action:** Regular - New  
**Source Classification:** Synthetic Minor

**Facility Location:** 668000 E by 3549500 m N, Zone 13; Datum WGS84  
**County:** Lea County

**Air Quality Bureau Contact  
Main AQB Phone No.** Rhonda Romero  
(505) 476-4300

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**Liz Bisbey-Kuehn  
Bureau Chief  
Air Quality Bureau**

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**Date**

Template version: 06/30/2021

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**PART A FACILITY SPECIFIC REQUIREMENTS**

**A100 Introduction**

- A. This permit, NSR 9883-M1 supersedes all portions of Air Quality Permit 9338, issued March 17, 2023, except portions requiring compliance tests. Compliance test conditions from previous permits, if not completed, are still in effect, in addition to compliance test requirements contained in this permit.

**A101 Permit Duration (expiration)**

- A. The term of this permit is permanent unless withdrawn or cancelled by the Department.

**A102 Facility: Description**

- A. The function of the facility is to mine, handle, wash, screen, store, and distribute sand.
- B. This facility is located approximately 1.5 miles southwest of Jal, New Mexico in Lea County.
- C. This modification consists of converting the permit type from a GCP-2 to a Regular NSR Permit. The description of this modification is for informational purposes only and is not enforceable.
- D. Tables 102.A and Table 102.B show the total potential emission rates (PER) from this facility for information only. This is not an enforceable condition and excludes emissions from Minor NSR exempt activities per 20.2.72.202 NMAC.

**Table 102.A: Total Potential Emission Rate (PER) from Entire Facility**

| <b>Pollutant</b>  | <b>Emissions (tons per year)</b> |
|---|----------------------------------|
| Particulate Matter 10 microns or less (PM <sub>10</sub> )   | 30.9                             |
| Particulate Matter 2.5 microns or less (PM <sub>2.5</sub> ) | 3.9                              |

1. PM is a regulated new source review pollutant per 20.2.74 NMAC Prevention of Significant Deterioration. No ambient air quality standards apply to PM.

**A103 Facility: Applicable Regulations**

- A. The permittee shall comply with all applicable sections of the requirements listed in Table 103.A.

**Table 103.A: Applicable Requirements**

| Applicable Requirements  | Federally Enforceable   | Unit No.        |
|--|---|-----------------|
| 20.2.1 NMAC General Provisions                                     | X   | Entire Facility |
| 20.2.7 NMAC Excess Emissions                                       | X (Except for Sections 6(b); 110(b)(15); 111; 112; 113; 115; and 116 that are State Enforceable Only) | Entire Facility |
| 20.2.72 NMAC Construction Permit                                   | X   | Entire Facility |
| 20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements | X   | Entire Facility |
| 20.2.75 NMAC Construction Permit Fees                              | X   | Entire Facility |

**A104 Facility: Regulated Sources**

- A. Table 104.A lists the emission units authorized for this facility. Emission units identified as exempt activities (as defined in 20.2.72.202 NMAC) and/or equipment not regulated pursuant to the Act are not included.

**Table 104.A: Regulated Sources List**

| Unit No. | Source Description          | Make      | Model | Serial No. | Construction/Reconstruction Date | Manufacture Date | Manufacturer Rated Capacity /Permitted Capacity |
|----------|-----------------------------|-----------|-------|------------|----------------------------------|------------------|---|
| F-1      | Unpaved Roads               | N/A       | N/A   | N/A        | N/A                              | N/A              | 41 trucks/hr                                    |
| F-2      | Mine Material Handling      | N/A       | N/A   | N/A        | N/A                              | N/A              | 440 tph   |
| F-3      | Raw Material Storage Pile 1 | N/A       | N/A   | N/A        | N/A                              | N/A              | 800 m <sup>2</sup>                              |
| F-4      | Raw Material Storage Pile 2 | N/A       | N/A   | N/A        | N/A                              | N/A              | 800 m <sup>2</sup>                              |
| F-5      | Feed Hopper 1               | N/A       | N/A   | N/A        | N/A                              | N/A              | 220 tph   |
| F-6      | Feed Hopper 2               | N/A       | N/A   | N/A        | N/A                              | N/A              | 220 tph   |
| F-7      | Product Loading             | N/A       | N/A   | N/A        | N/A                              | N/A              | 440 tph   |
| WS-1     | Wash Unit                   | Sandstorm | 620   | TBD        | TBD                              | TBD              | 220 tph   |
| WS-2     | Wash Unit                   | Sandstorm | 620   | TBD        | TBD                              | TBD              | 220 tph   |

**A105 Facility: Control Equipment**

- A. Table 105 lists all the pollution control equipment required for this facility. Each emission point is identified by the same number that was assigned to it in the permit application.

**Table 105: Control Equipment List:**

| <b>Control Equipment Unit No.</b> | <b>Control Description</b>  | <b>Pollutant being controlled</b> | <b>Control for Unit Number(s)<sup>1</sup></b> |
|-----------------------------------|---|-----------------------------------|---|
| C-1                               | Facility Speed Limit all roads  | PM 10 and PM 2.5                  | F-1   |
| C-2                               | Water as needed for mine haul roads   | PM 10 and PM 2.5                  | F-1   |
| C-3                               | Base Course for facility entrance (Product Roads)   | PM 10 and PM 2.5                  | F-1   |
| C-4                               | Dust Suppression for facility entrance road (Product Roads-Road Guard or an equivalent suppressant) | PM 10 and PM 2.5                  | F-1   |

1. Control for unit number refers to a unit number from the Regulated Equipment List

**A106 Facility: Allowable Emissions**

- A. The following Section lists the emission units and their allowable emission limits. (40 CFR 50, 20.2.72.210.A and B.1 NMAC).

**Table 106.A: Allowable Emissions**

| <b>Unit No.</b>          | <b>PM<sub>10</sub><br/>pph</b> | <b>PM<sub>10</sub><br/>tpy</b> | <b>PM<sub>2.5</sub><br/>pph</b> | <b>PM<sub>2.5</sub><br/>tpy</b> |
|--------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| F-1 (A-alt) <sup>1</sup> | 3.3                            | 13.2                           | 0.3                             | 1.3                             |
| F-1 (B-alt) <sup>1</sup> | 3.9                            | 15.7                           | 0.4                             | 1.6                             |
| F-1 (C-alt) <sup>1</sup> | 3.3                            | 13.4                           | 0.3                             | 1.3                             |
| F-1 (A) <sup>1</sup>     | 2.3                            | 9.3                            | 0.2                             | 0.9                             |
| F-1 (B) <sup>1</sup>     | 3.0                            | 12.1                           | 0.3                             | 1.2                             |
| F-1 (C) <sup>1</sup>     | 2.8                            | 11.4                           | 0.3                             | 1.1                             |
| F-2                      | 0.4                            | 1.6                            | 0.05                            | 0.2                             |

| Unit No. | PM <sub>10</sub><br>pph | PM <sub>10</sub><br>tpy | PM <sub>2.5</sub><br>pph | PM <sub>2.5</sub><br>tpy |
|----------|-------------------------|-------------------------|--------------------------|--------------------------|
| F-3      | 0.7                     | 3.0                     | 0.1                      | 0.5                      |
| F-4      | 0.7                     | 3.0                     | 0.1                      | 0.5                      |
| F-5      | 0.7                     | 3.0                     | 0.1                      | 0.5                      |
| F-6      | 0.7                     | 3.0                     | 0.1                      | 0.5                      |
| F-7      | 0.4                     | 1.7                     | 0.06                     | 0.3                      |

- 1 For mine roads “A” denotes travel of the mine trucks to the southwest corner of the mine, “B” denotes travel of the mine trucks to the northwest corner of the mine and “C” denotes travel to the northeast corner of the mine. Scenarios designated as “alt” indicate the facility road entering from the east, scenarios without “alt” indicate facility entry from the south.
- 2 To report excess emissions for sources with no pound per hour and/or ton per year emission limits, see condition B110F.

**A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM)**

- A. Separate allowable SSM emission limits are not required for this facility since the SSM emissions are predicted to be less than the limits established in Table 106A. The permittee shall maintain records in accordance with Condition B109.C.

**A108 Facility: Allowable Operations**

- A. This facility is authorized for continuous operation. Monitoring, recordkeeping, and reporting are not required to demonstrate compliance with continuous hours of operation.
- B. Facility Throughput

**Requirement:** Compliance with the particulate emission limits in Table 106.A shall be demonstrated by limiting the production rates to:

(1) For the Mine Material Handling and Product loading 440 tph.

The permittee shall install and operate a weigh-belt(s) and data logger in a location(s) such that material introduced into the system and prior to classification is weighed.

The permittee shall calibrate the weigh belt(s) as per the manufacturer’s specifications, but at a minimum of once per month.

The permittee shall calibrate the truck weigh scale as per the manufacturer’s specifications, but at a minimum of every six months.

**Monitoring:** Daily, the permittee shall monitor the following:

1. The date, start time, and end time of any production.

|   |
|---|
| <p>2. The total hours of production for that day.</p> <p>3. For Mine Material Handling, this data shall be collected at least once every six (6) minutes, or the minimum time capable by the system logger.</p> <p>4. The total daily production (tons) shall be determined by the sum of the truck net weight tickets.</p> <p>Compliance with the ton per hour process rate shall be demonstrated by dividing the total daily production in tons per day by the total hours of operation for that day.</p>   |
| <p><b>Recordkeeping:</b> Daily, the permittee shall keep records of the following:</p> <ol style="list-style-type: none"> <li>1. The date, start time, and end time of any production.</li> <li>2. The total hours of production for that day.</li> <li>3. For Mine Material Handling, the production rate for each hour.</li> <li>4. The total daily production (tons)</li> <li>5. The results of the calculated hourly production rate.</li> </ol> <p>For each belt, the permittee shall also keep records of the methods used to calibrate the weigh belt(s) and the date of each calibration.</p> |
| <p><b>Reporting:</b> The permittee shall report in accordance with Section B110.</p>  |

**A109 Facility: Reporting Schedules**

- A. The permittee shall report according to the Specific Conditions and General Conditions of this permit.

**A110 Facility: Fuel and Fuel Sulfur Requirements – Not Required**

**A111 Facility: 20.2.61 NMAC Opacity – Not Required**

**A112 Facility: Haul Roads**

- A. Truck Traffic

|   |
|---|
| <p><b>Requirement:</b> Compliance with the particulate matter emission limits in Table 106.A for the Haul Roads shall be demonstrated by limiting the number of round-trip haul road trips to 41 round trips per hour.</p> <p>The round-trip truck/day limits were specified in the permit application and are the basis for the Departments modeling analysis to determine compliance with the applicable ambient air quality standards.</p> |
| <p><b>Monitoring:</b> The permittee shall monitor the total number of haul road round trips per hour.</p>   |
| <p><b>Recordkeeping:</b> The permittee shall keep daily records of the total number of haul road trips per hour. Records shall be maintained in accordance with Condition B109.</p>   |
| <p><b>Reporting:</b> The permittee shall report in accordance with Section B110.</p>  |

### B. Haul Road Control

**Requirement:** Compliance with the allowable emissions limits in Table 106.A shall be demonstrated by maintaining all unpaved haul roads at the facility as follows.

- (1) The maximum speed limit at facility entrance, mine haul roads, and product haul roads is limited to 15 mph.
- (2) The facility entrance (Product Haul Roads) shall be watered **and** treated by application of base course to control particulate emissions.
- (3) The facility entrance (Product Roads) shall be treated with a surface stabilizing agent (Road Guard or equivalent) to control particulate emissions.
- (4) The mine haul roads shall be watered to control particulate emissions.
- (5) Haul truck speed limits shall be posted throughout the facility at appropriate locations.

This condition demonstrates compliance with the control efficiency specified in the permit application and are the basis for the Departments modeling analysis to determine compliance with the applicable ambient air quality standards.

This control measure shall be used on roads as far as the nearest public road.

**Monitoring:** The permittee shall monitor the frequency, quantity, and location(s) of the water, base course, and dust suppressant application, or equivalent control measures.

**Recordkeeping:** The permittee shall keep daily records of the frequency, quantity, and location(s) of the water and dust suppressant application, or equivalent control measures. Records shall be maintained in accordance with Condition B109.

**Reporting:** The permittee shall report in accordance with Section B110.

### C. Nighttime Truck Traffic

**Requirement:** Nighttime operation of haul trucks and material handling equipment is authorized providing the following requirements are met for the trafficked roads and off-road surfaces used by this equipment.

Dirt or gravel surfaces:

- (1) Water immediately prior to beginning traffic operations.
- (2) Additional watering shall be done whenever dust is observed crossing the restricted boundary to be higher than the headlights or taillights of a standard haul truck as it travels on the surface.

Surfaces that are paved or treated with surfactants:

- (3) No extra requirements for night traffic.

**Monitoring:**

- (4) The permittee shall monitor:
  - (a) the date and time at the commencement of watering activities;



- (b) the date and time at the completion of watering activities;
- (c) the quantity of water applied;
- (d) the date and time of commencement and completion of night traffic operations.

(5) For each hour of night operation in which the traffic areas were not watered, the permittee shall monitor the road and off-road surfaces to see if dust is rising higher than the headlights or taillights of a standard haul truck.

**Recordkeeping:**

- (1) Each record of night traffic on unpaved roads and surfaces shall include:
  - (a) the date and time at the commencement of watering;
  - (b) the date and time at the completion of watering;
  - (c) the quantity of water applied;
  - (d) the time and date of commencement and completion of nighttime operations;
  - (e) the name of the person making the observations.
- (2) The permittee shall make a record of each hourly dust monitoring activity to see if additional watering is necessary. At a minimum the record shall include the date, the time of the observation, the roads and surfaces observed, the results of the observation, and the name of the person making the observation.

**Reporting:** Records shall be made available according to reporting requirements of this permit, if the Department requests them.

**A113 Facility: Location Requirements**

A. Setback Distances

The wash plant and associated piles shall be located at least 190 meters west of the eastern boundary and at least 130 meters north of any boundary to the south.

**A114 Facility: Relocation Requirements**

A. This facility **may not** be relocated.

**A115 Alternative Operating Scenario – Not Required**

**A116 Compliance Plan – Not Required**

**A117 Governing Requirements During Source Construction, Source Removal, and/or**

**Change in Emissions Control** – Not Required

**EQUIPMENT SPECIFIC REQUIREMENTS**

**OIL AND GAS INDUSTRY**

**A200 Oil and Gas Industry**

- A. This section has common equipment related to most Oil and Gas Operations.

**SAND MINING AND HANDLING INDUSTRY**

**A300 Sand Mining and Handling**

- A. This section has common equipment related to most Sand Mining and Handling Operations.

**A301 Equipment Substitutions**

- A. Substitution of material handling equipment is authorized provided the replacement equipment is functionally equivalent and has the same or lower process capacity as the piece of equipment it is replacing in the most recent permit. The replacement equipment shall comply with the opacity and emission limit requirements in this permit.
- B. The Department shall be notified within fifteen (15) days of equipment substitutions using the Equipment Substitution Form provided by the Department and available online.

**A302 Material Moisture Content, Material Silt Content, and Fugitive Dust**

- A. Fugitive Dust Control Plan (FDCP)

**Requirement:** The permittee shall develop a Fugitive Dust Control Plan (FDCP) for minimizing emissions from areas such as aggregate feeders, conveyors, bins, bin scales, storage piles, overburden removal, disturbed earth, buildings, truck loading/unloading, or active pits.

Sites of overburden removal and active pit areas shall be watered, dependent on existing wind speeds and soil moisture content, as necessary to minimize dust emissions.

Stockpiles shall be maintained with standard industry practices and procedures to minimize fugitive emissions to the atmosphere.

**Monitoring:** Once each calendar month, the permittee shall inspect each area to ensure that fugitive dust is being minimized and determine if the FDCP plan needs updating.

Any observations of excessive visible dust emissions from the above areas shall be considered an indication of the need to update the FDCP.

**Recordkeeping:** Monthly, the permittee shall make a record of each monthly inspection of each area and revise the plan to address past shortcomings as well as future activities. If no changes are needed, then the permittee shall make a record that the plan needs no changes. The permittee shall make a record of any action taken to minimize emissions as a result of the FDCP or monthly inspections. The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall report in accordance with Section B110.

#### B. Material Silt Content Sieve Analysis (Mine Roads)

**Requirement:** Compliance with the allowable emission limits in Table 106.A shall be demonstrated by conducting a sieve analysis at three separate locations on the Mine Roads once every six months during the first year of operation and annually after that if the sieve analyses during the first year are consistent with the sieve analysis provided in the initial permit application.

A material silt content percentage was specified in the permit application and is the basis for the Departments modeling analysis to determine compliance with the applicable ambient air quality standards.

**Monitoring:** The permittee shall monitor the silt content percentage once every six months.

**Recordkeeping:** The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall report in accordance with Section B110.

#### C. Material Moisture Content (Mine Material Handling and Product Loading)

**Requirement:** Compliance with the allowable emission limits in Table 106.A shall be demonstrated by measuring the material moisture content for Mine Material Handling and Product loading at three separate locations each. These measurements shall take place once per month.

A specific material moisture content was specified in the permit application and is the basis for the Departments modeling analysis to determine compliance with the applicable ambient air quality standards.

**Monitoring:** The permittee shall monitor the material moisture content once every month.

**Recordkeeping:** The permittee shall maintain records in accordance with Section B109.

**Reporting:** The permittee shall report in accordance with Section B110.

## PART B GENERAL CONDITIONS (Attached)

**PART C MISCELLANEOUS: Supporting On-Line Documents; Definitions;  
Acronyms (Attached)**

**AIR QUALITY BUREAU  
NEW SOURCE REVIEW PERMIT  
Issued under 20.2.72 NMAC**

**GENERAL CONDITIONS AND MISCELLANEOUS**

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**PART B GENERAL CONDITIONS****B100 Introduction**

- A. The Department has reviewed the permit application for the proposed construction/modification/revision and has determined that the provisions of the Act and ambient air quality standards will be met. Conditions have been imposed in this permit to assure continued compliance. 20.2.72.210.D NMAC, states that any term or condition imposed by the Department on a permit is enforceable to the same extent as a regulation of the Environmental Improvement Board.

**B101 Legal**

- A. The contents of a permit application specifically identified by the Department shall become the terms and conditions of the permit or permit revision. Unless modified by conditions of this permit, the permittee shall construct or modify and operate the Facility in accordance with all representations of the application and supplemental submittals that the Department relied upon to determine compliance with applicable regulations and ambient air quality standards. If the Department relied on air quality modeling to issue this permit, any change in the parameters used for this modeling shall be submitted to the Department for review. Upon the Department's request, the permittee shall submit additional modeling for review by the Department. Results of that review may require a permit modification. (20.2.72.210.A NMAC)
- B. Any future physical changes, changes in the method of operation or changes in restricted area may constitute a modification as defined by 20.2.72 NMAC, Construction Permits. Unless the source or activity is exempt under 20.2.72.202 NMAC, no modification shall begin prior to issuance of a permit. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- C. Changes in plans, specifications, and other representations stated in the application documents shall not be made if they cause a change in the method of control of emissions or in the character of emissions, will increase the discharge of emissions or affect modeling results. Any such proposed changes shall be submitted as a revision or modification. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- D. The permittee shall establish and maintain the property's Restricted Area as identified in plot plan submitted with the application. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)
- E. Applications for permit revisions and modifications shall be submitted to:  
Program Manager, Permits Section  
New Mexico Environment Department

Air Quality Bureau  
525 Camino de los Marquez, Suite 1  
Santa Fe, NM 87505

- F. The owner or operator of a source having an excess emission shall, to the extent practicable, operate the source, including associated air pollution control equipment, in a manner consistent with good air pollutant control practices for minimizing emissions. (20.2.7.109 NMAC). The establishment of allowable malfunction emission limits does not supersede this requirement.

#### **B102 Authority**

- A. This permit is issued pursuant to the Air Quality Control Act (Act) and regulations adopted pursuant to the Act including Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (NMAC), (20.2.72 NMAC), Construction Permits and is enforceable pursuant to the Act and the air quality control regulations applicable to this source.
- B. The Department is the Administrator for 40 CFR Parts 60, 61, and 63 pursuant to the delegation and exceptions of Section 10 of 20.2.77 NMAC (NSPS), 20.2.78 NMAC (NESHAP), and 20.2.82 NMAC (MACT).

#### **B103 Annual Fee**

- A. The Department will assess an annual fee for this Facility. The regulation 20.2.75 NMAC set the fee amount at \$1,500 through 2004 and requires it to be adjusted annually for the Consumer Price Index on January 1. The current fee amount is available by contacting the Department or can be found on the Department's website. The AQB will invoice the permittee for the annual fee amount at the beginning of each calendar year. This fee does not apply to sources which are assessed an annual fee in accordance with 20.2.71 NMAC. For sources that satisfy the definition of "small business" in 20.2.75.7.F NMAC, this annual fee will be divided by two. (20.2.75.11 NMAC)
- B. All fees shall be remitted in the form of a corporate check, certified check, or money order made payable to the "NM Environment Department, AQB" mailed to the address shown on the invoice and shall be accompanied by the remittance slip attached to the invoice.

#### **B104 Appeal Procedures**

- A. Any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for hearing before the Environmental Improvement Board. The petition shall be made in writing to the

Environmental Improvement Board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered and attach a copy of the permitting action for which review is sought. Unless a timely request for hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent to: (20.2.72.207.F NMAC)

For Mailing:

Administrator, New Mexico Environmental Improvement Board  
P.O. Box 5469  
Santa Fe, NM 87502-5469

For Hand Delivery:

Administrator, New Mexico Environmental Improvement Board  
1190 St. Francis Drive, Harold Runnels Bldg.  
Santa Fe, New Mexico 87505

#### **B105 Submittal of Reports and Certifications**

- A. Stack Test Protocols and Stack Test Reports shall be submitted electronically to the Air Quality Bureau Compliance Reporting (AQBCR) system or as directed by the Department.
- B. Excess Emission Reports shall be submitted as directed by the Department. (20.2.7.110 NMAC)
- C. Routine reports shall be submitted to the mailing address below, or as directed by the Department:

Manager, Compliance and Enforcement Section  
New Mexico Environment Department  
Air Quality Bureau  
525 Camino de los Marquez, Suite 1  
Santa Fe, NM 87505

#### **B106 NSPS and/or MACT Startup, Shutdown, and Malfunction Operations**

- A. If a facility is subject to a NSPS standard in 40 CFR 60, each owner or operator that installs and operates a continuous monitoring device required by a NSPS regulation shall comply with the excess emissions reporting requirements in accordance with 40 CFR 60.7(c), unless specifically exempted in the applicable subpart.



- B. If a facility is subject to a NSPS standard in 40 CFR 60, then in accordance with 40 CFR 60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
- C. If a facility is subject to a MACT standard in 40 CFR 63, then the facility is subject to the requirement for a Startup, Shutdown and Malfunction Plan (SSM) under 40 CFR 63.6(e)(3), unless specifically exempted in the applicable subpart.

#### **B107 Startup, Shutdown, and Maintenance Operations**

- A. The establishment of permitted startup, shutdown, and maintenance (SSM) emission limits does not supersede the requirements of 20.2.7.14.A NMAC. Except for operations or equipment subject to Condition B106, the permittee shall establish and implement a plan to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM work practice plan) and shall operate in accordance with the procedures set forth in the plan. (SSM work practice plan) (20.2.7.14.A NMAC)

#### **B108 General Monitoring Requirements**

- A. These requirements do not supersede or relax requirements of federal regulations.
- B. The following monitoring requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in this permit constitutes noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in this permit; but such requirement shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.
- C. If the emission unit is shutdown at the time when periodic monitoring is due to be completed, the permittee is not required to restart the unit for the sole purpose of conducting the monitoring. Using electronic or written mail, the permittee shall notify the Department's Compliance and Enforcement Section of a delay in emission tests prior to the deadline for completing the tests. Upon recommencing operation, the permittee shall submit pre-test notification(s) to the Department's Compliance and Enforcement Section and shall complete the monitoring.

- D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to invoke the monitoring period exemption at B108.D(2), hours of operation shall be monitored and recorded.
- (1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period.
  - (2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods.
  - (3) If invoking the monitoring **period** exemption in B108.D(2), the actual operating time of a unit shall not exceed the monitoring period required by this permit before the required monitoring is performed. For example, if the monitoring period is annual, the operating hours of the unit shall not exceed 8760 hours before monitoring is conducted. Regardless of the time that a unit actually operates, a minimum of one of each type of monitoring activity shall be conducted during any five-year period.
- E. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in this permit, or in the permit application if not in the permit, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report.
- F. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities. Compliance tests from previous NSR and Title V permits may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions.
- G. If monitoring is new or is in addition to monitoring imposed by an existing applicable requirement, it shall become effective 120 days after the date of permit issuance. For emission units that have not commenced operation, the associated new or additional monitoring shall not apply until 120 days after the units commence operation. All pre-existing monitoring requirements incorporated in this permit shall continue to apply from the date of permit issuance.
- H. Unless otherwise indicated by Specific Conditions or regulatory requirements, all instrumentation used for monitoring in accordance with applicable requirements including emission limits, to measure parameters including but not limited to flow, temperature, pressure and chemical composition, or used to continuously monitor

emission rates and/or other process operating parameters, shall be subject to the following requirements:

- (1) The owner or operator shall install, calibrate, operate and maintain monitoring instrumentation (monitor) according to the manufacturer's procedures and specifications and the following requirements.
  - (a) The monitor shall be located in a position that provides a representative measurement of the parameter that is being monitored.
  - (b) At a minimum, the monitor shall complete one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.
  - (c) At a minimum, the monitor shall be spanned to measure the normal range +/- 5% of the parameter that is being monitored.
  - (d) At least semi-annually, perform a visual inspection of all components of the monitor for physical and operational integrity and all electrical connections for oxidation and galvanic corrosion.
  - (e) Recalibrate the monitor in accordance with the manufacturer's procedures and specifications at the frequency specified by the manufacturer, or every two years, whichever is less.
- (2) Except for malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall operate and maintain all monitoring equipment at all times that the emissions unit or the associated process is operating.
- (3) The monitor shall measure data for a minimum of 90 percent of the time that the emissions unit or the associated process is in operation, based on a calendar monthly average.
- (4) The owner or operator shall maintain records in accordance with Section B109 to demonstrate compliance with the requirements in B108H (1)-(3) above, as applicable.

### **B109 General Recordkeeping Requirements**

- A. The permittee shall maintain records to assure and verify compliance with the terms and conditions of this permit and any other applicable requirements that become effective after permit issuance. The minimum information to be included in these records is as follows:
  - (1) Records required for testing and sampling:
    - (a) equipment identification (include make, model and serial number for all tested equipment and emission controls)
    - (b) date(s) and time(s) of sampling or measurements
    - (c) date(s) analyses were performed

- (d) the qualified entity that performed the analyses
  - (e) analytical or test methods used
  - (f) results of analyses or tests
  - (g) operating conditions existing at the time of sampling or measurement
- (2) Records required for equipment inspections and/or maintenance required by this permit:
- (a) equipment identification number (including make, model and serial number)
  - (b) date(s) and time(s) of inspection, maintenance, and/or repair
  - (c) date(s) any subsequent analyses were performed (if applicable)
  - (d) name of the person or qualified entity conducting the inspection, maintenance, and/or repair
  - (e) copy of the equipment manufacturer's or the owner or operator's maintenance or repair recommendations (if required to demonstrate compliance with a permit condition)
  - (f) description of maintenance or repair activities conducted
  - (g) all results of any required parameter readings
  - (h) a description of the physical condition of the equipment as found during any required inspection
  - (i) results of required equipment inspections including a description of any condition which required adjustment to bring the equipment back into compliance and a description of the required adjustments
- B. Except as provided in the Specific Conditions, records shall be maintained on-site or at the permittee's local business office for a minimum of two (2) years from the time of recording and shall be made available to Department personnel upon request. Sources subject to 20.2.70 NMAC "Operating Permits" shall maintain records on-site for a minimum of five (5) years from the time of recording.
- C. Unless otherwise indicated by Specific Conditions, the permittee shall keep the following records for malfunction emissions and routine or predictable emissions during startup, shutdown, and scheduled maintenance (SSM):
- (1) The owner or operator of a source subject to a permit shall establish and implement a plan to minimize emissions during routine or predictable startup, shutdown, and scheduled maintenance through work practice standards and good air pollution control practices. This requirement shall not apply to any affected facility defined in and subject to an emissions standard and an equivalent plan under 40 CFR Part 60 (NSPS), 40 CFR Part 63 (MACT), or an equivalent plan under 20.2.72 NMAC - Construction Permits, 20.2.70 NMAC - Operating Permits, 20.2.74 NMAC -

Permits - Prevention of Significant Deterioration (PSD), or 20.2.79 NMAC - Permits - Nonattainment Areas. The permittee shall keep records of all sources subject to the plan to minimize emissions during routine or predictable SSM and shall record if the source is subject to an alternative plan and therefore, not subject to the plan requirements under 20.2.7.14.A NMAC.

- (2) If the facility has allowable SSM emission limits in this permit, the permittee shall record all SSM events, including the date, the start time, the end time, a description of the event, and a description of the cause of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source. The authorization of allowable SSM emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.
- (3) If the facility has allowable malfunction emission limits in this permit, the permittee shall record all malfunction events to be applied against these limits. The permittee shall also include the date, the start time, the end time, and a description of the event. **Malfunction means** any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (20.2.7.7.E NMAC) The authorization of allowable malfunction emissions does not supersede any applicable federal or state standard. The most stringent requirement applies. This authorization only allows the permittee to avoid submitting reports under 20.2.7 NMAC for total annual emissions that are below the authorized malfunction emission limit.
- (4) The owner or operator of a source shall meet the operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup or shutdown. (20.2.72.203.A(5) NMAC)

#### **B110 General Reporting Requirements**

(20.2.72 NMAC Sections 210 and 212)

- A. Records and reports shall be maintained on-site or at the permittee's local business office unless specifically required to be submitted to the Department or EPA by another condition of this permit or by a state or federal regulation. Records for unmanned sites may be kept at the nearest business office.
- B. The permittee shall notify the Department's Compliance Reporting Section using the current Submittal Form posted to NMED's Air Quality web site under Compliance and Enforcement/Submittal Forms in writing of, or provide the Department with (20.2.72.212.A and B):

- (1) the anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Notification may occur prior to issuance of the permit, but actual startup shall not occur earlier than the permit issuance date;
  - (2) after receiving authority to construct, the equipment serial number as provided by the manufacturer or permanently affixed if shop-built and the actual date of initial startup of each new or modified source within fifteen (15) days after the startup date; and
  - (3) the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date.
- C. The permittee shall notify the Department's Permitting Program Manager, in writing of, or provide the Department with (20.2.72.212.C and D):
- (1) any change of operators or any equipment substitutions within fifteen (15) days of such change;
  - (2) any necessary update or correction no more than sixty (60) days after the operator knows or should have known of the condition necessitating the update or correction of the permit.
- D. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. The number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data shall be used to calculate and report test results in accordance with 20.2.1.116.B and C NMAC. Upon request by the Department, CEMS and other tabular data shall be submitted in editable, MS Excel format.
- E. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC.
- F. Allowable Emission Limits for Excess Emissions Reporting for Flares and Other Regulated Sources with No Pound per Hour (pph) and/or Ton per Year (tpy) Emission Limits.
- (1) When a flare has no allowable pph and/or tpy emission limits in Sections A106 and/or A107, the authorized allowable emissions include only the combustion of pilot and/or purge gas. Compliance is demonstrated by limiting the gas stream to the flare to only pilot and/or purge gas.
  - (2) For excess emissions reporting as required by 20.2.7 NMAC, the allowable emission limits are 1.0 pph and 1.0 tpy for each regulated air pollutant (except for H<sub>2</sub>S) emitted by that source as follows:
    - (a) For flares, when there are no allowable emission limits in Sections A106 and/or A107.

- (b) For regulated sources with emission limits in Sections A106 or A107 represented by the less than sign (“<”).
  - (c) For regulated sources that normally would not emit any regulated air pollutants, including but not limited to vents, pressure relief devices, connectors, etc.
- (3) For excess emissions reporting as required by 20.2.7 NMAC for H<sub>2</sub>S, the allowable limits are 0.1 pph and 0.44 tpy for each applicable scenario addressed in paragraph (2) above.

### **B111 General Testing Requirements**

Unless otherwise indicated by Specific Conditions or regulatory requirements, the permittee shall conduct testing in accordance with the requirements in Sections B111A, B, C, D and E, as applicable.

#### **A. Initial Compliance Tests**

The permittee shall conduct initial compliance tests in accordance with the following requirements:

- (1) Initial compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed. Compliance tests may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions. (20.2.72 NMAC Sections 210.C and 213)
- (2) Initial compliance tests shall be conducted within sixty (60) days after the unit(s) achieve the maximum normal production rate. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source.
- (3) The default time period for each test run shall be **at least** 60 minutes and each performance test shall consist of three separate runs using the applicable test method. For the purpose of determining compliance with an applicable emission limit, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Department approval, be determined using the arithmetic mean of the results of the two other runs.
- (4) Testing of emissions shall be conducted with the emissions unit operating at 90 to 100 percent of the maximum operating rate allowed by the permit. If it is not possible to test at that rate, the source may test at a lower operating rate

- (5) Testing performed at less than 90 percent of permitted capacity will limit emission unit operation to 110 percent of the tested capacity until a new test is conducted.
- (6) If conditions change such that unit operation above 110 percent of tested capacity is possible, the source must submit a protocol to the Department within 30 days of such change to conduct a new emissions test.

B. EPA Reference Method Tests

The test methods in Section B111.B(1) shall be used for all initial compliance tests and all Relative Accuracy Test Audits (RATAs), and shall be used if a permittee chooses to use EPA test methods for periodic monitoring. Test methods that are not listed in Section B111.B(1) may be used in accordance with the requirements at Section B111.B(2).

- (1) All compliance tests required by this permit shall be conducted in accordance with the requirements of CFR Title 40, Part 60, Subpart A, General Provisions, and the following EPA Reference Methods as specified by CFR Title 40, Part 60, Appendix A:
  - (a) Methods 1 through 4 for stack gas flowrate
  - (b) Method 5 for particulate matter (PM)
  - (c) Method 6C SO<sub>2</sub>
  - (d) Method 7E for NO<sub>x</sub> (test results shall be expressed as nitrogen dioxide (NO<sub>2</sub>) using a molecular weight of 46 lb/lb-mol in all calculations (each ppm of NO/NO<sub>2</sub> is equivalent to 1.194 x 10<sup>-7</sup> lb/SCF)
  - (e) Method 9 for visual determination of opacity
  - (f) Method 10 for CO
  - (g) Method 19 for particulate, sulfur dioxide and nitrogen oxides emission rates. In addition, Method 19 may be used in lieu of Methods 1-4 for stack gas flowrate. The permittee shall provide a contemporaneous fuel gas analysis (preferably on the day of the test, but no earlier than three months prior to the test date) and a recent fuel flow meter calibration certificate (within the most recent quarter) with the final test report.
  - (h) Method 7E or 20 for Turbines per §60.335 or §60.4400
  - (i) Method 22 for visual determination of fugitive emissions from material sources and smoke emissions from flares
  - (j) Method 25A for VOC reduction efficiency
  - (k) Method 29 for Metals
  - (l) Method 30B for Mercury from Coal-Fired Combustion Sources Using Carbon Sorbent Traps
  - (m) Method 201A for filterable PM<sub>10</sub> and PM<sub>2.5</sub>



- (n) Method 202 for condensable PM
  - (o) Method 320 for organic Hazardous Air Pollutants (HAPs)
  - (2) Permittees may propose test method(s) that are not listed in Section B111.B(1). These methods may be used if prior approval is received from the Department.
- C. Periodic Monitoring and Portable Analyzer Requirements for the Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters
- Periodic emissions tests (periodic monitoring) shall be conducted in accordance with the following requirements:
- (1) Periodic emissions tests may be conducted in accordance with EPA Reference Methods or by utilizing a portable analyzer. Periodic monitoring utilizing a portable analyzer shall be conducted in accordance with the requirements of the current version of ASTM D 6522. However, if a facility has met a previously approved Department criterion for portable analyzers, the analyzer may be operated in accordance with that criterion until it is replaced.
  - (2) The default time period for each test run shall be **at least** 20 minutes.  
Each performance test shall consist of three separate runs. The arithmetic mean of results of the three runs shall be used to determine compliance with the applicable emission limit.
  - (3) Testing of emissions shall be conducted in accordance with the requirements at Section B108.E.
  - (4) During emissions tests, pollutant and diluent concentration shall be monitored and recorded. Fuel flow rate shall be monitored and recorded if stack gas flow rate is determined utilizing Reference Method 19. This information shall be included with the test report furnished to the Department.
  - (5) Stack gas flow rate shall be calculated in accordance with Reference Method 19 utilizing fuel flow rate (scf) determined by a dedicated fuel flow meter and fuel heating value (Btu/scf). The permittee shall provide a contemporaneous fuel gas analysis (preferably on the day of the test, but no earlier than three months prior to the test date) and a recent fuel flow meter calibration certificate (within the most recent quarter) with the final test report. Alternatively, stack gas flow rate may be determined by using EPA Reference Methods 1-4.
  - (6) The permittee shall submit a notification and protocol for periodic emissions tests upon the request of the Department.
- D. Initial Compliance Test and RATA Procedures
- Permittees required to conduct initial compliance tests and/or RATAs shall comply with the following requirements:

- (1) The permittee shall submit a notification and test protocol to the Department's Program Manager, Compliance and Enforcement Section, at least thirty (30) days before the test date and allow a representative of the Department to be present at the test. Proposals to use test method(s) that are not listed in Section B111.B(1) (if applicable) shall be included in this notification.
- (2) Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's Universal Test Notification, Protocol and Report Form and Instructions. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing.
- (3) The permittee shall provide (a) sampling ports adequate for the test methods applicable to the facility, (b) safe sampling platforms, (c) safe access to sampling platforms and (d) utilities for sampling and testing equipment.
- (4) Where necessary to prevent cyclonic flow in the stack, flow straighteners shall be installed

E. General Compliance Test Procedures

The following requirements shall apply to all initial compliance and periodic emissions tests and all RATAs:

- (1) Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete.
- (2) The stack shall be of sufficient height and diameter and the sample ports shall be located so that a representative test of the emissions can be performed in accordance with the requirements of EPA Reference Method 1 or the current version of ASTM D 6522, as applicable.
- (3) Test reports shall be submitted to the Department no later than 30 days after completion of the test.

**B112 Compliance**

- A. The Department shall be given the right to enter the facility at all reasonable times to verify the terms and conditions of this permit. Required records shall be organized by date and subject matter and shall at all times be readily available for inspection. The permittee, upon verbal or written request from an authorized representative of the Department who appears at the facility, shall immediately produce for inspection or copying any records required to be maintained at the facility. Upon written request at other times, the permittee shall deliver to the Department paper or electronic copies of any and all required records maintained on site or at an off-site location. Requested records shall be copied and delivered at the permittee's expense within three business days from receipt of request unless the Department allows additional time. Required records may include records required by permit and other information necessary to

demonstrate compliance with terms and conditions of this permit. (NMSA 1978, Section 74-2-13)

- B. A copy of the most recent permit(s) issued by the Department shall be kept at the permitted facility or (for unmanned sites) at the nearest company office and shall be made available to Department personnel for inspection upon request. (20.2.72.210.B.4 NMAC)
- C. Emissions limits associated with the energy input of a Unit, i.e. lb/MMBtu, shall apply at all times unless stated otherwise in a Specific Condition of this permit. The averaging time for each emissions limit, including those based on energy input of a Unit (i.e. lb/MMBtu) is one (1) hour unless stated otherwise in a Specific Condition of this permit or in the applicable requirement that establishes the limit.

### **B113 Permit Cancellation and Revocation**

- A. The Department may revoke this permit if the applicant or permittee has knowingly and willfully misrepresented a material fact in the application for the permit. Revocation will be made in writing, and an administrative appeal may be taken to the Secretary of the Department within thirty (30) days. Appeals will be handled in accordance with the Department's Rules Governing Appeals From Compliance Orders.
- B. The Department shall automatically cancel any permit for any source which ceases operation for five (5) years or more, or permanently. Reactivation of any source after the five (5) year period shall require a new permit. (20.2.72 NMAC)
- C. The Department may cancel a permit if the construction or modification is not commenced within two (2) years from the date of issuance or if, during the construction or modification, work is suspended for a total of one (1) year. (20.2.72 NMAC)

### **B114 Notification to Subsequent Owners**

- A. The permit and conditions apply in the event of any change in control or ownership of the Facility. No permit modification is required in such case. However, in the event of any such change in control or ownership, the permittee shall notify the succeeding owner of the permit and conditions and shall notify the Department's Program Manager, Permits Section of the change in ownership within fifteen (15) days of that change. (20.2.72.212.C NMAC)
- B. Any new owner or operator shall notify the Department's Program Manager, Permits Section, within thirty (30) days of assuming ownership, of the new owner's or operator's name and address. (20.2.73.200.E.3 NMAC)

**B115 Asbestos Demolition**

- A. Before any asbestos demolition or renovation work, the permittee shall determine whether 40 CFR 61 Subpart M, National Emissions Standards for Asbestos applies. If required, the permittee shall notify the Department's Program Manager, Compliance and Enforcement Section using forms furnished by the Department.

**B116 Short Term Engine Replacement**

- A. The following Alternative Operating Scenario (AOS) addresses engine breakdown or periodic maintenance and repair, which requires the use of a short term replacement engine. The following requirements do not apply to engines that are exempt per 20.2.72.202.B(3) NMAC. Changes to exempt engines must be reported in accordance with 20.2.72.202.B NMAC. A short term replacement engine may be substituted for any engine allowed by this permit for no more than 120 days in any rolling twelve month period per permitted engine. The compliance demonstrations required as part of this AOS are in addition to any other compliance demonstrations required by this permit.
- (1) The permittee may temporarily replace an existing engine that is subject to the emission limits set forth in this permit with another engine regardless of manufacturer, model, and horsepower without modifying this permit. The permittee shall submit written notification to the Department within 15 days of the date of engine substitution according to condition B110.C(1).
- (a) The potential emission rates of the replacement engine shall be determined using the replacement engine's manufacturer specifications and shall comply with the existing engine's permitted emission limits.
- (b) The direction of the exhaust stack for the replacement engine shall be either vertical or the same direction as for the existing engine. The replacement engine's stack height and flow parameters shall be at least as effective in the dispersion of air pollutants as the modeled stack height and flow parameters for the existing permitted engine. The following equation may be used to show that the replacement engine disperses pollutants as well as the existing engine. The value calculated for the replacement engine on the right side of the equation shall be equal to or greater than the value for the existing engine on the left side of the equation. The permitting page of the Air Quality Bureau website contains a spreadsheet that performs this calculation.

EXISTING ENGINEREPLACEMENT ENGINE

$$\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} \leq \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$$

Where

$g$  = gravitational constant = 32.2 ft/sec<sup>2</sup>

$h_1$  = existing stack height, feet

$v_1$  = exhaust velocity, existing engine, feet per second

$c$  = specific heat of exhaust, 0.28 BTU/lb-degree F

$T_1$  = absolute temperature of exhaust, existing engine = degree F + 460

$q_1$  = permitted allowable emission rate, existing engine, lbs/hour

$h_2$  = replacement stack height, feet

$v_2$  = exhaust velocity, replacement engine, feet per second

$T_2$  = absolute temperature of exhaust, replacement engine = degree F + 460

$q_2$  = manufacturer's potential emission rate, replacement engine, lbs/hour

The permittee shall keep records showing that the replacement engine is at least as effective in the dispersion of air pollutants as the existing engine.

- (c) Test measurement of NO<sub>x</sub> and CO emissions from the temporary replacement engine shall be performed in accordance with Section B111 with the exception of Condition B111A(2) and B111B for EPA Reference Methods Tests or Section B111C for portable analyzer test measurements. Compliance test(s) shall be conducted within fifteen (15) days after the unit begins operation, and records of the results shall be kept according to section B109.B. This test shall be performed even if the engine is removed prior to 15 days on site.
- i. These compliance tests are not required for an engine certified under 40CFR60, subparts IIII, or JJJJ, or 40CFR63, subpart ZZZZ if the permittee demonstrates that one of these requirements causes such engine to comply with all emission limits of this permit. The permittee shall submit this demonstration to the Department within 48 hours of placing the new unit into operation. This submittal shall include documentation that the engine is certified, that the engine is within its useful life, as defined and specified in the applicable requirement, and shall include calculations showing that the applicable emissions standards result in compliance with the permit limits.
  - ii. These compliance tests are not required if a test was conducted by portable analyzer or by EPA Method test (including any required by 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) within the last 12 months. These previous tests are valid only if conducted at the same or lower elevation as the existing engine location prior to commencing operation as a temporary replacement. A copy of the test results shall be kept according to section B109.B.

- (d) Compliance tests for NO<sub>x</sub> and CO shall be conducted if requested by the Department in writing to determine whether the replacement engine is in compliance with applicable regulations or permit conditions.
  - (e) Upon determining that emissions data developed according to B116.A.1(c) fail to indicate compliance with either the NO<sub>x</sub> or CO emission limits, the permittee shall notify the Department within 48 hours. Also within that time, the permittee shall implement one of the following corrective actions:
    - i. The engine shall be adjusted to reduce NO<sub>x</sub> and CO emissions and tested per B116.A.1(c) to demonstrate compliance with permit limits.
    - ii. The engine shall discontinue operation or be replaced with a different unit.
- (2) Short term replacement engines, whether of the same manufacturer, model, and horsepower, or of a different manufacturer, model, or horsepower, are subject to all federal and state applicable requirements, regardless of whether they are set forth in this permit (including monitoring and recordkeeping), and shall be subject to any shield afforded by this permit.
  - (3) The permittee shall maintain a contemporaneous record documenting the unit number, manufacturer, model number, horsepower, emission factors, emission test results, and serial number of any existing engine that is replaced, and the replacement engine. Additionally, the record shall document the replacement duration in days, and the beginning and end dates of the short term engine replacement.
  - (4) The permittee shall maintain records of a regulatory applicability determination for each replacement engine (including 40CFR60, subparts III and JJJJ and 40CFR63, subpart ZZZZ) and shall comply with all associated regulatory requirements.
- B. Additional requirements for replacement of engines at sources that are major as defined in regulation 20.2.74 NMAC, Permits – Prevention of Significant Deterioration, section 7.AG. For sources that are major under PSD, the total cumulative operating hours of the replacement engine shall be limited using the following procedure:
- (1) Daily, the actual emissions from the replacement engine(s) of each pollutant regulated by this permit for the existing engine shall be calculated and recorded.
  - (2) The sum of the total actual emissions since the commencement of operation of the replacement engine(s) shall not equal or exceed the significant emission rates in Table 2 of 20.2.74 NMAC, section 502 for the time that the replacement engine is located at the facility.
- C. All records required by this section shall be kept according to section B109.

**PART C MISCELLANEOUS****C100 Supporting On-Line Documents**

- A. Copies of the following documents can be downloaded from NMED's web site under Compliance and Enforcement or requested from the Bureau.
- (1) Excess Emission Form (for reporting deviations and emergencies)
  - (2) Universal Stack Test Notification, Protocol and Report Form and Instructions

**C101 Definitions**

- A. **"Daylight"** is defined as the time period between sunrise and sunset, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data for one day or a table of sunrise/sunset for an entire year can be obtained at <http://aa.usno.navy.mil/>. Alternatively, these times can be obtained from a Farmer's Almanac or from <http://www.almanac.com/rise/>).
- B. **"Decommission"** and **"Decommissioning"** applies to units left on site (not removed) and is defined as the complete disconnecting of equipment, emission sources or activities from the process by disconnecting all connections necessary for operation (i.e. piping, electrical, controls, ductwork, etc.).
- C. **"Exempt Sources"** and **"Exempt Activities"** is defined as those sources or activities that are exempted in accordance with 20.2.72.202 NMAC. Note; exemptions are only valid for most 20.2.72 NMAC permitting actions.
- D. **"Fugitive Emission"** means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.
- E. **"Insignificant Activities"** means those activities which have been listed by the department and approved by the administrator as insignificant on the basis of size, emissions or production rate. Note; insignificant activities are only valid for 20.2.70 NMAC permitting actions.
- F. **"Malfunction"** for the requirements under 20.2.7 NMAC, means any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (20.2.7.7.E NMAC)
- G. **"Natural Gas"** is defined as a naturally occurring fluid mixture of hydrocarbons that contains 20.0 grains or less of total sulfur per 100 standard cubic feet (SCF) and is either composed of at least 70% methane by volume or has a gross calorific value of between 950 and 1100 Btu per standard cubic foot. (40 CFR 60.631)

- H. **“Natural Gas Liquids”** means the hydrocarbons, such as ethane, propane, butane, and pentane, that are extracted from field gas. (40 CFR 60.631)
- I. **“National Ambient air Quality Standards”** means, unless otherwise modified, the primary (health-related) and secondary (welfare-based) federal ambient air quality standards promulgated by the US EPA pursuant to Section 109 of the Federal Act.
- J. **“Night”** is the time period between sunset and sunrise, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data for one day or a table of sunrise/sunset for an entire year can be obtained at <http://aa.usno.navy.mil/>. Alternatively, these times can be obtained from a Farmer’s Almanac or from <http://www.almanac.com/rise/>).
- K. **“Night Operation or Operation at Night”** is operating a source of emissions at night.
- L. **“NO<sub>2</sub>”** or "Nitrogen dioxide" means the chemical compound containing one atom of nitrogen and two atoms of oxygen, for the purposes of ambient determinations. The term "**nitrogen dioxide**," for the purposes of stack emissions monitoring, shall include nitrogen dioxide (the chemical compound containing one atom of nitrogen and two atoms of oxygen), nitric oxide (the chemical compound containing one atom of nitrogen and one atom of oxygen), and other oxides of nitrogen which may test as nitrogen dioxide and is sometimes referred to as NO<sub>x</sub> or NO<sub>2</sub>. (20.2.2 NMAC)
- M. **“NO<sub>x</sub>”** see NO<sub>2</sub>
- N. **“Paved Road”** is a road with a permanent solid surface that can be swept essentially free of dust or other material to reduce air re-entrainment of particulate matter. To the extent these surfaces remain solid and contiguous they qualify as paved roads: concrete, asphalt, chip seal, recycled asphalt and other surfaces approved by the Department in writing.
- O. **“Potential Emission Rate”** means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal Act.
- P. **“Restricted Area”** is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.



- Q. **"Shutdown"** for requirements under 20.2.72 NMAC, means the cessation of operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing out of batch process units.
- R. **"SSM"** for requirements under 20.2.7 NMAC, means routine or predictable startup, shutdown, or scheduled maintenance.
  - (1) **"Shutdown"** for requirements under 20.2.7 NMAC, means the cessation of operation of any air pollution control equipment or process equipment.
  - (2) **"Startup"** for requirements under 20.2.7 NMAC, means the setting into operation of any air pollution control equipment or process equipment.
- S. **"Startup"** for requirements under 20.2.72 NMAC, means the setting into operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing in of batch process units.

**C102 Acronyms**

|                        |   |
|------------------------|---|
| 2SLB .....             | 2-stroke lean burn                            |
| 4SLB .....             | 4-stroke lean burn                            |
| 4SRB .....             | 4-stroke rich burn                            |
| acfm .....             | actual cubic feet per minute                  |
| AFR .....              | air fuel ratio                                |
| AP-42 .....            | EPA Air Pollutant Emission Factors            |
| AQB .....              | Air Quality Bureau                            |
| AQCR .....             | Air Quality Control Region                    |
| ASTM .....             | American Society for Testing and Materials    |
| Btu .....              | British thermal unit                          |
| CAA .....              | Clean Air Act of 1970 and 1990 Amendments     |
| CEM .....              | continuous emissions monitoring               |
| cfh .....              | cubic feet per hour                           |
| cfm .....              | cubic feet per minute                         |
| CFR .....              | Code of Federal Regulation                    |
| CI .....               | compression ignition                          |
| CO .....               | carbon monoxides                              |
| COMS .....             | continuous opacity monitoring system          |
| EIB .....              | Environmental Improvement Board               |
| EPA .....              | United States Environmental Protection Agency |
| gr/100 cf .....        | grains per one hundred cubic feet             |
| gr/dscf .....          | grains per dry standard cubic foot            |
| GRI .....              | Gas Research Institute                        |
| HAP .....              | hazardous air pollutant                       |
| hp .....               | horsepower                                    |
| H <sub>2</sub> S ..... | hydrogen sulfide                              |
| IC .....               | internal combustion                           |
| KW/hr .....            | kilowatts per hour                            |

|                         |   |
|-------------------------|---|
| lb/hr .....             | pounds per hour   |
| lb/MMBtu .....          | pounds per million British thermal unit                             |
| MACT .....              | Maximum Achievable Control Technology                               |
| MMcf/hr .....           | million cubic feet per hour   |
| MMscf .....             | million standard cubic feet   |
| N/A .....               | not applicable  |
| NAAQS .....             | National Ambient Air Quality Standards                              |
| NESHAP .....            | National Emission Standards for Hazardous Air Pollutants            |
| NG .....                | natural gas   |
| NGL .....               | natural gas liquids   |
| NMAAQS .....            | New Mexico Ambient Air Quality Standards                            |
| NMAC .....              | New Mexico Administrative Code                                      |
| NMED .....              | New Mexico Environment Department                                   |
| NMSA .....              | New Mexico Statues Annotated  |
| NO <sub>x</sub> .....   | nitrogen oxides   |
| NSCR .....              | non-selective catalytic reduction                                   |
| NSPS .....              | New Source Performance Standard                                     |
| NSR .....               | New Source Review   |
| PEM .....               | parametric emissions monitoring                                     |
| PM .....                | particulate matter (equivalent to TSP, total suspended particulate) |
| PM <sub>10</sub> .....  | particulate matter 10 microns and less in diameter                  |
| PM <sub>2.5</sub> ..... | particulate matter 2.5 microns and less in diameter                 |
| pph .....               | pounds per hour   |
| ppmv .....              | parts per million by volume   |
| PSD .....               | Prevention of Significant Deterioration                             |
| RATA .....              | Relative Accuracy Test Assessment                                   |
| RICE .....              | reciprocating internal combustion engine                            |
| rpm .....               | revolutions per minute  |
| scfm .....              | standard cubic feet per minute                                      |
| SI .....                | spark ignition  |
| SO <sub>2</sub> .....   | sulfur dioxide  |
| SSM .....               | Startup Shutdown Maintenance (see SSM definition)                   |
| TAP .....               | Toxic Air Pollutant   |
| TBD .....               | to be determined  |
| THC .....               | total hydrocarbons  |
| TSP .....               | Total Suspended Particulates  |
| tpy .....               | tons per year   |
| ULSD .....              | ultra low sulfur diesel   |
| USEPA .....             | United States Environmental Protection Agency                       |
| UTM .....               | Universal Transverse Mercator Coordinate system                     |
| UTMH .....              | Universal Transverse Mercator Horizontal                            |
| UTMV .....              | Universal Transverse Mercator Vertical                              |
| VHAP .....              | volatile hazardous air pollutant                                    |
| VOC .....               | volatile organic compounds  |