

**BUREAU OF AIR POLLUTION CONTROL**

**Facility ID No. A0394**

**Permit No. AP1041-2806**

**CLASS I OPERATING PERMIT TO CONSTRUCT**

Issued to: Round Mountain Gold (SVCO) as Permittee

**Section V. Specific Operating Conditions (continued)**

**BB. Emission Unit S2.163**

Location North 4,290.236 km, East 493.924 km, UTM (Zone 11)

<b>System GH13 – Portable Standby Generator GHGEN1</b>
S 2.163 Generator (537 HP, 400 kW) – Model Year 2011 or later

**Descriptive Stack Parameters for S2.163**

Stack Height (ft): 8  
Stack Diameter (ft): 0.5  
Stack Temperature (°F): 942.1  
Stack Exhaust Flow (DSCFM): 3,842

**1. Air Pollution Equipment**

S2.163 has no add-on controls.

**2. Construction Requirements**

Notification and Recordkeeping (40 CFR Part 60.7, NAC 445B.250, NAC 445B.346.2)

The Permittee shall provide the Director the following:

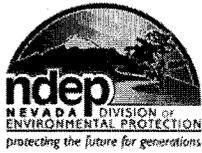
- a. A notification of the date of construction of S2.163 is commenced, postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form (40 CFR 60.7(a)(1); NAC 445B.250.1)
- b. A notification of the anticipated date of initial startup of S2.163, postmarked not more than 60 days nor less than 30 days prior to such date (NAC 445B.250.2).
- c. A notification of the actual date of initial startup of S2.163, postmarked within 15 days after such date (40 CFR 60.7(a)(3); NAC 445B.250.3).
- d. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice (40 CFR 60.7(a)(4)).

**3. Operating Requirements (NAC 445B.3365.3)**

a. Emission Limits (NAC 445B.305)(40 CFR 60.4200 et. seq.)

On and after the date of startup, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of S2.163 the following pollutants in excess of the following specified limits:

- (1) The discharge of PM to the atmosphere will not exceed 0.18 pound per hour, nor more than 0.11 ton per year.
- (2) The discharge of PM<sub>10</sub> to the atmosphere will not exceed 0.18 pound per hour, nor more than 0.11 ton per year.
- (3) The discharge of SO<sub>2</sub> to the atmosphere will not exceed 1.42 pounds per hour, nor more than 0.89 ton per year.
- (4) The discharge of NO<sub>x</sub> to the atmosphere will not exceed 3.53 pounds per hour, nor more than 2.20 ton per year.
- (5) The discharge of CO to the atmosphere will not exceed 3.09 pounds per hour, nor more than 1.93 tons per year.
- (6) The discharge of VOC to the atmosphere will not exceed 3.53 pound per hour, nor more than 2.20 ton per year.
- (7) New Source Performance Standards (NSPS) – Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE) (40 CFR Part 60, Subpart IIII, 40 CFR 60.4200 et. seq.).
  - (i) The discharge of PM to the atmosphere will not exceed 0.2 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 225 – 450 kW, 40 CFR 89.112, Table 1).
  - (ii) The discharge of NO<sub>x</sub> + NMHC to the atmosphere will not exceed 4 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 225 – 450 kW, 40 CFR 89.112, Table 1).
  - (iii) The discharge of CO to the atmosphere will not exceed 3.5 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 225 – 450 kW, 40 CFR 89.112, Table 1).
- (8) National Emission Standards for Hazardous Air Pollutants (NESHAP) – NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 et. seq.) – New or Reconstructed stationary RICE located at an Area Source (40 CFR 6590(c)(1)). No further requirements under 40 CFR Part 63, Subpart ZZZZ apply to stationary RICE meeting the requirements of 40 CFR Part 60, Subpart IIII (40 CFR 63.6590(c)).
- (9) The opacity from S2.163 will not equal or exceed 20 percent in accordance with NAC 445B.22017.



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**Section V. Specific Operating Conditions (continued)**

**BB. Emission Unit S2.163 (continued)**

**3. Operating Requirements (NAC 445B.3365.3)(continued)**

**b. Operating Parameters (NAC 445B.305; 40 CFR 60.4200 et. seq.)**

- (1) The maximum allowable diesel fuel combustion rate for **S2.163** will not exceed 35 gallons per hour.
- (2) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR Part 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel (40 CFR 60.4207(b)). The diesel fuel sulfur limit for **S2.163** will not exceed 15 ppm by weight.
- (3) Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204, as set forth in 3.a.(7) above, according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine (40 CFR 60.4206).
- (4) If you (Permittee) are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, as set forth in 3.a.(7) above, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached (40 CFR 60.4209(b)).
- (5) Hours  
**S2.163** may operate up to 24 hours per day, but not more than 1,250 hours per 12-month rolling period.

**c. Monitoring and Recordkeeping NAC 445B.3365**

On and after the date of startup of **S2.163**, Permittee will maintain in a contemporaneous log, the following monitoring and recordkeeping:

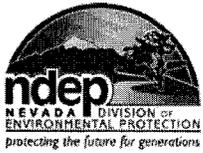
- (1) The calendar date of any required monitoring and recordkeeping.
- (2) Monitor and record the amount of diesel fuel combusted (in gallons) for **S2.163** on a daily basis.
- (3) Monitor and record the number of 1-hour periods **S2.163** operates during each day of operation.
- (4) Maintain a certification on file from the fuel supplier that certifies the fuel delivered complies with the sulfur limit specified in BB.3.b.(2) of this section.
- (5) The daily average hourly fuel combustion rate determined using the monitoring required in 3.c.(2) and 3.c.(3) above.
- (6) Record the monthly and 12-month rolling hours of operation. The monthly hours of operation will be determined at the end of each calendar month as the sum of the daily hours of operation recorded in 3.c.(3) above. The 12-month rolling hours of operation will be determined at the end of each calendar month as the sum of the monthly hours of operation for the 12 preceding calendar months.

**d. Test Methods and Procedures (NAC 445B.3365.3)**

- (1) Within 60 days after achieving the maximum production rate at which **S2.163** will be operated, but no later than 180 days after initial startup of the facility, the Permittee shall determine compliance with the opacity standard established in BB.3.a. of this section by conducting a visible emissions test on **S2.163** while operating. The initial opacity test shall be performed using EPA Method 9 as specified in 40 CFR Part 60, Appendix A. The time of observations shall be 6 minutes (24 consecutive readings at 15-second intervals). The Method 9 performance test shall be conducted by a certified visible emissions reader in accordance with procedures specified in 40 CFR Part 60, Appendix A, Method 9.
- (2) The Permittee shall provide notification of the anticipated date for conducting the initial opacity observations. The notification shall be postmarked not less than 30 days prior to such date (NAC 445B.252).

**e. 40 CFR Part 60, Subpart IIII Compliance Requirements for Owners and Operators (40 CFR 60.4211)**

- (1) If you (Permittee) are an owner or operator and must comply with the emission standards specified in 40 CFR Part 60, Subpart IIII, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer (40 CFR 60.4211(a)).
- (2) If you (Permittee) are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4202(b), as set forth in BB.3.a.(7) of this section, you must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications (40 CFR 60.4211(c)).



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**Section V. Specific Operating Conditions (continued)**

**BB. Emission Unit S2.163 (continued)**

**3. Operating Requirements (NAC 445B.3365.3)(continued)**

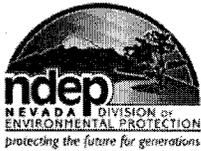
- f. **40 CFR Part 60, Subpart IIII Testing Requirements for Owners and Operators (40 CFR 60.4212)**  
Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112, must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation: NTE Requirement for Each Pollutant = 1.25 x the standard specified for that pollutant in 40 CFR 89.112.
- g. **40 CFR Part 60, Subpart IIII Notification, Reporting, and Recordkeeping Requirements for Owners and Operators (40 CFR 60.4214)**  
If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached (40 CFR 60.4214(c)).

**4. Reporting NAC 445B.3365**

Within 60 days after completing the initial opacity test required in BB.3.d.(1) of this section, the Permittee shall furnish the Director a written report of the results of the opacity observations. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).

**5. Class I Operating Permit Application**

An operating permit to construct expires if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the date of initial start-up (NAC 445B.3366.4).



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# CLASS I OPERATING PERMIT TO CONSTRUCT

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## Section V. Specific Operating Conditions (continued)

### CC. Emission Unit S2.164

Location North 4,291.449 km, East 495.106 km, UTM (Zone 11)

#### System GH14 – Portable Standby Generator GHGEN2

S 2.164 Generator (201 HP, 150 kW) – Model Year 2011 or later

#### Stack Parameters for S2.164

Stack Height (ft): 6

Stack Diameter (ft): 0.5

Stack Temperature (°F): 1,157

Stack Exhaust Flow (DSCFM): 1,112

#### 1. Air Pollution Equipment

S2.164 has no add-on controls.

#### 2. Construction Requirements

Notification and Recordkeeping (40 CFR Part 60.7, NAC 445B.250, NAC 445B.346.2)

The Permittee shall provide the Director the following:

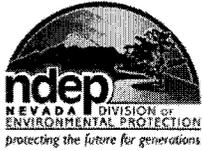
- a. A notification of the date of construction of S2.164 is commenced, postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form (40 CFR 60.7(a)(1); NAC 445B.250.1)
- b. A notification of the anticipated date of initial startup of S2.164, postmarked not more than 60 days nor less than 30 days prior to such date (NAC 445B.250.2).
- c. A notification of the actual date of initial startup of S2.164, postmarked within 15 days after such date (40 CFR 60.7(a)(3); NAC 445B.250.3).
- d. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice (40 CFR 60.7(a)(4)).

#### 3. Operating Requirements (NAC 445B.3365.3)

##### a. Emission Limits (NAC 445B.305)(40 CFR 60.4200 et. seq.)

On and after the date of startup, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of S2.164 the following pollutants in excess of the following specified limits:

- (1) The discharge of PM to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- (2) The discharge of PM<sub>10</sub> to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- (3) The discharge of SO<sub>2</sub> to the atmosphere will not exceed 0.52 pound per hour, nor more than 0.33 ton per year.
- (4) The discharge of NO<sub>x</sub> to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- (5) The discharge of CO to the atmosphere will not exceed 1.16 pound per hour, nor more than 0.72 ton per year.
- (6) The discharge of VOC to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- (7) New Source Performance Standards (NSPS) – Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE) (40 CFR Part 60, Subpart IIII, 40 CFR 60.4200 et. seq.).
  - (i) The discharge of PM to the atmosphere will not exceed 0.2 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - (ii) The discharge of NO<sub>x</sub> + NMHC to the atmosphere will not exceed 4 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - (iii) The discharge of CO to the atmosphere will not exceed 3.5 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
- (8) National Emission Standards for Hazardous Air Pollutants (NESHAP) – NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 et. seq.) – New or Reconstructed stationary RICE located at an Area Source (40 CFR 6590(c)(1)). No further requirements under 40 CFR Part 63, Subpart ZZZZ apply to stationary RICE meeting the requirements of 40 CFR Part 60, Subpart IIII (40 CFR 63.6590(c)).
- (9) The opacity from S2.164 will not equal or exceed 20 percent in accordance with NAC 445B.22017.



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**Section V. Specific Operating Conditions (continued)**

CC. Emission Unit S2.164 (continued)

3. **Operating Requirements (NAC 445B.3365.3)(continued)**

b. **Operating Parameters (NAC 445B.305; 40 CFR 60.4200 et. seq.)**

- (1) The maximum allowable diesel fuel combustion rate for S2.164 will not exceed 12.9 gallons per hour.
- (2) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR Part 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel (40 CFR 60.4207(b)). The diesel fuel sulfur limit for S2.164 will not exceed 15 ppm by weight.
- (3) Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204, as set forth in 3.a.(7) above, according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine (40 CFR 60.4206).
- (4) If you (Permittee) are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, as set forth in 3.a.(7) above, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached (40 CFR 60.4209(b)).
- (5) **Hours**  
S2.164 may operate up to 24 hours per day, but not more than 1,250 hours per 12-month rolling period.

c. **Monitoring and Recordkeeping NAC 445B.3365**

On and after the date of startup of S2.164, Permittee will maintain in a contemporaneous log, the following monitoring and recordkeeping:

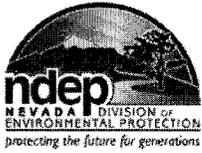
- (1) The calendar date of any required monitoring and recordkeeping.
- (2) Monitor and record the amount of diesel fuel combusted (in gallons) for S2.164 on a daily basis.
- (3) Monitor and record the number of 1-hour periods S2.164 operates during each day of operation.
- (4) Maintain a certification on file from the fuel supplier that certifies the fuel delivered complies with the sulfur limit specified in CC.3.b.(2) of this section.
- (5) The daily average hourly fuel combustion rate determined using the monitoring required in 3.c.(2) and 3.c.(3) above.
- (6) Record the monthly and 12-month rolling hours of operation. The monthly hours of operation will be determined at the end of each calendar month as the sum of the daily hours of operation recorded in 3.c.(3) above. The 12-month rolling hours of operation will be determined at the end of each calendar month as the sum of the monthly hours of operation for the 12 preceding calendar months.

d. **Test Methods and Procedures (NAC 445B.3365.3)**

- (1) Within 60 days after achieving the maximum production rate at which S2.164 will be operated, but no later than 180 days after initial startup of the facility, the Permittee shall determine compliance with the opacity standard established in CC.3.a. of this section by conducting a visible emissions test on S2.164 while operating. The initial opacity test shall be performed using EPA Method 9 as specified in 40 CFR Part 60, Appendix A. The time of observations shall be 6 minutes (24 consecutive readings at 15-second intervals). The Method 9 performance test shall be conducted by a certified visible emissions reader in accordance with procedures specified in 40 CFR Part 60, Appendix A, Method 9.
- (2) The Permittee shall provide notification of the anticipated date for conducting the initial opacity observations. The notification shall be postmarked not less than 30 days prior to such date (NAC 445B.252).

e. **40 CFR Part 60, Subpart IIII Compliance Requirements for Owners and Operators (40 CFR 60.4211)**

- (1) If you (Permittee) are an owner or operator and must comply with the emission standards specified in 40 CFR Part 60, Subpart IIII, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer (40 CFR 60.4211(a)).
- (2) If you (Permittee) are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4202(b), as set forth in CC.3.a.(7) of this section, you must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications (40 CFR 60.4211(c)).



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**Section V. Specific Operating Conditions (continued)**

CC. Emission Unit S2.164 (continued)

3. **Operating Requirements** (NAC 445B.3365.3)(continued)

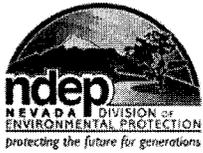
- f. **40 CFR Part 60, Subpart IIII Testing Requirements for Owners and Operators** (40 CFR 60.4212)  
Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112, must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation: NTE Requirement for Each Pollutant = 1.25 x the standard specified for that pollutant in 40 CFR 89.112.
- g. **40 CFR Part 60, Subpart IIII Notification, Reporting, and Recordkeeping Requirements for Owners and Operators** (40 CFR 60.4214)  
If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached (40 CFR 60.4214(c)).

4. **Reporting NAC 445B.3365**

Within 60 days after completing the initial opacity test required in CC.3.d.(1) of this section, the Permittee shall furnish the Director a written report of the results of the opacity observations. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).

5. **Class I Operating Permit Application**

An operating permit to construct expires if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the date of initial start-up (NAC 445B.3366.4).



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### CLASS I OPERATING PERMIT TO CONSTRUCT

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#### Section V. Specific Operating Conditions (continued)

**DD. Emission Unit S2.165**

Location North 4,290.166 km, East 494.690 km, UTM (Zone 11)

<b>System GH15 – Portable Standby Generator GHGEN3</b>
S 2.165 Generator (201 HP, 150 kW) – Model Year 2011 or later

Descriptive Stack Parameters for S2.165

Stack Height (ft): 6

Stack Diameter (ft): 0.5

Stack Temperature (°F): 1,157

Stack Exhaust Flow (DSCFM): 1,112

**1. Air Pollution Equipment**

S2.165 has no add-on controls.

**2. Construction Requirements**

Notification and Recordkeeping (40 CFR Part 60.7, NAC 445B.250, NAC 445B.346.2)

The Permittee shall provide the Director the following:

- A notification of the date of construction of S2.165 is commenced, postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form (40 CFR 60.7(a)(1); NAC 445B.250.1)
- A notification of the anticipated date of initial startup of S2.165, postmarked not more than 60 days nor less than 30 days prior to such date (NAC 445B.250.2).
- A notification of the actual date of initial startup of S2.165, postmarked within 15 days after such date (40 CFR 60.7(a)(3); NAC 445B.250.3).
- A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice (40 CFR 60.7(a)(4)).

**3. Operating Requirements (NAC 445B.3365.3)**

- a. Emission Limits (NAC 445B.305)(40 CFR 60.4200 et. seq.)

On and after the date of startup, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of S2.165 the following pollutants in excess of the following specified limits:

- The discharge of PM to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- The discharge of PM<sub>10</sub> to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- The discharge of SO<sub>2</sub> to the atmosphere will not exceed 0.52 pound per hour, nor more than 0.33 ton per year.
- The discharge of NO<sub>x</sub> to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- The discharge of CO to the atmosphere will not exceed 1.16 pound per hour, nor more than 0.72 ton per year.
- The discharge of VOC to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- New Source Performance Standards (NSPS) – Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE) (40 CFR Part 60, Subpart IIII, 40 CFR 60.4200 et. seq.).
  - The discharge of PM to the atmosphere will not exceed 0.2 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - The discharge of NO<sub>x</sub> + NMHC to the atmosphere will not exceed 4 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - The discharge of CO to the atmosphere will not exceed 3.5 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
- National Emission Standards for Hazardous Air Pollutants (NESHAP) – NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 et. seq.) – New or Reconstructed stationary RICE located at an Area Source (40 CFR 6590(c)(1)). No further requirements under 40 CFR Part 63, Subpart ZZZZ apply to stationary RICE meeting the requirements of 40 CFR Part 60, Subpart IIII (40 CFR 63.6590(c)).
- The opacity from S2.165 will not equal or exceed 20 percent in accordance with NAC 445B.22017.



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**Section V. Specific Operating Conditions (continued)**

**DD. Emission Unit S2.165 (continued)**

**3. Operating Requirements (NAC 445B.3365.3)**

**b. Operating Parameters (NAC 445B.305; 40 CFR 60.4200 et. seq.)**

- (1) The maximum allowable diesel fuel combustion rate for **S2.165** will not exceed 12.9 gallons per hour.
- (2) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR Part 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel (40 CFR 60.4207(b)). The diesel fuel sulfur limit for **S2.165** will not exceed 15 ppm by weight.
- (3) Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204, as set forth in 3.a.(7) above, according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine (40 CFR 60.4206).
- (4) If you (Permittee) are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, as set forth in 3.a.(7) above, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached (40 CFR 60.4209(b)).
- (5) Hours  
**S2.165** may operate up to 24 hours per day, but not more than 1,250 hours per 12-month rolling period.

**c. Monitoring and Recordkeeping NAC 445B.3365**

On and after the date of startup of **S2.165**, Permittee will maintain in a contemporaneous log, the following monitoring and recordkeeping:

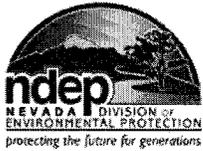
- (1) The calendar date of any required monitoring and recordkeeping.
- (2) Monitor and record the amount of diesel fuel combusted (in gallons) for **S2.165** on a daily basis.
- (3) Monitor and record the number of 1-hour periods **S2.165** operates during each day of operation.
- (4) Maintain a certification on file from the fuel supplier that certifies the fuel delivered complies with the sulfur limit specified in DD.3.b.(2) of this section.
- (5) The daily average hourly fuel combustion rate determined using the monitoring required in 3.c.(2) and 3.c.(3) above.
- (6) Record the monthly and 12-month rolling hours of operation. The monthly hours of operation will be determined at the end of each calendar month as the sum of the daily hours of operation recorded in 3.c.(3) above. The 12-month rolling hours of operation will be determined at the end of each calendar month as the sum of the monthly hours of operation for the 12 preceding calendar months.

**d. Test Methods and Procedures (NAC 445B.3365.3)**

- (1) Within 60 days after achieving the maximum production rate at which **S2.165** will be operated, but no later than 180 days after initial startup of the facility, the Permittee shall determine compliance with the opacity standard established in DD.3.a. of this section by conducting a visible emissions test on **S2.165** while operating. The initial opacity test shall be performed using EPA Method 9 as specified in 40 CFR Part 60, Appendix A. The time of observations shall be 6 minutes (24 consecutive readings at 15-second intervals). The Method 9 performance test shall be conducted by a certified visible emissions reader in accordance with procedures specified in 40 CFR Part 60, Appendix A, Method 9.
- (2) The Permittee shall provide notification of the anticipated date for conducting the initial opacity observations. The notification shall be postmarked not less than 30 days prior to such date (NAC 445B.252).

**e. 40 CFR Part 60, Subpart IIII Compliance Requirements for Owners and Operators (40 CFR 60.4211)**

- (1) If you (Permittee) are an owner or operator and must comply with the emission standards specified in 40 CFR Part 60, Subpart IIII, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer (40 CFR 60.4211(a)).
- (2) If you (Permittee) are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4202(b), as set forth in DD.3.a.(7) of this section, you must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications (40 CFR 60.4211(c)).



**BUREAU OF AIR POLLUTION CONTROL**

**Facility ID No. A0394**

**Permit No. AP1041-2806**

**CLASS I OPERATING PERMIT TO CONSTRUCT**

**Issued to:** Round Mountain Gold (SVCO) as Permittee

**Section V. Specific Operating Conditions (continued)**

**DD. Emission Unit S2.165 (continued)**

**3. Operating Requirements (NAC 445B.3365.3)(continued)**

**f. 40 CFR Part 60, Subpart IIII Testing Requirements for Owners and Operators (40 CFR 60.4212)**

Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112, must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation: NTE Requirement for Each Pollutant = 1.25 x the standard specified for that pollutant in 40 CFR 89.112.

**g. 40 CFR Part 60, Subpart IIII Notification, Reporting, and Recordkeeping Requirements for Owners and Operators (40 CFR 60.4214)**

If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached (40 CFR 60.4214(c)).

**4. Reporting NAC 445B.3365**

Within 60 days after completing the initial opacity test required in DD.3.d.(1) of this section, the Permittee shall furnish the Director a written report of the results of the opacity observations. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).

**5. Class I Operating Permit Application**

An operating permit to construct expires if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the date of initial start-up (NAC 445B.3366.4).



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**Section V. Specific Operating Conditions (continued)**

**EE. Emission Unit S2.166**

Location North 4,291.589 km, East 495.809 km, UTM (Zone 11)

**System GH16 – Portable Standby Generator GHGEN4**

S 2.166 Generator (201 HP, 150 kW) – Model Year 2011 or later

**Descriptive Stack Parameters for S2.166**

Stack Height (ft): 6

Stack Diameter (ft): 0.5

Stack Temperature (°F): 1,157

Stack Exhaust Flow (DSCFM): 1,112

**1. Air Pollution Equipment**

S2.166 has no add-on controls.

**2. Construction Requirements**

Notification and Recordkeeping (40 CFR Part 60.7, NAC 445B.250, NAC 445B.346.2)

The Permittee shall provide the Director the following:

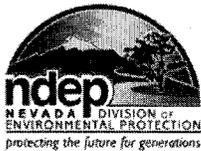
- a. A notification of the date of construction of S2.166 is commenced, postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form (40 CFR 60.7(a)(1); NAC 445B.250.1)
- b. A notification of the anticipated date of initial startup of S2.166, postmarked not more than 60 days nor less than 30 days prior to such date (NAC 445B.250.2).
- c. A notification of the actual date of initial startup of S2.166, postmarked within 15 days after such date (40 CFR 60.7(a)(3); NAC 445B.250.3).
- d. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice (40 CFR 60.7(a)(4)).

**3. Operating Requirements (NAC 445B.3365.3)**

a. Emission Limits (NAC 445B.305)(40 CFR 60.4200 et. seq.)

On and after the date of startup, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of S2.166 the following pollutants in excess of the following specified limits:

- (1) The discharge of PM to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- (2) The discharge of PM<sub>10</sub> to the atmosphere will not exceed 0.07 pound per hour, nor more than 0.04 ton per year.
- (3) The discharge of SO<sub>2</sub> to the atmosphere will not exceed 0.52 pound per hour, nor more than 0.33 ton per year.
- (4) The discharge of NO<sub>x</sub> to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- (5) The discharge of CO to the atmosphere will not exceed 1.16 pound per hour, nor more than 0.72 ton per year.
- (6) The discharge of VOC to the atmosphere will not exceed 1.32 pound per hour, nor more than 0.83 ton per year.
- (7) New Source Performance Standards (NSPS) – Standards of Performance for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE) (40 CFR Part 60, Subpart IIII, 40 CFR 60.4200 et. seq.).
  - (i) The discharge of PM to the atmosphere will not exceed 0.2 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - (ii) The discharge of NO<sub>x</sub> + NMHC to the atmosphere will not exceed 4 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
  - (iii) The discharge of CO to the atmosphere will not exceed 3.5 g/kW-hr (40 CFR 60.4204(b), 60.4201(a) – Tier 3 standards for engines 130 – 225 kW, 40 CFR 89.112, Table 1).
- (8) National Emission Standards for Hazardous Air Pollutants (NESHAP) – NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 et. seq.) – New or Reconstructed stationary RICE located at an Area Source (40 CFR 6590(c)(1)). No further requirements under 40 CFR Part 63, Subpart ZZZZ apply to stationary RICE meeting the requirements of 40 CFR Part 60, Subpart IIII (40 CFR 63.6590(c)).
- (9) The opacity from S2.166 will not equal or exceed 20 percent in accordance with NAC 445B.22017.



## BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0394

Permit No. AP1041-2806

### CLASS I OPERATING PERMIT TO CONSTRUCT

Issued to: Round Mountain Gold (SVCO) as Permittee

#### Section V. Specific Operating Conditions (continued)

EE. Emission Unit S2.166 (continued)

3. Operating Requirements (NAC 445B.3365.3)(continued)

b. Operating Parameters (NAC 445B.305; 40 CFR 60.4200 et. seq.)

- (1) The maximum allowable diesel fuel combustion rate for S2.166 will not exceed 12.9 gallons per hour.
- (2) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR Part 60, Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel (40 CFR 60.4207(b)). The diesel fuel sulfur limit for S2.166 will not exceed 15 ppm by weight.
- (3) Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204, as set forth in 3.a.(7) above, according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine (40 CFR 60.4206).
- (4) If you (Permittee) are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, as set forth in 3.a.(7) above, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached (40 CFR 60.4209(b)).
- (5) Hours  
S2.166 may operate up to 24 hours per day, but not more than 1,250 hours per 12-month rolling period.

c. Monitoring and Recordkeeping NAC 445B.3365

On and after the date of startup of S2.166, Permittee will maintain in a contemporaneous log, the following monitoring and recordkeeping:

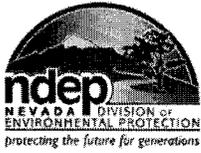
- (1) The calendar date of any required monitoring and recordkeeping.
- (2) Monitor and record the amount of diesel fuel combusted (in gallons) for S2.166 on a daily basis.
- (3) Monitor and record the number of 1-hour periods S2.166 operates during each day of operation.
- (4) Maintain a certification on file from the fuel supplier that certifies the fuel delivered complies with the sulfur limit specified in EE.3.b.(2) of this section.
- (5) The daily average hourly fuel combustion rate determined using the monitoring required in 3.c.(2) and 3.c.(3) above.
- (6) Record the monthly and 12-month rolling hours of operation. The monthly hours of operation will be determined at the end of each calendar month as the sum of the daily hours of operation recorded in 3.c.(3) above. The 12-month rolling hours of operation will be determined at the end of each calendar month as the sum of the monthly hours of operation for the 12 preceding calendar months.

d. Test Methods and Procedures (NAC 445B.3365.3)

- (1) Within 60 days after achieving the maximum production rate at which S2.166 will be operated, but no later than 180 days after initial startup of the facility, the Permittee shall determine compliance with the opacity standard established in EE.3.a. of this section by conducting a visible emissions test on S2.166 while operating. The initial opacity test shall be performed using EPA Method 9 as specified in 40 CFR Part 60, Appendix A. The time of observations shall be 6 minutes (24 consecutive readings at 15-second intervals). The Method 9 performance test shall be conducted by a certified visible emissions reader in accordance with procedures specified in 40 CFR Part 60, Appendix A, Method 9.
- (2) The Permittee shall provide notification of the anticipated date for conducting the initial opacity observations. The notification shall be postmarked not less than 30 days prior to such date (NAC 445B.252).

e. 40 CFR Part 60, Subpart IIII Compliance Requirements for Owners and Operators (40 CFR 60.4211)

- (1) If you (Permittee) are an owner or operator and must comply with the emission standards specified in 40 CFR Part 60, Subpart IIII, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer (40 CFR 60.4211(a)).
- (2) If you (Permittee) are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4202(b), as set forth in EE.3.a.(7) of this section, you must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications (40 CFR 60.4211(c)).



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**Section V. Specific Operating Conditions (continued)**

EE. Emission Unit S2.166 (continued)

**3. Operating Requirements (NAC 445B.3365.3)(continued)**

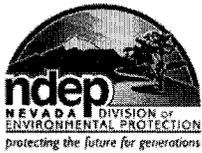
- f. **40 CFR Part 60, Subpart IIII Testing Requirements for Owners and Operators (40 CFR 60.4212)**  
Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112, must not exceed the not-to-exceed (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation: NTE Requirement for Each Pollutant = 1.25 x the standard specified for that pollutant in 40 CFR 89.112.
- g. **40 CFR Part 60, Subpart IIII Notification, Reporting, and Recordkeeping Requirements for Owners and Operators (40 CFR 60.4214)**  
If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached (40 CFR 60.4214(c)).

**4. Reporting NAC 445B.3365**

Within 60 days after completing the initial opacity test required in EE.3.d.(1) of this section, the Permittee shall furnish the Director a written report of the results of the opacity observations. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).

**5. Class I Operating Permit Application**

An operating permit to construct expires if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the date of initial start-up (NAC 445B.3366.4).



**BUREAU OF AIR POLLUTION CONTROL**

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**CLASS I OPERATING PERMIT TO CONSTRUCT**

**Issued to:** Round Mountain Gold (SVCO) as Permittee

**Section IX. Amendments**

May XX, 2012

1. Revise emission permit limits for Systems GH13 – GH16, so as to incorporate Tier 3 emission standards for the diesel engines.
2. Add Insignificant Activity IA1.009 for a 20,000-gallone diesel fuel storage tank.
3. Add Insignificant Activity IA1.010 for a 1,000-gallon lube oil tank.

**This Permit to construct:**

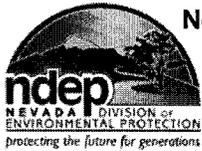
1. Is non-transferable. (NAC 445B.287)
2. Will be posted conspicuously at or near the stationary source. (NAC 445B.318)
3. Will expire if construction is not commenced within 18 months after the date of issuance or if construction of the facility is delayed for 18 months after initiated. (NAC 445B.3366)
4. Will expire if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the initial start-up. (NAC 445B.3366)
5. Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)
6. *The Permittee* shall submit a complete Class I application within 12 months after the notification date of commencement of operation as required in this permit to construct. (NAC 445B.3361)

**Signature** \_\_\_\_\_

**Issued by:** Jonathan McRae, P.E.  
Supervisor, Bureau of Air Pollution Control

**Phone:** (775) 687-9337

**Date:** DRAFT



## BUREAU OF AIR POLLUTION CONTROL

### CLASS I NON-PERMIT EQUIPMENT LIST

Appended to Round Mountain Gold *Facility* #A0394 *Permit* #AP1041-2806

Emission Unit #	Emission Unit Description
IA1.001	GH Diesel Storage Tank 1 – 20,000 gallon capacity
IA1.002	GH Diesel Storage Tank 2 – 20,000 gallon capacity
IA1.003	GH Lubricant Oil Tank 3 – 1,000 gallon capacity
IA1.004	GH Lubricant Oil Tank 4 – 1,000 gallon capacity
IA1.005	GH Lubricant Oil Tank 5 – 2,000 gallon capacity
IA1.006	GH Antifreeze Tank 6 – 1,000 gallon capacity
IA1.007	GH Process Building Heater #1 (< 4 MMBtu)
IA1.008	GH Process Building Heater #2 (<4 MMBtu)
IA1.009	GH Diesel Storage Tank 7 – 20,000 gallon capacity
IA1.010	GH Lubricant Oil Tank 8 – 1,000 gallon capacity

**Note:** *The equipments listed on this attachment are subject to all applicable requirements of the NAC and ASIP.*