~~**SUPERSTITION MOUNTAINS COMMUNITY FACILITIES DISTRICT NO. 1 APACHE JUNCTION**~~
APACHE JUNCTION SEWER DISTRICT

1. Introduction

This permit pertains to a wastewater treatment facility operated by the Apache Junction Sewer District. ~~Superstition Mountains Community Facilities District No. 1.~~ The SIC Code is 4952 and the NAICS code is 221320. The facility, also known as the Wastewater Treatment Plant ~~No. 1~~, is located on 5661 South Ironwood Drive, Apache Junction, Arizona, upon a parcel identified by Pinal County's Assessor parcel #104-07-005A. ~~#104-07-005-0~~. The source is situated in an area classified as non-attainment for ozone and PM_{10}.

Renewal, S16129.000, adds the requirements for the Standards of Performance for New Stationary Sources (NSPS), or 40 CFR Part 60, Subpart IIII, applicable to Stationary Compression Ignition (CI) Internal Combustion Engines (ICE). The NSPS standards apply to the 500 kW (670 HP) diesel-fueled emergency-use generator, and supersedes the NESHAP subpart ZZZZ requirements.

Renewal (S16069.000) added the provisions of the Stationary Reciprocating Internal Combustion Engines (RICE) NESHAP, 40 CFR 63 Subpart ZZZZ.

A complete list of equipment from which emissions are allowed by this permit is given in Section 8 of this permit. Emissions listed in the last section of this permit constitute the maximum emissions from this facility taking into consideration the limitations of the permit.

The wastewater processing operations emit hydrogen sulfide (H_2S). Pinal County has an ambient standard for H_2S. The facility's only method for controlling odors is aeration, but no after-controls are utilized. There is a 1,000 feet odor easement surrounding the facility, granted by the State Land Department. The permit required an initial estimation or modeling of the H_2S emissions from the facility. Testing was completed in March 2010 and demonstrated compliance with the 0.03 ppmv standard. The permit requires additional testing at least once every five years from the most recent test demonstrating compliance. The permit also includes a requirement for the applicant to come up with alternative ways to come into compliance with the ambient standard if the testing/modeling shows non-compliance.

Based on standard emission factors and continuous operation, a 500 KW diesel engine has a potential to emit approximately 70 tons per year ("tpy") of NO_x. However, this permit limits the non-emergency generator operation to 100 hours per year. There is no limit for the annual use of the generator in emergency situations.

The source falls subject to requirements under CAA§112, however the applicable NESHAP exempts the source in its current configuration from the obligation to obtain a permit under 40 CFR Part 70 or 71. Therefore, this source does not require an operating permit under Title V of the CAA.

2. Authority to Construct

A. Generally ***[Federally enforceable pursuant to PCAQCD Code §§3-1-010, 3-1-040 (10/12/95) approved as a SIP element at 65 FR 79742 (12/20/00)]***

As an exercise of authority under PCAQCD's SIP-approved minor new source review program, this permit revision additionally authorizes the construction of the equipment enumerated in the Subsection B of this section. That authorization rests on ~~a~~ findings regarding the limited emission potential of the affected equipment, coupled with the enforceable control requirements under this permit. Therefore, based on the regulations in effect upon the date of issuance of this permit and a finding that allowable emissions from the equipment described in Subsection B will neither cause nor contribute to a violation of any ambient air quality standard even without additional limitations, and a further finding that in view of this permit this does not constitute a "major

emitting source" within the meaning of Code §3-3-203, this permit constitutes authority to construct such equipment.

B. Minor New Source Review Requirements - Equipment Authorized ***[Federally enforceable pursuant to PCAQCD Code §§3-1-010, 3-1-040 (10/12/95) approved as a SIP element at 65 FR 79742 (12/20/00)]***

All the equipment listed under section §8.A of this permit.

C. Minor New Source Review Requirements - Control Requirements ***[Code §§3-1-010, 3-1-040 (as amended 10/12/95) approved as a SIP element at 61 FR 15717 (4/9/96)]***; Material Permit Condition (Code §3-1-109)

The generator identified in §8.A.1 of this permit shall:

1. Be equipped with an hour meter, configured to record hours of operation.

2. The 500 kW generator shall not operate more than 100 hours per calendar year as listed in Section §4.C.2 ~~.1.c~~ of this permit.

3. Emission Limitations and Controls

A. Applicable Limitations ***[Federally enforceable pursuant to PCAQCD Code § 3-1-082 (11/3/93) approved as SIP Elements at 65 FR 79742 (12/20/00)]***

Where different standards or limitations apply under this permit, the most stringent combination shall prevail and be enforceable.

B. Allowable Emissions ***[Federally enforceable pursuant to PCAQCD Code § 3-1-040 (10/12/95) approved as SIP Elements at 65 FR 79742 (12/20/00)]***

The owner/operator ("Permittee") is authorized to discharge or cause to discharge into the atmosphere those emissions of air contaminants as set forth in this permit. Unless exempted under Code §3-2-180, Permittee shall not use any material, process, or equipment not identified in this permit which will cause emissions of any regulated air pollutant in excess of the 5.5 pound-per-day de minimis amount, unless authorized by a permit revision ~~under~~ as allowed under this permit, or by a separate permit issued by the District or other competent authority.

C. Hydrogen Sulfide Applicable Standards of Performance (Code §§5-24-1030.D, 5-24-1030.H)

1. No person shall emit gaseous or odorous materials from equipment, operations or premises under his control in such quantities of concentrations as to cause air pollution.

2. No person shall allow hydrogen sulfide (H_2S) to be emitted from any location in such manner and amount that the concentration of such emissions into the ambient air at any occupied place beyond the premises which the source is located exceeds 0.03 parts per million by volume for any averaging period of 30 minutes or more.

D. Standards of Performance for Stationary Rotating Machinery (Code §5-23-1010.A.B.C.D)

1. For equipment having a heat input rate of 4200 million Btu/hr or less, the maximum allowable emissions shall be determined by the following equation:

$$E = 1.02*Q^{0.769}$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

Q = the total heat input of all operating fuel burning units on a plant premises in million btu/hr

2. For equipment having a heat input rate greater than 4200 million Btu/hr ~~or less~~, the maximum allowable emissions shall be determined by the following equation:

$$E = 17.0*Q^{0.432}$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

Q = the total heat input of all operating fuel burning units on a plant premises in million btu/hr

3. For references purposes only, the actual values shall be calculated from the applicable equations and rounded off to two decimal places.

4. No person shall cause, allow or permit to be emitted into the atmosphere from any stationary rotating machinery, smoke for any period greater than 10 consecutive seconds which exceeds 40% opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes.

5. When low sulfur oil is fired, stationary rotating machinery installations shall burn fuel which limits the emission of sulfur dioxide to 1.0 pound per million Btu heat input.

E. NSPS Subpart IIII Standards - Compression Ignition (CI) Internal Combustion Engines (ICE) ***[Federally enforceable 60.4205(b, 60.4202.(a).(2))]***

1. Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the following emission standards as well as the opacity standards:

Unit	Mfg. Date	Displacement per Cylinder (l)	NMHC g/kw-hr	NO_x g/kw-hr	PM g/kw-hr	CO g/kw-hr
Caterpillar C15 (500 kW/670 HP)	2020	2.53	0.19	0.67	0.04	3.5

2. Permittee shall measure smoke opacity emitting from each generator. The measured opacity shall not exceed the following standards:

a. 20 percent during the acceleration mode.

b. 15 percent during the lugging mode.

c. 50 percent during the peaks in either the acceleration or lugging modes.

~~E. Stationary Reciprocating Internal Combustion Engines (RICE) NESHAP ***[Currently federally enforceable; 40 CFR 63 Subpart ZZZZ]***~~

~~1. Emergency Generator Emission Limitations ***[Currently federally enforceable; 40 CFR 63.6603, 40 CFR 63.6625(i), Table 2d to 40 CFR 63 Subpart ZZZZ)]***~~

~~a. Change oil and filter every 500 hours of operation or annually, whichever comes first or;~~

~~b. Conduct an oil analysis every 500 hours of operation or annually, whichever comes first. If the analysis demonstrates that any of the following parameters have been exceeded the oil must be changed within 2 business days of receiving the results or 2 business days before commencing operation of the engine, whichever is later. The oil must be changed if:~~

~~i. The Total Base Number is less than 30% of the Total Base Number of oil when new or;~~

~~ii. The viscosity of the oil has changed by more than 20% from the viscosity of the oil when new or;~~

~~iii. The percent water content (by volume) is greater than 0.5%~~

~~c. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary; and~~

~~d. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.~~

~~2. Emergency Generator Maintenance Requirements ***[Currently federally enforceable; 40 CFR 63.6625(e),(f),(h),(i)]***~~

~~a. Operate and maintain engine according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions.~~

~~b. Install a non-resettable hour meter if one is not already installed.~~

~~c. Minimize the engine's start-up time not to exceed 30 minutes.~~

F. Particulate Emissions - Opacity Limits

1. SIP Limitation ***[Currently federally enforceable pursuant to PGAQCD Reg. 7-3-1.1 (6/16/80) approved as a SIP element at 47 FR 15579 (4/12/82)]***

The opacity of any plume or effluent shall not be greater than 40 percent as determined by Reference Method 9 in the Arizona Testing Manual (ADEQ, 1992). Nothing in this limitation shall be interpreted to prevent the discharge or emission of uncontaminated aqueous steam, or uncombined water vapor, to the open air.

2. Visibility Limiting Standard ***[Federally enforceable pursuant to Code §2-8-300 (5/18/05) approved as a SIP element at 71 FR 15043 (3/27/06)]***

The opacity of any plume or effluent from any point source not subject to a New Source Performance Standard adopted under Chapter 6 of the Code, and not subject to an opacity standard in Chapter 5 of the Code, shall not be greater than 20% as determined in Method 9 in 40 CFR Part 60, Appendix A.

G. Particulate Matter Reasonable Precautions ***[Currently federally enforceable pursuant to Code §4-2-040 (6/29/93) approved as a SIP element at 72 FR 41896 (8/1/07) and PGAQD Reg. 7-3-1.2 (7/1/75) approved as a SIP element at 43 FR 53034 (11/15/78)]***

1. Permittee shall not cause, suffer, allow, or permit a building or its appurtenances, subdivision site, driveway, parking area, vacant lot or sales lot, or an urban or suburban open area to be constructed, used, altered, repaired, demolished, cleared, or leveled, or the earth to be moved or excavated, or fill dirt to be deposited, without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

2. Permittee shall not cause, suffer, allow, or permit a vacant lot, or an urban or suburban open area, to be driven over or used by motor vehicles, such as but not limited to all-terrain vehicles, trucks, cars, cycles, bikes, or buggies, without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

3. Permittee shall not disturb or remove soil or natural cover from any area without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

4. Permittee shall not crush, screen, handle or convey materials or cause, suffer, allow or permit material to be stacked, piled or otherwise stored without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

5. Stacking and reclaiming machinery utilized at storage piles shall be operated at all times with a minimum fall of material and in such a manner, or with the use of spray bars and wetting agents, as to prevent excessive amounts of particulate matter from becoming airborne. Other reasonable precautions shall be taken, as necessary, to effectively prevent fugitive dust from becoming airborne.

6. Permittee shall not cause, suffer, allow or permit transportation of materials likely to give rise to fugitive dust without taking reasonable precautions to prevent fugitive dust from becoming airborne. Earth and other material that is tracked out or transported by trucking and earth moving equipment on paved streets shall be removed by the party or person responsible for such deposits.

H. Surface Stabilization ***~~[Currently federally enforceable pursuant to Code §4-4-120 thru §4-4-130 (6/3/09) approved as a SIP element at 75 FR 17307 (4/6/10)]~~ [Federally enforceable pursuant to Code §4-1-010 (10/28/15) approved as a SIP element at 82 FR 20267 (5/1/17), Amended 1/25/23]***

1. Phoenix Nonattainment Area Standards (Code §4-4-120)

a. Permittee shall restrict access to only those areas that have been dustproofed by paving, graveling, or dust suppressants/track-out control.

b. Permittee shall maintain all unpaved commercial lots so that the silt loading shall not exceed 0.33 oz/ft^2 or the silt content shall not exceed 8%.

c. Permittee shall maintain all unpaved commercial lots so that the internal opacity of a plume caused by vehicular movement does not exceed 20% based on the intermittent opacity method listed in PCAQCD Code §4-9-340.

d. Permittee shall maintain all unpaved commercial lots so that the net opacity contribution shall not exceed 30 seconds of visible emission in any continuous six minute period based on the time aggregation method.

e. Permittee shall clean up all trackout onto a publically accessible paved area that exceeds 25 linear feet immediately and all trackout by the end of the day.

f. Permittee shall make a record of dustproofing and clean up actions taken.

1. Vehicle Use in Open Areas and Vacant Lots (Code §4-1-030.2)

a. Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust generated from the vehicle use in open areas and vacant lots beyond the property line within which the emissions are generated.

b. Permittee shall stabilize the open areas and vacant lots on which vehicles are used to by complying with any one of the stabilization requirements listed in PCAQCD Code §4-1-030.2.A.

c. Permittee shall apply appropriate control measures to the open areas and vacant lots on which vehicles are used as listed in PCAQCD Code §4-1-030.2.B.

d. Permittee shall implement one or more of the control measures described in PCAQCD Code §4-1-030.2.B within 60 calendar days following the initial discovery by the Control Officer of any open areas and vacant lots that are 0.10 acre (4,356 square feet) or larger and having a cumulative of 500 square feet or more that are disturbed by being driven over and/or used by motor vehicles, by off road vehicles, or for material dumping.

e. Permittee shall, within 30 calendar days following the initial discovery by the Control Officer of the disturbance or vehicle use on open areas and vacant lots, provide in writing to the Control Officer a description and date of the control measure(s) to be implemented to prevent such disturbance.

f. Permittee shall implement all control measures necessary to limit the disturbance or vehicle sues on open areas and vacant lots in accordance with the requirements of PCAQCD Code §4-1-030.2.B. Control measure(s) shall be considered effectively implemented when the open areas and vacant lots meets the requirements described in PCAQCD Code §4-1-030.2.A.

g. Use of or parking on open areas and vacant lots by the Permittee shall not be considered vehicles use in open areas and vacant lots.

h. Establishing initial landscapes without the use of mechanized equipment or conducting landscape maintenance without the use of mechanized equipment shall not be considered vehicle use in open areas and vacant lots.

2. Open Areas and Vacant Lots (Code §4-1-030.3)

a. Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust generated from the open areas and vacant lots beyond the property line within which the emissions are generated.

b. Permittee shall stabilize the open areas and vacant lots by complying with any one of the stabilization requirements listed in PCAQCD Code §4-1-030.3.A.ii.

c. Permittee shall apply appropriate control measures to the disturbed open areas and vacant lots as listed in PCAQCD Code §4-1-030.3.B.

d. Permittee shall implement one or more of the control measures described in PCAQCD Code §4-1-030.3.B within 60 calendar days following the initial discovery by the Control Officer of any open areas and vacant lots that are 0.10 acre (4,356 square feet) or larger and having a cumulative of 500 square feet or more that are disturbed, and if such disturbed area remains unoccupied, unused, vacant, or undeveloped for more than 15 days.

e. Permittee shall, within 30 calendar days following the initial discovery by the Control Officer of the disturbance on the open areas and vacant lots, provide in writing to the Control Officer a description and date of the control measure(s) to be implemented to prevent such disturbance.

f. Permittee shall apply the control measures listed in PCAQCD Code §4-1-030.5.A if machinery is used to clear weeds and/or trash from open areas and vacant lots of 5,000 square feet or larger.

3. Unpaved Parking Lots (Code §4-1-030.4)

a. Permittee shall not cause or allow visible emissions of particulate matter, including fugitive dust generated from the unpaved parking lots beyond the property line within which the emissions are generated.

b. Permittee shall apply appropriate control measures to the disturbed unpaved parking lots as listed in PCAQCD Code §4-1-030.4.B.

c. Permittee shall repair and/or replace the control measures listed in PCAQCD Code §4-1-030.4.B, and shall clean-up immediately any trackout from areas accessible to the public including curbs, gutters and sidewalks when trackout extends a cumulative distance of 25 linear feet or more and at the end of the day for all other trackout.

4. Paved Public Roadway (Code §4-1-030.7)

a. Permittee upon discovery of the mud/dirt on its property due to the trackout or erosion-caused deposition that extends 25 feet or more from the nearest unpaved surface exit onto the paved public roadway shall apply any one of the control measures listed in PCAQCD §4-1-030.7.A.i.

b. Permittee shall remove the mud/dirt in a manner that does not cause another source of fugitive dust.

c. In the event unsafe travel conditions would result from restricting traffic and removal of such material is not possible within 72 hours due to a weekend or holiday condition, the provisions of PCAQCD Code §4-1-030.7.A.i can be extended upon notification to and approval by the Control Officer.

d. Permittee who is the owner and/or operator of any existing paved public roadways shall apply in sufficient quantity a dust suppressants to the total surface area subject to the disturbance and prevent track by applying any one of the control measures listed in PCAQCD §4-1-030.7.A.i, prior to, during and after work on unpaved road shoulders.

e. Permittee who is the owner and/or operator having jurisdiction over, or ownership of, public or private paved roads shall construct, or require to be constructed, all new or modified paved roads in conformance with the road shoulder width and drivable median stabilization as required in PCAQCD Code §4-1-030.7.D.

f. Unpaved shoulders and medians of paved roads shall be considered to have control measures effectively implemented when fugitive dust emissions do not exceed 20% opacity and silt loading does not equal or exceed 0.33 oz/ft^2 as determined in PCAQCD Code §4-9-310 except for unpaved shoulders on which gravel has been applied. Where gravel is utilized to prevent trackout from unpaved shoulders and medians of paved roads, surface gravel shall be uniformly applied and maintained to a depth of two (2) inches to comply with the 20% opacity standards, the gravel depth and silt content test methods in PCAQCD Code §4-9-310.

g. Permittee who is the owner and/or operator having jurisdiction over, or ownership of, existing public or private paved roads which do not conform with the requirements of PCAQCD Code §4-1-030.7.D shall reconstruct, or require to be reconstructed, the existing nonconforming paved road within 365 calendar days following the initial discovery that the road fails to meet the requirements. The control officer may require short-term stabilization of any paved road subject to the requirements set forth in PCAQCD Codes §§4-1-030.7.D and 4-1-030.7.E

5. Recordkeeping (Codes §§4-1-040 and 4-1-050)

Permittee, if subject to the above requirements, shall compile and retain records that provide evidence of control measure application including records of receipts/purchase, street sweeping, water applications, maintenance of trackout control devices, gravel pads, fences, wind barriers, tarps, type of treatment/control measure application, extent of coverage, and date applied. The supporting documentation shall be provided as soon as possible but no later than 48 hours upon a verbal or written request by the Control Officer, excluding weekends. If the Control Officer is at the site where requested records are kept, the records shall be provided without delay. Copies of such records shall be retained for at least two years.

I. Fuel Use Limitations (Code §§3-1-081.)

1. Primary Fuel – NSPS Subpart IIII ***[40 CFR §60.4207.(b)]*** ~~RICE NESHAP ZZZZ ***[40 CFR §§63.6604.(b)]***~~

a. Owners and operators of CI and ICI with a displacement of less than 30 liters per cylinder that use diesel fuel must only use diesel fuel meeting the requirements of 40 CFR 1090.305 ~~80.510(b)~~ which requires that diesel fuel shall:

i. Have a maximum sulfur content of 15 parts per million (ppm) and;

ii. Either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

2. Primary Fuel (Code §5-23-1010)

The Permittee is allowed to burn gasoline, natural gas, propane, or diesel fuel which contains less than 0.9 percent sulfur by weight as fuel for the emergency generator.

3. Other Fuels (§§3-1-081.G, 5-23-1010.F)

The Permittee shall not use used oil, used oil fuel, hazardous waste, and hazardous waste fuel as defined in Codes §§3-1-081.G, 5-23-1010.F without first obtaining a separate permit or an appropriate permit revision.

J. General Maintenance Obligation ***[Currently federally enforceable provision pursuant to code §3-1-081.E (9/5/01) approved as a SIP element at 66 FR 63166 (12/5/01)]*** ~~**; 40 CFR 63.6605]** (Code §§3-1-081.E., 8-1-030.A.3)~~

At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate the permitted facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

4. Compliance Demonstration

A. Hydrogen Sulfide Compliance Testing

1. ~~Testing Timeline~~ Performance Testing

~~No later than 5 years from the most recent test that demonstrated compliance, permittee shall analyze the H_2S levels by one of the following methods.~~ The following analysis shall be performed at a location representing the nearest possible occupied places beyond the premises on which the source of H_2S is located, even if the occupied spaces have has not been built yet.

a. Conduct a test to monitor the H_2S levels, or

b. Conduct an air dispersion modeling analysis to determine H_2S concentration levels.

2. Test Protocol

A test protocol for testing H_2S emissions shall be submitted to the district for approval at least thirty (30) days before the actual testing.

3. Modeling Protocol

A modeling protocol shall be submitted to the district for approval at least thirty (30) days before the actual modeling.

4. Test Notice

Permittee shall provide notice of the intended test date to the control officer at least thirty (30) days prior to the planned test date.

4. Test Reports

Permittee shall submit the testing or modeling report to the district detailing the results of the analysis within ~~30~~ forty-five (45) days of the completion of the demonstration.

5. Recurring Testing

If the average H_2S concentration from the initial testing or modeling is less than 0.03 ppmv, then the testing or modeling shall be performed once every five years. If results indicate that the H_2S concentration is greater than 0.03 ppmv, then permittee shall perform a semi-annual testing or modeling until compliance is achieved.

B. Hydrogen Sulfide Exceedance Compliance Plan

1. Additional Monitoring

Within ~~120~~ sixty (60) days of the exceedance of the hydrogen sulfide standard of 0.03 ppmv, permittee shall submit a compliance plan with proposed corrective measures including alternative odor control and additional monitoring/modeling based on the implementation of alternative odor controls. The compliance plan shall include a schedule for design and construction of the proposed alternatives.

C. Operational Compliance Demonstration for CI ICE Engines – NSPS Subpart IIII ***[40 CFR §60.4211(a), (b), (c) & (f))]***

1. All engines and control devices must be installed, configured, operated and maintained according to the specifications and instructions provided by the engine manufacturer.

2. All the emergency stationary engines are subject to the following standards:

1. Install a non-resettable hour meter.

2. There is no time limit on the use of emergency stationary engines in emergency situations.

3. Emergency stationary engines may be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing

authority and transmission operator, or the insurance company associated with the engine. Copies of such records shall be provided to the District upon request.

4. Emergency stationary engines may be operated for a maximum of 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response program.

5. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

3. Owners and operators for 2007 or later model year engines can demonstrate compliance by:

a. Purchasing an engine that is certified to meet non-road emission standards for the model year and maximum engine power.

~~C. Operational Compliance Demonstration for RICE NESHAP ZZZZ Engines ***[40 CFR §§63.6640.(f)]***~~

~~All the emergency stationary engines are subject to the following standards:~~

~~6. Install a non-resettable hour meter.~~

~~7. There is no time limit on the use of emergency stationary engines in emergency situations.~~

~~8. Emergency stationary engines may be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Copies of such records shall be provided to the District upon request.~~

~~9. Emergency stationary engines located at area sources of HAP may be operated for a maximum of 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response program.~~

~~10. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.~~

D. Regular Emissions Monitoring ***[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)]***

1. Non-instrumental Emissions Monitoring - Oxides of Nitrogen

As a surrogate measurement for monitoring emissions of oxides of nitrogen, Permittee shall make a monthly record of the number of hours the emergency generator is operated.

2. Non-instrumental Emissions Monitoring - Sulfur Dioxide

As an alternative to monitoring fuel sulfur, Permittee shall maintain a verification from the fuel supplier that diesel fuel for the generator does not contain more than 0.9% by weight.

E. Recordkeeping ***[Federally Enforceable Provision pursuant to code §3-1-084 (8/15/94) approved as a SIP element at 61 FR 15717 (4/9/96)]***

~~1. General Recordkeeping (Code §3-1-083)~~

Permittee shall maintain records of:

a. All information required pursuant to any provision of this permit, recorded in a permanent form suitable for inspection.

b. The occurrence and duration of any start-up, shutdown or malfunction in the operation of the permitted facility or any air pollution control equipment.

~~2. RICE NESHAP Recordkeeping ***[Currently federally enforceable; 40 CFR63.6655]***~~

~~a. Record when the required maintenance was performed on the emergency generator and how the maintenance plan was followed;~~

~~b. Record the total hours of operation for the emergency generator;~~

~~c. Record the number of hours spent for emergency operation including what classified the operation as emergency;~~

~~d. Record the number of hours spent for non-emergency operation.~~

F. Compliance Reporting (Code §3-1-083.A)

In order to demonstrate compliance with the provisions of this permit, the Permittee shall submit an annual report containing a summary of the information required to be recorded pursuant to this permit, which summary shall clearly show that Permittee has complied with the operational and emissions limitations under this permit. The report shall be submitted to the District within 30 days after the start of each calendar year. Appendix A is the form that can be used for this report.

G. Annual Regular Compliance/Compliance Progress Certification (Code §3-1-175)

Permittee shall annually submit a certification of compliance with the provisions of this permit. The certification shall:

1. Be signed by a responsible official, namely the proprietor, a general partner, the president, secretary, treasurer or vice-president of the corporation, or such other person as may be approved by the Control Officer as an administrative amendment to this permit;

2. Identify each term or condition of the permit that is the basis of the certification;

3. Verify the compliance status with respect to each such term or condition;

4. Verify whether compliance with respect to each such term or condition has been continuous or intermittent;

5. Identify the permit provision, or other, compliance mechanism upon which the certification is based; and

6. Be postmarked within thirty (30) days of the start of each calendar year.

5. Other Reporting Obligations

A. Deviations from Permit Requirements ***[Federally Enforceable Provision pursuant to code §3-1-081.A.5.b (9/5/01) approved as a SIP element at 66 FR 63166 (12/5/01)]*** ~~(Code §3-1-081.A.5.b.)~~

Permittee shall report any deviation from the requirements of this permit along with the probable cause for such deviation, and any corrective actions or preventative measures taken to the District within ten days of the earlier of date the Permittee learned, or should have learned, of the deviation unless earlier notification is required by the provisions of this permit.

6. Fee Payment (Code §3-7-600.)

As an essential obligation under this permit, permit fee shall be assessed by the District and paid by Permittee in accord with the provisions of Code Chapter 3, Article 7, as they may exist at the time the fee is due. The permit fee shall be due annually on or before the anniversary date of the issuance of an individual permit, or formal grant of approval to operate under a general permit, or at such other time as may be designated now or hereafter by rule. The District will notify the Permittee of the amount to be due, as well as the specific date on which the fee is due.

7. General Conditions

A. Term (Code §3-1-089)

This permit shall have a term of five (5) years, measured from the date of issuance.

B. Basic Obligation (Code §3-1-081.)

Permittee shall operate in compliance with all conditions of this permit, the Pinal County Air Quality Control District ("the District") Code of Regulations ("Code"), and all State and Federal laws, statutes, and codes relating to air quality that apply to these facilities. Any permit noncompliance is grounds for enforcement action; for a permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application and may additionally constitute a violation of the CAA.

C. Duty to Supplement Application (Code §§3-1-050.H, 3-1-081.A.8.e, 3-1-110)

Even after the issuance of this permit, a Permittee, who as an applicant who failed to include all relevant facts, or who submitted incorrect information in an application, shall, upon becoming aware of such failure or incorrect submittal, promptly submit a supplement to the application, correcting such failure or incorrect submittal. In addition, Permittee shall furnish to the District within thirty days any information that the Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit and/or the Code.

D. Right to Enter (Code §§ 3-1-132, 8-1-050)

Authorized representatives of the District shall, upon presentation of proper credentials, be allowed:

1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit;

2. To inspect any equipment, operation, or method required in this permit; and

3. To sample emissions from the source.

E. Transfer of Ownership (Code §3-1-090)

This permit may be transferred from one person to another by notifying the District at least 30 days in advance of the transfer. The notice shall contain all the information and items required by Code § 3-1-090. The transfer may take place if not denied by the District within 10 days of the receipt of the transfer notification.

F. Posting of Permit (Code §3-1-100)

Permittee shall firmly affix the permit, an approved facsimile of the permit, or other approved identification bearing the permit number, upon such building, structure, facility or installation for which the permit was issued. In the event that such building, structure, facility or installation is so constructed or operated that the permit cannot be so placed, the permit shall be mounted so as to be clearly visible in an accessible place within a reasonable distance of the equipment or maintained readily available at all times on the operating premises.

G. Permit Revocation for Cause (Code §3-1-140)

The Director of the District ("Director") may revoke this permit for cause, which cause shall include occurrence of any of the following:

1. The Director has reasonable cause to believe that the permit was obtained by fraud or material misrepresentation;

2. Permittee failed to disclose a material fact required by the permit application form or a regulation applicable to the permit;

3. The terms and conditions of the permit have been or are being violated.

H. Certification of Truth, Accuracy, and Completeness (Code § 3-1-175.)

Any application form, report, or compliance certification submitted pursuant to the Code shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under Chapter 3 of the Code shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

I. Permit Expiration and Renewal (Code §3-1-089)

Expiration of this permit will terminate the facility’s right to operate unless either a timely application for renewal has been submitted in accordance with §§3-1-050, 3-1-055 and 3-1-060, or a substitute application for a general permit under §3-5-490. For Class I permit renewals, a timely

application is one that is submitted at least 6 months, but not greater than 18 months prior to the date of the permit expiration. For Class II or Class III permit renewals, a timely application is one that is submitted at least 3 months, but not greater than 12 months prior to the date of permit expiration.

J. Severability (Code §3-1-081.A.7)

The provisions of this permit are severable, and if any provision of this permit is held invalid the remainder of this permit shall not be affected thereby.

K. Permit Shield (Code § 3-1-102.)

1. Compliance with the terms of this permit shall be deemed compliance with any applicable requirement identified in this permit.

2. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

L. Permit Revisions (Code Chapter 3, Article 2)

1. This permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

2. The permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit.

3. Permit amendments, permit revisions, and changes made without a permit revision shall conform to the requirements in Article 2, Chapter 3, of the Code.

4. Should this source become subject to a standard promulgated by the Administrator pursuant to CAA §112(d), then Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard. (Code §3-1-050.C.5)

M. Permit Re-opening (Code §3-1-087.)

1. This permit shall be reopened if either:

a. The Control Officer determines that it contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of it; or

b. The Control Officer determines that it needs to be revised or revoked to assure compliance with the applicable requirements.

2. If this permit must be reopened or revised, the District will notify the permittee in accord with Code §3-1-087.A.3.

N. Record Retention (Code §3-1-083.A.2.b)

Permittee shall retain for a period of five (5) years all documents required under this permit, including reports, monitoring data, support information, calibration and maintenance records, and all original recordings or physical records of required continuous monitoring instrumentation.

O. Scope of License Conferred (Code §3-1-081.)

This permit does not convey any property rights of any sort, or any exclusive privilege.

P. Excess Emission Reports; Emergency Provision (Code §3-1-081.E, Code §8-1-030)

1. To the extent Permittee may wish to offer a showing in mitigation of any potential penalty, underlying upset events resulting in excess emissions shall reported as follows:

   a. The permittee shall report to the Control Officer any emissions in excess of the limits established by this permit. Such report shall be in two parts:

      i. Notifications by telephone or facsimile within 24 hours or the next business day, whichever is later, of the time when the owner or operator first learned of the occurrence of excess emissions, including all available information required under subparagraph b. below.

      ii. Detailed written notification within 3 working days of the initial occurrence containing the information required under subparagraph b. below.

   b. The excess emissions report shall contain the following information:

      i. The identity of each stack or other emission point where the excess emissions occurred.

      ii. The magnitude of the excess emissions expressed in the units of the applicable limitation.

      iii. The time and duration or expected duration of the excess emissions.

      iv. The identity of the equipment from which the excess emissions occurred.

      v. The nature and cause of such emissions.

      vi. If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions.

      vii. The steps that were or are being taken to limit the excess emissions. To the extent this permit defines procedures governing operations during periods of start-up or malfunction, the report shall contain a list of steps taken to comply with this permit.

      viii. To the extent excess emissions are continuous or recurring, the initial notification shall include an estimate of the time the excess emissions

will continue. Continued excess emissions beyond the estimated date will require an additional notification.

2. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

3. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of the following subparagraph are met.

4. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and

d. The permittee submitted notice of the emergency to the Control Officer by certified mail or hand delivery within 2 working days of the time when emissions limitations were exceeded due to emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

8. Facility Specific Data

A. Equipment

Equipment for which emissions are allowed by this permit are as follows:

1. ~~Cummins~~ Caterpillar Model C15 Diesel Engine Emergency Generator - 500 kW (670 HP), mfr. March, 2020

2. Wastewater Treatment Plant

B. Emission Inventory Table

ID	Source	Pollutants	Emission Rate (Tons/Yr.)
1	Emergency Generator	Nitrogen Oxides (NO_X)	0.8
		Carbon Monoxide	0.2

ID	Source	Pollutants	Emission Rate (Tons/Yr.)
1	Emergency Generator	Nitrogen Oxides (NO_X)	0.8
		Sulfur Dioxide (SO_X)	< 0.1
		Particulate Matter (PM_{10})	< 0.1
		Volatile Organic Compounds (VOCs)	<0.1
2	~~Fugitives~~ Wastewater Treatment Plant	Hydrogen Sulfide (H_2S)	1.8

Appendix A

Annual Report

Permit ~~S16129.000~~ S16192.000

Abstract

This constitutes an annual report, documenting emissions and use of emission-generating materials during the subject reporting period.

Facility - ~~Superstition Mountains Community Facilities District No.1~~
Apache Junction Sewer District
Water Reclamation Facility
5661 South Ironwood Drive
Apache Junction, Arizona

Reporting Period - January to December - Year_____

Fuel Report

Diesel purchased - _____ gallons

Sulfur in diesel - _____ percent or ppm

Were the verifications for diesel fuel from the supplier maintained as required in section §4.D.2 of this permit?
Yes _____ No _____

Generator Report

Total operation of the generator during the reporting period - _____ hours

Did the 500 kW generator run more than the specified 100 hours per year limitation? Yes _____ No _____

Did the generators meet the requirements of emission standards as specified in Section §3.E of this permit?
Yes _____ No _____

Were the records of the engine compliance maintained as required under Section §4.C of this permit?
Yes _____ No _____

~~RICE NESHAP Compliance Report~~

~~Were the operating limitations and maintenance requirements for the generator met as required under Section §3.E of this permit? Yes _____ No _____~~

~~Were the generators used for non-emergency situations? Yes _____ No _____~~

~~If yes, how many hours _____~~

Hydrogen Sulfide Compliance Report

Was the testing/modeling to show compliance with hydrogen sulfide standards performed as required under section §4.A? Yes _____ No _____

List the date of the most recent performance testing _____

During initial testing were there any exceedances in the hydrogen sulfide standards of 0.3 ppmv?
Yes _____ No _____

In case of exceedances was a compliance plan submitted as required under section §4.B?
Yes _____ No _____ N/A _____

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, that the statements and information in this report are true, accurate and complete.

Signed_____

Printed Name _____

Title _____

Contact Phone Number_____

Date _____

Email to - compliancereports@pinal.gov, or

Mail to - Pinal County Air Quality Control District
P.O. Box 987
Florence, AZ 85132