HOLCIM – SWR, INC. – QUEEN CREEK ~~FACILITY~~

1. Introduction

This permit pertains to a crushing and wash plant, operated by Holcim – SWR, Inc. The SIC Code is 1442 and the NAICS code is 212321. The facility, also known as the Queen Creek Facility, is located at 39401 North Schnepf Road, Queen Creek, Arizona, upon parcels also identified by Pinal County Assessor's Office as Parcel #'s: 104-69-001-A, 104-69-002-0, 104-69-003-0, and 104-69-004-0. The source is situated in an area classified as non-attainment for PM_{10}.

This permit revision, B31305.R04, re-authorizes the operation of two generators removed in a previous revision. The generators are a 901 kW (1,207 HP) Caterpillar model C27 and a 420 kW (569 HP) Caterpillar model C15. Both units are diesel-fueled. The New Source Performance Standards (NSPS) subpart IIII, which pertain to stationary compression ignition (CI) internal combustion engines (ICE) are applicable to these units. Two diesel fuel storage tanks are also included in this revision, but are considered insignificant emission activities since their capacities are less than 40,000 gallons each.

The annual operation of the generators is limited to 8,600 hours for each unit. Based on this amount of runtime, the generators have the potential to emit approximately forty-eight (48) tons of nitrogen oxides (NO_x) per year. This revision is considered to be significant due to this amount of new potential emissions.

~~This~~ Permit revision, B31305.R03, authorized a change in ownership for this facility. ~~Holcim group is now the current authorized entity.~~ The permittee ~~intends on utilizing line power to operate the crushing and screening equipment, and no longer intends~~ ceased ~~to~~ operating the two diesel-fueled generators that were previously permitted. ~~Because the generators will no longer be operated at this facility, the New Source Standards of Performance for Stationary Compression Ignition Combustion Engines, or 40 CFR Part 60 Subpart IIII, will no longer apply. The permittee is also no longer acquiring the High Efficiency Screening Plant and conveyors that were proposed in the previous permit revision.~~ This revision ~~does~~ authorized the permittee to install and operate several new pieces of equipment at this facility, including crushers, conveyors and material handling equipment. ~~The complete list of equipment currently permitted can be found in Section 9 of this permit~~. The permittee ~~is proposing an~~ increased ~~in~~ the throughput limit ~~of materials~~ from 500 tons/hour (tph) to 600 tph~~, to accommodate for the additional equipment.~~ With the removal of the diesel-fueled generators, even with the proposed increase in maximum material throughput, the facility ~~will see~~ had a net decrease in potential emissions. Therefore, this revision ~~is~~ was considered to be a minor revision.

Revision B31305.R02 authorized the installation of a screening plant in-line with the existing crusher, to allow for the desired size reduction feeding the existing wash plant. A feeder receives material from a front-end loader, and then dumps onto a conveyor belt which feeds into a high frequency screen. Undersized material falls through the screen to a conveyor that transfers material to the existing overland conveyor system. Oversized material is fed to a separate conveyor that recirculates into the existing crusher. In total, the screening plant consists of 6 transfer points. The complete list of equipment can be found in Section 9 of this permit. Subpart OOO is applicable to the added equipment, as the material transferred is non-metallic and the facility has a capacity of greater than 150 tons per hour. The additional PM10 emissions resulting from these processes were less than the regulated significant values, therefore this revision was considered to be a minor revision.

Revision B31305.R01 authorized the installation and operation of an overland conveyor system, material storage pile, and a 563 HP non-emergency diesel fueled generator. Since the generator was manufactured after April 2006, the New Source Standards for Stationary Compression Ignition Internal Combustion Engines in 40 CFR Part 60 Subpart IIII are applicable to the engine. Since the resulting PM_{10} and NO_X emissions due to the modification result in less than the significant levels, this revision qualified as a minor revision.

This source includes two (2) crushing circuits, consisting of primary and secondary crushers, conveyors, and screens for material sizing. After the secondary crushing circuit, the material proceeds through a wash plant, where the aggregate is saturated with water will moving through various pieces of equipment. Because the material is considered saturated with moisture, there are no potential emissions associated with the wash plant processes. The primary and secondary crushing circuits will be equipped with spray

bars in order to control the potential emissions of particulate matter (PM_{10}). The crushers subjects the facility to a new source performance standard ("NSPS") promulgated under §111 of the Clean Air Act ("CAA"). In the current operating configuration, the facility falls subject to regulation under the non-metallic mineral processing NSPS ("Subpart OOO").

A complete list of equipment from which emissions are allowed by this permit is given in Section 9 of this permit. As an informational disclosure, emissions listed in the last section of this permit entitled "Emission Inventory Table" constitute good-faith estimates of emissions subject to regulation, as set forth in the application for permit.

Even based upon continuous operation at full capacity, the cumulative potential to emit any single pollutant or combination of pollutants does not exceed any of the applicable major source thresholds under the Clean Air Act (1990) ("CAA") or local rules. The source does not fall subject to any applicable requirements under CAA §111 or §112. 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 authorizes the construction of the equipment described in the "Equipment Schedule" below. 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 the "Equipment Schedule" 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 and operate such equipment.

B. Minor New Source Review Requirements - Equipment Authorized ***[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)

Crushers, wash plant, conveyors, feed hoppers, screen, screw conveyors, blade mills.

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)

1. Material processing and conveying equipment of the crusher and wash plant shall be equipped with water sprays to comply with opacity limitations under this permit.

3. Listing of *(Currently Federally Enforceable)* Applicable Requirements

A. Those specific provisions of the Pinal-Gila Counties Air Quality Control District ("PGAQCD") Regulations, as adopted by the Pinal County Board of Supervisors on March 31, 1975, and approved by the Administrator as elements of the Arizona State Implementation Plan ("SIP") at 43 FR 50531, 50532 (11/15/78), and specifically the following rules:

4-2-040	Fugitive Dust Standards
~~7-3-1.2~~	~~Emission Standards - Particulate Emissions - Fugitive Dust~~

B. Those specific provisions of the Pinal-Gila Counties Air Quality Control District Regulations, as last amended by the Pinal County Board of Supervisors on June 16, 1980, and approved by the

Administrator as elements of the Arizona SIP at 47 FR 15579 (4/12/82), specifically, the following rules:

2-8-300	Visibility Limiting Standards - Performance Standard
~~7-3-1.1~~	~~Visible Emissions; General~~

4. 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 §3-1-040.C, 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 as allowed under this permit, or by a separate permit issued by the District or other competent authority.

C. Minor Source Status - Particulate Matter Emissions ***[Federally Enforceable Provision, pursuant to Code §3-1-084 (8/11/94)]*** (Code §3-1-081.A)

1. Annual Emission Cap

Permittee shall limit emissions, in any consecutive twelve month period, such that emissions of particulate matter, measured as PM_{10}, are less than 100 tons.

2. Process Controls - Particulate Emissions (Code §3-1-081.A)

a. Crushers shall be equipped with water spray bars adequate to comply with the opacity limitations under this permit.

b. At a minimum, the feeders, conveyors, screens, and crushers in the screening and crushing plant, shall be equipped with spray bars.

c. Aggregate charged to the wash plant shall be kept sufficiently moist to prevent any visible dust emissions.

d. Water spraying shall be used by the Permittee to control dust emissions from the haul roads and unpaved areas used by vehicles operated by the Company. Water shall be sprayed on the roads and unpaved areas each day they are used by vehicles for hauling or producing product and the areas are not visibly moist due to rainfall.

3. Annual Throughput Limitation

Within any 12 month rolling period, Permittee shall limit the annual facility throughput to 5,256,000 tons of material.

4. Facility-wide Emissions

The emission cap, emission controls and annual throughput limitation required under this permit will limit the potential emissions of particulate matter to approximately nine percent (9%) of the applicable major source threshold.

D. Minor Source Status - Nitrogen Oxide Emissions ***[Federally Enforceable Provision, pursuant to Code §3-1-084 (8/11/094)]*** (Code §3-1-081.A)

1. Emission Cap

Permittee shall limit the emissions, in any consecutive twelve-month period, such that emissions of nitrogen oxides are less than 100 tons.

2. Generators Operational Limitations

a. Permittee shall limit the non-emergency operation of each generator to not more than 8,600 hours per year.

b. Generator shall be operated according to manufacturer's instructions, and compliance with this requirement shall be demonstrated by maintaining a record of the manufacturer's specifications for the generator.

3. Emission Limitation

The emission cap and operational limitation required by this permit will limit the potential emissions of nitrogen oxide from the two generators to approximately 48 tons of the 100 tons per year major source threshold.

E. NSPS Subpart IIII Standards - Stationary Compression Ignition (CI) and Internal Combustion Engines (ICE) ***[Currently federally enforceable; 40 CFR §§60.4204 (a), 60.4204.(b), Subpart IIII Table 1, & §1039.105]***

1. Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder shall comply with the following emission standards:

Unit	Mfg. Date	Displacement (l) per Cylinder	NMHC + NOX g/kw-hr	CO g/kw-hr	PM g/kw-hr
Caterpillar C27 901 kW (1,207 HP) Diesel Generator	2011	< 10	6.4	3.5	0.2

a. Measure smoke opacity as specified in 40 CFR part 1065, subpart L. Smoke opacity from your engines may not exceed the following standards:

i. 20 percent during the acceleration mode.

ii. 15 percent during the lugging mode.

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

2. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder shall comply with the following emission standards:

Unit	Mfg. Date	Displacement (l) per Cylinder	HC g/kw-hr	NO_X g/kw-hr	CO g/kw-hr	PM g/kw-hr

Caterpillar C15 420 kW (569 HP) Diesel Generator	5/2006	< 10	1.3	9.2	11.4	0.54

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

1. Stationary Rotating Machinery Emission Limitation Standard for Particulate Matter

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 and

Q = the total heat input of all operating fuel-burning units of stationary rotating machinery on the premises in million Btu/hr.

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

b. 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.

c. 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.

G. Particulate Emissions - Process Industries ***[Currently federally enforceable pursuant to PGAQCD Reg. 7-3-1.8 (3/31/75) approved as a SIP element at 43 FR 50531 (11/15/78)]*** (Code §5-5-190)

Permittee shall capture, to the maximum practical extent, all particulate matter resulting from operation of individual equipment comprising the complete process. Permittee shall not cause, suffer, allow or permit the discharge of particulate matter into the atmosphere in any one hour from any existing process source whatsoever, except fuel-burning equipment, in total quantities in excess of the amount calculated by whichever of the following equations may be applicable:

1. For any process operating at a production process weight rate ("P") up to 30 tons-per-hour, allowable emissions ("E") shall not exceed:

$$E = 4.10*P^{0.67} \text{ pounds-per-hour.}$$

2. For any process operating at a production process weight rates ("P") equal to or greater than 30 tons-per-hour, allowable emissions ("E") shall not exceed:

$$E = (55.0*P^{0.11} - 40.0) \text{ pounds-per-hour.}$$

E. NSPS Opacity Limits - Nonmetallic Mineral Processing Plants Subpart OOO ***[Federally enforceable pursuant to Code §6-1-030.66 and 40 CFR§60.672.(b & (d))]***

The following standards shall apply:

1. Permittee shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 7 percent opacity except that fugitive emissions from the crusher shall not exhibit greater than 12 percent opacity.

2. Affected facilities are:

   a. Screens, screen feeders
   b. Conveyor drops / transfer points
   c. Crushers
   d. Crusher conveyors

3. Truck dumping of nonmetallic minerals into any screening operation, feed hopper or crusher shall be exempt from the opacity limitations of this section.

F. Particulate Emissions - Opacity Limits

1. SIP Limitation ***[Federally enforceable pursuant to PGAQCD Reg. 7-3-1.1 (8/7/80) approved as a SIP element at 47 FR 15580 (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 provision, pursuant to Code §2-8300 (as amended 5/18/05) approved as a SIP element at 47 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 Emissions 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 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 ***[Federally enforceable pursuant to Code §4-1-030 (10/28/15) approved as a SIP element at 82 FR 20267 (5/1/17)]***~~

~~1. Permittee shall not cause or allow visible fugitive dust emissions from open areas / vacant lots (areas not being utilized for an activity) to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.~~

~~2. Permittee shall erect barriers or no trespassing signs upon evidence of trespass on open areas/ vacant lots.~~

~~3. Permittee shall stabilize any open area / vacant lot greater than 1.0 acre that has 0.5 acre or more of disturbed surface and sign up for the Pinal County Dust Control forecast within 30 days of discovery. The open area / vacant lot shall be stabilized the day leading up to and the day that is forecast to be high risk for dust emissions.~~

~~4. Permittee shall not remove vegetation from open areas / vacant lots without applying dust suppressants before and during the weed abatement. Trackout onto paved surfaces must be prevented or eliminated and dust suppressants must be applied following weed abatement to stabilize the entire surface.~~

~~5. Stabilization of open areas / vacant lots is determined by the drop ball, threshold friction velocity, flat vegetation or standing vegetation methods listed in PCAQCD Code 4-9320.~~

~~6. Permittee shall not cause or allow visible fugitive dust emissions from unpaved lots (areas being utilized for an activity) greater than 5000 square feet to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.~~

~~7. Permittee shall not allow silt loading equal to or greater than 0.33 oz/ft^2 or allow the silt content to exceed 8% on unpaved lots greater than 5000 square feet.~~

~~8. Permittee shall stabilize unpaved lots greater than 5000 square feet by paving, applying a dust suppressant or graveling.~~

~~9. Permittee shall clean up trackout on a paved public roadway that exceeds 50 feet within 24 hours of discovery and limit opacity to 20% or less while using a rotary brush or broom.~~

~~10. Permittee shall make a record of the control measures applied.~~

H. Surface Stabilization ***[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. 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 for the Generators, Subpart IIII ***[40 CFR §60.4207(b)]***

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 which requires that diesel fuel shall:

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

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

2. Other Fuels (Code §§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 ***[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)]***

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.

5. Compliance Demonstration

A. Testing - NSPS Subpart OOO Performance Test ***[Federally enforceable pursuant to Code §6-1030.66 and 40 CFR §60.675.b]*** (Code §§3-1-160 & 3-1-170)

1. Performance Test

A performance testing for opacity shall be conducted on all transfer and emission points of the crusher system ~~within 60 days after achieving the maximum production rate at which the plant will be operated, but no later than 180 days after initial startup.~~ The opacity tests shall be run using standard EPA test method 9 (40 CFR Part 60). The tests shall be performed at the maximum practical production rate.

2. Test Protocol

A test plan protocol for each test shall be submitted to the District at least thirty (30) days before the testing.

3. Performance Test Notice

Notice of the performance test required by this permit shall be submitted to the District at least thirty (30) days prior to running the tests.

4. Test Report

A copy of the test report shall be submitted to the District for approval within forty-five (45) days after the test.

B. Operational Compliance Demonstration for NSPS IIII CI or ICE Engines ***[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. Change only those emission-related settings that are permitted by the manufacturer.

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. Regular Emissions Monitoring

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 each generator is operated.

2. Non-instrumental Emissions Monitoring – Sulfur Dioxide

As a surrogate measurement for monitoring emissions of sulfur dioxide, Permitee shall obtain verification of the total sulfur content in the diesel fuel purchased from the supplier.

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

a. Since the emissions authorized under this permit constitute a direct function of the material throughput at the source, Permittee shall maintain records of the volume of material processed through the plant.

b. To verify effective control of fugitive particulate emissions, Permittee shall maintain on-site, a daily log of water truck operations. The log shall include volume of water applied.

4. Subpart OOO - Water Spray Monitoring for Control of Particulate Matter ***[40 CFR §60.674(b), §60.676(b)]***

To verify effective control of particulate emissions, Permittee shall comply with the following:

a. Perform monthly inspections of water sprays to check that water is flowing to all discharge spray nozzles in the wet suppression system.

b. Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the water is not flowing properly during an inspection of the water spray nozzles.

c. Record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a logbook.

d. Maintain the logbook onsite and make available to the Administrator upon request.

e. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays.

D. Recordkeeping ***[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)]*** (Code §3-1-083)

Permittee shall maintain records of:

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

2. The occurrence and duration of any start-up, shutdown or malfunction in the operation of the permitted facility or any air pollution control equipment. For purposes of this provision, a "shut-down" means a cessation of operations at the entire facility for more than seven days, and a "start-up" constitutes the reactivation of the facility after a "shut-down."

E. Compliance Reporting ***[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)]*** (Code §3-1-083.A)

In order to demonstrate compliance with the provisions of this permit, the Permittee shall submit a semi-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. All instances of deviations from permit requirements shall be clearly identified in such reports. For brevity, such deviation reports may incorporate by reference any written supplemental upset reports filed by Permittee during the reporting period. The report shall be submitted to the District within 30 days after the end of each calendar half. Appendix A of this permit is a form which may be used for the report.

F. Annual Regular Compliance/Compliance Progress Certification (Code §3-1-083.A.4.)

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.

6. 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.

B. Annual Emissions Inventory ***[Federally Enforceable Provision pursuant to code §3-1-103 (2/22/95) approved as a SIP element at 65 FR 79742 (12/2/00)]*** ~~[Code §3-1-103. (Nov. '93)]~~

Permittee shall complete and submit to the District an annual emissions inventory, disclosing actual emissions for the preceding calendar year. Submittal of the form set forth in Appendix A of this permit fulfills this requirement.

7. Fee Payment (Code §3-7-600.)

As an essential obligation under this permit, a 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.

8. 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., 3-1-087.A.1.c., 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 and a showing that the District representative is equipped with certain safety equipment, namely a hard hat, 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. Other than as expressly provided in Code Chapter 3, Article 2, 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)

5. Revision to Permit Provisions Designated as Federally Enforceable Pursuant to Code §31-084 ***[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)]***

As an express condition of preserving the federal enforceability of any provision of this permit designated "federally enforceable" pursuant to Code §3-1-084, Permittee shall not make any facility allowed change that would contravene such provision, until thirty (30) days after the Permittee has previously furnished notice of the proposed change to the

District and to the Administrator, to thereby allow the Administrator opportunity to comment upon the continued "federal enforceability" of the subject provision after the proposed change.

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;

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

c. The EPA makes a material objection to any of those federally enforceable designations under Code §3-1-084 after the normal EPA review period is ended.

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 be 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.

9. Equipment Schedule

A. Equipment List

1. Primary Crushing & Screening

ID	Type	Manufacturer	Model	Capacity

				Value	Units
FH-1	Vibrating Feed Hopper	KPI/JCI – Elburn	4824/2 VGF	600	tph
C-1	Conveyor	Marco – SC	42 X 100 BEND	600	tph
SCN-1	Horizontal Scalping Screen	Terex Cedarapids – SC	TSH8203-38	600	tph
MAGNET	Magnet	ERIES	Eries MAG	600	tph
C-2	Conveyor	Kolberg	36 X 125	600	tph
SB-1	Surge Bin	Superior Industries	26 CYD	300	tph
CR-1	Cone Crusher – Secondary	Sandvik – SC	H4800	600	tph
C-3	Conveyor	Marco – SC	36 X 80	600	tph
C-4	Conveyor	Marco – SC	36 X 160	600	tph
C-5	Conveyor	Structure – SC	60 X 30	600	tph
C-6	Conveyor	Superior	36” X 750’ GLCC	600	tph
C-7	Conveyor	Superior	36” X 1000’ GLCC	600	tph
TNL-1	Road Tunnel	Superior	Tunnel	3000	Ton LIVE
C-8	Stacker	Superior	36” X 150’ Portable Radial Stacker Conveyor	600	tph
BH-1	Bin Hopper	Superior	8’ X 16’ Portable Feed Hopper	600	tph
SCN-2	High Frequency Screen	TCI	6X182D	300	tph
PCP-1	Tertiary Crusher	Superior Portable Valor	V1680	600	tph
MAGNET	Magnet	ERIES	Eries MAG	600	tph
C-9	Conveyor	Fischer Industries – SC	36 X 80	600	tph
C-10	Conveyor	Fischer Industries – SC	36 X 80	600	tph
C-11	Conveyor	Fischer Industries – SC	36 X 80	600	tph

2. Secondary & Tertiary Crushing & Screening

ID	Type	Manufacturer	Model	Capacity

				Value	Units
TNL-2	Surge Tunnel	Superior	10W X 60L Dome Tunnel	3000	Ton LIVE
VF-1	Pan Feeder (Qty: 2)	Superior	42 X 84 Syntron	450	tph
C-12	Conveyor	Fischer Industries	30” X 190’	450	tph
C-13	Conveyor	Fischer Industries	30” X 185’	450	tph
BMW-1	Twin Blade Mill (Qty: 2)	KPI/JCI	36” x 19’ Twin Blade Mill Washer	450	tph
SCN-3	Horizontal Sizing Screen	Deister	7203 Horizontal	600	tph
C-14	Conveyor	Fischer Industries	30” X 80’	600	tph
C-15	Conveyor	Fischer Industries	36” X 60’	600	tph
C-16	Conveyor	Fischer Industries	36” X 60’	600	tph
C-17	Conveyor	Fischer Industries	36” X 100’	600	tph
FMW-1	Twin Sand Screw (Qty: 2)	Superior	48” X 35’ Washer	450	tph
C-18	Conveyor	Fischer Industries	36” X 60’	600	tph
TS-1	Barrel Washer	AZFAB	96”	600	tph
TS-2	Barrel Washer	AZFAB	96”	600	tph
ATM-1	Attrition Bank (Qty: 2)	Superior	Attrition Mill	75	tph
ATM-2	Attrition Bank (Qty: 2)	Superior	Attrition Mill	75	tph
FMW-2	Dewatering Washer (Qty: 2)	TRIO	36” x 25’ Aggre-Dry Washer	250	tph
C-19	Conveyor	Superior	30” X 125’	600	tph
Slurry	Thickner Tank	N/A	50’ Diameter High	-	gallons
Water	Fresh Water	N/A	70’ Diameter High	-	gallons
FRP-1	Slurry Tanks (Qty: 3)	Warman	Cyclone 30”	3000	gallons

3. Generators

a. 1,207 HP (901 kW) Caterpillar Diesel-fueled Generator, Model C27, Manufactured 2011

b. 569 HP (420 kW) Caterpillar Diesel-fueled Generator, Model C15, Serial #FSE00243, 6 Cylinder (2.5 displacement per cylinder), Manufactured 5/2006.

B. Insignificant Activities

1. 1 – Diesel Tank with a 10,000-gallon capacity

2. 1 – Diesel Tank with a 5,000-gallon capacity

10. Potential Emissions

ID	Source	Pollutants	Emission Rate (Tons/Yr.)
1	Primary Crushing & Screening	Particulate Matter (PM_{10})	9.11
2	Secondary & Tertiary Crushing & Screening	Particulate Matter (PM_{10})	0.36
3	Generators	Nitrogen Oxides (NO_x)	48.2
		Carbon Monoxide (CO)	24.3
		Sulfur Oxides (SO_x)	47.1
		Particulate Matter (PM_{10})	1.5
		Volatile Organic Compounds (VOC)	7.3

Appendix A

Semi-annual Report

Permit ~~B31305.R03~~ B31305.R04

Abstract

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

Facility: Holcim – SWR, Inc.
Queen Creek Facility
39401 North Schnepf Road, Queen Creek, AZ

Reporting Period: January-June _____ or July-December _____ Year _____

Fuel Report

Diesel purchased - _____ gallons

Sulfur in diesel - _____ percent

Generator Report

Operation of the 420 kW (569 HP) generator during the reporting period - _____ hours

Operation of the 901 kW (1,207 HP) generator during the reporting period - _____ hours

NSPS Subpart IIII Compliance Report

Were the operating limitations and maintenance requirements for the generator met as required under Section §5.B of this permit? Yes _____ No _____

Were the records of hours of operation for the generators maintained as required under Section §5.C.1 of this permit? Yes _____ No _____

Material Report

Total material processed through the plant during the reporting period _____ tons

Water Report

Was a log of daily water-truck operations kept, as required by §5.C.3.b of this permit? Yes_____ No_____

Total volume of water used during the reporting period _____ gallons

Were water spray bars inspection records maintained as required in Section §5.C.4 of this permit?
Yes_____ No_____

Performance Test Report

Was a~~n initial~~ performance test conducted as required by Section §5.A of this permit? Yes_____ No_____

If yes then please list the date of the most recent performance test _____

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 _____

Date_____

Printed Name _____

Title_____

Contact Phone Number_____

Email To: compliancereports@pinal.gov, or

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