



Louisville Metro Air Pollution Control District
 850 Barret Avenue
 Louisville, Kentucky 40204-1745



Federally Enforceable District Origin Operating Permit (FEDOOP)

Permit No.: O-0020-16-F

Plant ID: 0020

Effective Date: xx/xx/2016

Expiration Date: xx/xx/2016

Permission is hereby given by the Louisville Metro Air Pollution Control District to operate the process(es) and equipment described herein which are located at:

The Quikrete Companies, Inc. (Kentucky)
 3130 Millers Lane
 Louisville, Kentucky 40216

The applicable procedures of District Regulation 2.17 regarding review by the U.S. EPA and public participation have been followed in the issuance of this permit. Based on review of the application on file with the District, permission is given to operate under the conditions stipulated herein. If a renewal permit is not issued prior to the expiration date, the owner or operator may continue to operate in accordance with the terms and conditions of this permit beyond the expiration date, provided that a complete renewal application is submitted to the District no earlier than twelve (12) months and no later than ninety (90) days prior to the expiration date.

Emission limitations to qualify for non-major status:

Pollutant: PM/PM₁₀
 Tons/year: < 25

Application No.:	68330	Application Received:	09/26/2014
	4788		04/16/2009
	4787		03/31/2006

Permit Writer: Nantaporn Noosai

Date of Public Notice: 01/26/2016

{Manager1}
 Air Pollution Control Officer
 {date1}

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FEDOOP Permit Revisions/Changes

Revision No.	Permit No.	Issue Date	Public Notice Date	Change Type	Change Scope	Description
Initial	0126-01-F	06/30/2001	05/20/2001	Initial	Entire Permit	Initial Permit Issuance
Renewal	O-0020-16-F	xx/xx/2016	01/26/2016	Renewal	Entire Permit	Permit Renewal, incorporation of construction permit 299-03-C

Construction Permit History

Permit No.	Issue Date	Description
257-86	12/30/1986	One (1) filtered vent, make Shanks industries, model # 16, used to control the emissions from cement silo# 2.
258-86	12/30/1986	One (1) concrete mix bagging operation.
259-86	12/30/1986	One (1) baghouse, make Fuller, 2 zone, used for controlling the dust generated by the concrete mix bagging operation.
8-92	11/26/1991	One (1) Fuller dust collector, model 6-48, with 3,000 ft ² cloth and One (1) fuller dust collector, model 2-24, with 500 sq.ft ² cloth.
299-03-C	07/15/2003	One (1) pulse-jet baghouse rated at 17,000 acfm.

Abbreviations and Acronyms

AP-42	- AP-42, <i>Compilation of Air Pollutant Emission Factors, published by U.S.EPA</i>
APCD	- Louisville Metro Air Pollution Control District
BAC	- Benchmark Ambient Concentration
BACT	- Best Available Control Technology
Btu	- British thermal unit
CEMS	- Continuous Emission Monitoring System
CFR	- Code of Federal Regulations
CO	- Carbon monoxide
District	- Louisville Metro Air Pollution Control District
EA	- Environmental Acceptability
gal	- U.S. fluid gallons
GHG	- Greenhouse Gas
HAP	- Hazardous Air Pollutant
HCl	- Hydrogen chloride
Hg	- Mercury
hr	- Hour
in.	- Inches
lbs	- Pounds
l	- Liter
LMAPCD	- Louisville Metro Air Pollution Control District
mmHg	- Millimeters of mercury column height
MM	- Million
NAICS	- North American Industry Classification System
NO _x	- Nitrogen oxides
PM	- Particulate Matter
PM ₁₀	- Particulate Matter less than 10 microns
PM _{2.5}	- Particulate Matter less than 2.5 microns
ppm	- parts per million
PSD	- Prevention of Significant Deterioration
psia	- Pounds per square inch absolute
QA	- Quality Assurance
RACT	- Reasonably Available Control Technology
SIC	- Standard Industrial Classification
SIP	- State Implementation Plan
SO ₂	- Sulfur dioxide
STAR	- Strategic Toxic Air Reduction
TAC	- Toxic Air Contaminant
UTM	- Universal Transverse Mercator
VOC	- Volatile Organic Compound
w.c.	- Water column
year	- Any period of twelve consecutive months, unless "calendar year" is specified
yr	- Year, or any 12 consecutive-month period, as determined by context

Preamble

This permit covers only the provisions of Kentucky Revised Statutes Chapter 77 Air Pollution Control, the regulations of the Louisville Metro Air Pollution Control District (District) and, where appropriate, certain federal regulations. The issuance of this permit does not exempt any owner or operator to whom it has been issued from prosecution on account of the emission or issuance of any air contaminant caused or permitted by such owner or operator in violation of any of the provisions of KRS 77 or District regulations. Any permit shall be considered invalid if timely payment of annual fees is not made. The permit contains general permit conditions and specific permit conditions. General conditions are applicable unless a more stringent requirement is specified elsewhere in the permit.

General Conditions

1. The owner or operator shall comply with all General Conditions herein and all terms and conditions in the referenced process/process equipment list.
2. All terms and conditions in this FEDOOP are enforceable by EPA, except those terms and conditions specified as District-only enforceable, and those which are not required pursuant to the Clean Air Act Amendments of 1990 (CAAA) or any of the Act's applicable requirements.
3. All application forms, reports, compliance certifications, and other relevant information submitted to the District shall be certified by a responsible official. If a change in the responsible official (RO) occurs during the term of this permit, or if an RO is added, the owner or operator shall provide written notification (Form AP-100A) to the District within 30 calendar days of such change or addition.
4. The owner or operator shall submit an annual compliance certification, signed by the responsible official, to the District, on or before April 15 of the year following the year for which the certification applies. This certification shall include completion of District Form 9440-O.
5. Periodic testing, instrumental monitoring, or non-instrumental monitoring, which may include record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstrating continuing compliance with the terms and conditions of this permit.
6. The owner or operator shall retain all records required by the District or any applicable requirement, including all required monitoring data and supporting information, for a period of five years from the date of the monitoring, sampling, measurement, report, or application, unless a longer time period for record retention is required by the District or an applicable requirement. Records shall be retrievable within a reasonable time and made available to the District, Kentucky Division for Air Quality, or the EPA upon request.
7. The owner or operator shall provide written notification to the District, and receive approval, prior to making any changes to existing equipment or processes that would result in emissions of any regulated pollutant in excess of the allowable emissions specified in this permit.
8. This permit may be reissued, revised, reopened, or revoked pursuant to District Regulation 2.17. Repeated violations of permit conditions are sufficient cause for revocation of this permit. The filing of a request by the owner or operator for any reissuance, revision, revocation, termination, or a notification of planned changes in equipment or processes, or anticipated noncompliance shall not alter any permit requirement.
9. Except as otherwise specified or limited herein, the owner or operator shall not allow or cause the emissions to equal or exceed either 10 tons per year, or such lesser quantity as

the EPA has established by rule, of any one Hazardous Air Pollutant (HAP) or 25 tons per year of all HAPs combined. Fugitive HAP emissions shall be included in this limit. HAPs are listed in Section 112(b) of the CAAA and as amended in 40 CFR 63, Subpart C.

10. Except as otherwise specified or limited herein, the owner or operator shall not allow or cause the emissions to equal or exceed 100 tons per year of any regulated pollutant, including particulate matter, PM₁₀, PM_{2.5}, sulfur dioxide, carbon monoxide, nitrogen oxides, lead, hydrogen sulfide, gaseous fluorides, total fluorides, or Volatile Organic Compounds (VOC); any pollutant subject to any standard in District Regulation 7.02; any substance listed in sections 112(r), 602(a) and 602(b) of the CAAA; or any combination of greenhouse gasses whose combined global warming potential equals or exceeds 100,000 tons CO₂-equivalent, as defined in 40 CFR 98). Fugitive emissions shall be included in these limits for source categories listed in District Regulation 2.16.
11. Unless specified elsewhere in this permit, the owner or operator shall complete required monthly record keeping within 30 days following the end of each calendar month.
12. Unless specified elsewhere in this permit, the owner or operator shall submit annual reports demonstrating compliance with the emission limitations specified. The report shall contain monthly and consecutive 12-month totals for each pollutant that has a federally enforceable limitation on the potential to emit. All reports shall include the company name, plant ID number, and the beginning and ending date of the reporting period. The compliance reports shall clearly identify any deviation from a permit requirement or a declaration that there were no such deviations. All annual compliance reports shall include the following per Regulation 2.17, section 3.5.
 - A certification statement: "Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete", and
 - The signature and title of a responsible official of the company.

The report must be postmarked no later than March 1 of the year following the calendar year covered in the annual report.

13. The owner or operator shall comply with all applicable requirements of the following federally enforceable District Regulations:

Regulation	Title
1.01	General Application of Regulations and Standards
1.02	Definitions
1.03	Abbreviations and Acronyms
1.04	Performance Tests
1.05	Compliance with Emissions Standards and Maintenance Requirements
1.06	Source Self-Monitoring, Emissions Inventory Development and Reporting
1.07	Excess Emissions During Startups, Shutdowns, and Upset Conditions
1.08	Administrative Procedures

Regulation	Title
1.09	Prohibition of Air Pollution
1.10	Circumvention
1.11	Control of Open Burning
1.14	Control of Fugitive Particulate Emissions
2.01	General Application (Permit Requirements)
2.02	Air Pollution Regulation Requirements and Exemptions
2.03	Authorization to Construct or Operate; Demolition/Renovation Notices and Permit Requirements
2.07	Public Notification for Title V, PSD, and Offset Permits; SIP Revisions; and Use of Emission Reduction Credits
2.09	Causes for Permit Modification, Revocation, or Suspension
2.10	Stack Height Considerations
2.11	Air Quality Model Usage
2.17	Federally Enforceable District Origin Operating Permits
4.01	General Provisions for Emergency Episodes
4.02	Episode Criteria
4.03	General Abatement Requirements
4.07	Episode Reporting Requirements
6.01	General Provisions
6.02	Emission Monitoring for Existing Sources
7.01	General Provisions

14. The owner or operator shall comply with all applicable requirements of the following District-only enforceable regulations:

Regulation	Title
1.12	Control of Nuisances
1.13	Control of Objectionable Odors in the Ambient Air
2.08	Fees
5.00	Definitions
5.01	General Provisions
5.02	Adoption and Incorporation by Reference of National Emission Standards for Hazardous Air Pollutants
5.14	Hazardous Air Pollutants and Source Categories
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant
5.21	Environmental Acceptability for Toxic Air Contaminants
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant
5.23	Categories of Toxic Air Contaminants
7.02	Adoption of Federal New Source Performance Standards

15. The owner or operator shall submit emission inventory reports, as required by Regulation 1.06, if so notified by the District.
16. The owner or operator shall submit timely reports of abnormal conditions or operational changes that may cause excess emissions, as required by Regulation 1.07.
17. Applications, reports, test data, monitoring data, compliance certifications, and any other document required by this permit shall be submitted to:

***Air Pollution Control District
Room 205
850 Barret Ave
Louisville, KY 40204-1745***

Emission Unit U1**U1 Description:** Packaged concrete manufacturing process**U1 Applicable Regulations:**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
2.17	Federally Enforceable District Origin Operating Permits	All
1.14	Control of Fugitive Particulate Emissions	1 and 2
6.09	Standards of Performance for Existing Process Operations	1 through 4
7.02	Adoption and Incorporation by Reference of Federal New Source Performance Standards	3.75
7.08	Standards of Performance for New Process Operations	1 through 4
40 CFR 60, Subpart A	General Provision	60.01 through 60.19
40 CFR 60, Subpart OOO	Standards of Performance for Nonmetallic Mineral Processing Plants	60.670(a)(1), 60.670(e), 60.671, 60.672 (a), 60.672 (b), and 60.672 (e)

U1 Equipment:

Emission Point	Description	Applicable Regulation	Installation Date	Control Device (Control ID)
E1	One (1) sand and aggregate dryer, capacity 6 MMBtu/hr and 40 ton sand /hr. Fuels: natural gas.	6.09	1973	C1
E2	One (1) sand and aggregate bin with 4 compartments, capacity 40 ton/hr.	6.09	1973	C1
E3	Silo #1: Portland cement silo with bin vent filter, make MAC Eq. capacity 25 ton/hr.	7.08	1980	N/A
E4	Silo #2: Portland cement silo with bin vent, make Arc West Fabricators, model 160, capacity 25 ton/hr.	7.08	1980	N/A
E5a	One (1) weigh hopper feeding and sealed holding bin, capacity 38 ton/hr (for a concrete mix bagging operation).	7.08 and 40 CFR 60, Subpart OOO	1989	C5
E5b	One (1) mixer fed from two silos and sand holding bin, capacity 40 ton/hr (for concrete mix bagging operation).	7.08 and 40 CFR 60, Subpart OOO	1989	C5

Emission Point	Description	Applicable Regulation	Installation Date	Control Device (Control ID)
E5c	One (1) tube sand packaging system, capacity 3.5 ton/hr (for concrete mix bagging operation).	7.08 and 40 CFR 60, Subpart OOO	1989	C5
E5d	One (1) play sand packaging system, capacity 8.75 ton/hr (for concrete mix bagging operation).	7.08 and 40 CFR 60, Subpart OOO	1989	C5
E6a	One (1) closed, sealed bin component holding play sand with bin vent filter, capacity 10 ton/hr (for play sand system)	7.08 and 40 CFR 60, Subpart OOO	1996	N/A
E6b	One (1) bagging operation with bin vent filter, capacity 7.5 ton/hr (for play sand system).	7.08 and 40 CFR 60, Subpart OOO	1996	N/A

U1 Control Devices:

Control Device ID	Description Make/Model	Pollutant Controlled	Stack ID
C1	One (1) Dust collector with 3000 ft ² of filter surface, make Fuller, model Plenum Pulse 6 zone #48, rated at 14,000 acfm. and one (1) dust collector with 500 ft ² of filter surface area, make Fuller, model Plenum Pulse 2 zone #24. These two units are connected in series.	PM	S1
C5	Pulse-jet baghouse with 3,100 ft ² of filter surface area, rated at 14,000 acfm.	PM	S5
C7	Pulse-jet baghouse, rated at 17,000 acfm ¹ .	PM	S5

¹ The baghouse is used to control fugitive emissions inside the building.

U1 Specific Conditions

S1. Standards (Regulation 2.17, section 5.1)

a. PM/PM₁₀

- i. The owner or operator shall not allow or cause the *plant-wide* PM₁₀ emissions to equal or exceed 25 tons during any consecutive 12-month period². (Regulation 2.17, section 5.1) (Regulation 5.00, section 1.13.5.1)
- ii. For each Emission Point E1 and E2, the owner or operator shall not allow PM emissions to equal or exceed 42.52 lb/hr, based on actual operating hours in calendar day.³ (Regulation 6.09, section 3.2)
- iii. For each Emission Point E3 and E4, the owner or operator shall not allow PM emissions to equal or exceed 26.41 lb/hr, based on actual operating hours in calendar day.⁴ (Regulation 7.08, section 3.1.2)
- iv. The owner or operator shall not allow PM emissions to equal or exceed, based on actual operating hours in calendar day, the following emission standards:⁴ (Regulation 7.08, section 3.1.2)

Emission Point	Emission Process	Emission Standard (lb/hr)
E5a	Weigh hopper feeding and sealed holding bin, capacity 38 ton/hr.	30.97
E5b	Mixer fed from the 2 silos and sand holding bin, capacity 40 ton/hr.	31.23
E5c	Tube sand packaging system, capacity 3.5 ton/hr.	7.80
E5d	Play sand packaging system, capacity 8.75	13.77
E6a	Closed, sealed bin component holding play sand, capacity 10 ton/hr	14.96
E6b	Bagging operation, capacity 7.5 ton/hr.	12.52

- v. The owner or operator shall operate and maintain the control device at all times an associated emission point is in operation, including periods of startup, shutdown, and malfunction, in a manner consistent with good air

² On 09/26/ 2014, the company requested the limits of the criteria pollutant PM₁₀ < 25 tpy to qualify as FEDOOP STAR Exempt as defined by Regulation 5.00, section 1.13.5.

³ The District has determined, using emission factors from AP-42: Chapters 1.4 and 11.19: Natural Gas Combustion and Sand and Gravel Processing, that the source cannot exceed the lb/hr emission standards controlled.

⁴ The District has determined, using emission factors from AP-42: Chapter 11.19: Sand and Gravel Processing, that the source cannot exceed the lb/hr emission standards uncontrolled. Therefore, no monitoring, recordkeeping, or reporting is required for demonstrating compliance with the hourly PM emission standard.

pollution control practice to meet the standards. (Regulation 2.03, section 6.1)

b. Opacity

- i. For Emission Points E1 -E4, the owner or operator shall not allow or cause visible emissions to equal or exceed 20% opacity. (Regulation 6.09, section 3.3.1 and Regulation 7.08, section 3.1.1)
- ii. For Emission Points E5a – E5d and E6a – E6b, the owner or operator shall not allow or cause visible emissions from affected facilities with capture systems to exceed 7% opacity. (40 CFR 60.672 (a), this streamlined permit condition assures compliance with Regulation 7.08, section 3.1.1.)
- iii. For Emission Points E5a – E5d and E6a – E6b, the owner or operator shall not allow or cause fugitive emissions to exceed 10% opacity from affected facilities without capture systems and for fugitive emissions escaping capture systems. (40 CFR 60.672 (a) and (e))
- iv. The owner or operator shall not cause or permit the discharge of visible fugitive emissions beyond the lot line of the property on which the emissions originate. (Regulation 1.14, section 2.4)

c. NO_x

For Emission Point E1, the owner or operator shall not cause to be discharged into the atmosphere from any affected facility or from any air pollution control equipment installed on any affected facility any NO_x fumes in excess of 300 ppm by volume expressed as NO₂.⁵ (Regulation 6.09, section 4)

S2. Monitoring and Record Keeping (Regulation 2.17, section 5.2)

The owner or operator shall maintain the following records for a minimum of 5 years and make the records readily available to the District upon request.

a. PM/PM₁₀

- i. The owner or operator shall calculate the PM₁₀ emissions based on the material throughput and emission factors from AP-42, Chapter 11 Section 11.12 Concrete Batching and Section 11.19.1 Sand and Gravel Processing, unless another method is approved in writing by the District.

⁵ The District has performed a one-time NO_x compliance demonstration using AP-42, Chapter 1.4 Natural Gas Combustion, emission factors. The District has determined that the source cannot exceed emission standard uncontrolled. Therefore, there are no monitoring, record keeping, and reporting requirements with respect to NO_x emission limits.

Uncontrolled Source	Total PM ₁₀ (Emission factors in lb/ton)	E.F. Rating
Aggregate transfer* (SCC 3-05-011-04, 21, 23)	0.0033	D
Sand transfer* (SCC 3-05-011-05, 22, 24)	0.00099	D

*Use this emission factor for aggregate/sand transfer to conveyors, elevated storage bin, packaging system, and bagging operation

Using the above emission factors calculating the ton per month of PM₁₀ emission as follows:

$$E_{PM10} = (X)(EF \text{ lb/ton})(1 \text{ ton}/2000 \text{ lb.})$$

Where: E_{PM10} = uncontrolled PM₁₀ emissions (tons) during a month

X = the amount of material throughput (tons) processed by the unit during a month

Controlled Source	Total PM ₁₀ (Emission factors in lb/ton)	E.F. Rating
Sand dryer with fabric filter (SCC 3-05-027-02)	0.01	D
Cement unloading to elevated storage silo cement (pneumatic) (3-05-011-07)	0.00034	D
Cement supplement unloading to elevated storage silo (pneumatic) (3-05-011-17)	0.0049	E
Weigh hopper loading (3-05-011-08)	ND* (0.0028)	D
Mixer loading (central mix) (3-05-011-09)	0.0055	B

*AP-42 Chapter 11, Section 11.12 does not have controlled emission factor for weigh hopper loading. The uncontrolled emission factor (0.0028 lb/ton) should be used for emission calculation for the equipment.

Using the above emission factors calculating the ton per month of PM₁₀ emission as follows:

$$E_{PM10} = (X)(EF \text{ lb/ton})(1 \text{ ton}/2000 \text{ lb.})$$

Where: E_{PM10} = controlled PM₁₀ emissions (tons) during a month

X = the amount of material throughput (tons) processed by the unit during a month

- ii. The owner or operator shall account for the minor PM₁₀ emissions from Insignificant Activities when totaling the monthly plant-wide emissions. Since the emissions are minor the owner or operator may use the potential PM₁₀ emissions as the monthly emissions. District calculated PM₁₀ potential to emit for the indirect heat exchanger and brazing equipment is 40.00 pounds per month.

- iii. The owner or operator shall monthly perform a visual inspection of the structural and mechanical integrity of each PM control device (C1) for signs of damage, air leakage, corrosion, or other equipment defects, and repair and/or replace defective components as needed. The owner or operator shall maintain monthly records of the results.
- iv. For each PM emission point, the owner or operator shall monthly monitor and maintain the monthly records of the process throughputs during each calendar month.
- v. For Emission Points E1 and E2, the owner or operator shall maintain daily records of any periods of time where the process was operating and the control device (C1) was not operating. The records shall include:
 - 1) Date;
 - 2) Start time and stop time;
 - 3) Identification of the control device and process equipment;
 - 4) PM emissions for each hour during the event in lb/hr using the uncontrolled emission factors in Specific Condition S2.a.i;
 - 5) Summary of the cause or reason for each event;
 - 6) Corrective action taken to minimize the extent or duration of the event; and
 - 7) Measures implemented to prevent reoccurrence of the situation that resulted in the event.

b. Opacity

- i. The owner or operator shall conduct a daily one-minute visible emissions survey, during normal operation, of the emission points. No more than four emission points shall be observed simultaneously. The opacity surveys can be performed on the building exhaust points if the process is inside an enclosure.
- ii. At emission points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9, in accordance with 40 CFR Part 60, Appendix A, within 24 hours of the initial observation.
- iii. The owner or operator shall maintain daily records of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an emission point is not being operated during a given day, then no visible emission survey needs to be performed and a negative declaration shall be entered in the record.

c. **NO_x**

There are no monitoring and record keeping requirements for this pollutant.

S3. **Reporting** (Regulation 2.17, section 5.2)

The owner or operator shall submit annual reports demonstrating compliance with the emission limitations specified in accordance with General Condition 12.

a. **PM/PM₁₀**

The owner or operator shall report the following information regarding PM/PM₁₀ emissions:

- i. The total *plant-wide* calendar month and consecutive 12-month PM₁₀ emissions for each month in the reporting period; and
- ii. The owner or operator shall report the following information regarding each Emission Point, E1 and E2, PM bypass activity in the annual compliance reports:
 - 1) Emission point at which the by-pass occurred;
 - 2) Date and duration (including the start and stop time) during which a bypass occurred;
 - 3) The average PM lb/hr emitted at each emission point during the bypass;
 - 4) Summary information on the cause or reason for the by-pass activity
 - 5) Corrective action taken to minimize the extent and duration of each bypass event;
 - 6) Measures implemented to prevent reoccurrence of the situation that resulted in by-pass emissions; or
 - 7) If no deviations occur during the annual reporting period, the report shall contain a negative declaration.

b. **Opacity**

The owner or operator shall report the following information regarding opacity emissions:

- i. The date, time and results of each visible emissions survey conducted that resulted in visible emissions being observed. If no visible emissions were observed during the reporting period, the owner or operator may submit a negative declaration.

- ii. The date, time and results of each Method 9 test conducted. If there were no Method 9 tests performed during the reporting, the owner or operator may submit a negative declaration.
 - iii. Description of any corrective action taken for each exceedance of the opacity standard.
- c. **NO_x**

There are no compliance reporting requirements for this pollutant.

Insignificant Activities

Equipment	Quantity	PTE	Regulation Basis
Indirect heat exchanger less than 10 MMBtu/hr (7 MMBtu/hr)	1	NO _x = 3.01 tpy; PM ₁₀ = 0.23 tpy	Regulation 1.02, Appendix A, section 1.1
Brazing, soldering or welding equipment	1	PM ₁₀ = 0.01 tpy	Regulation 1.02, Appendix A, section 3.4
Emergency relief vents, stacks and ventilating systems	5	N/A	Regulation 1.02, Appendix A, section 3.10
Diesel or fuel oil storage tanks that are not used for distribution, sale or resale, and that have less than two times the capacity of the vessel in annual turnover of the fluid contained. (1,000 gallon tank)	1	VOC = 0.01 tpy	Regulation 1.02, Appendix A, section 3.25

- 1) Insignificant activities identified in District Regulation 1.02, Appendix A, may be subject to size or production rate disclosure requirements.
- 2) Insignificant activities identified in District Regulation 1.02, Appendix A shall comply with generally applicable requirements.
- 3) The owner or operator shall annually submit an updated list of insignificant activities that occurred during the preceding year, with the compliance certification due April 15th.
- 4) Emissions from Insignificant Activities shall be reported in conjunction with the reporting of annual emissions of the facility as required by the District.
- 5) The owner or operator may elect to monitor actual throughputs for each of the insignificant activities and calculate actual annual emissions, or use Potential to Emit (PTE) as the annual emissions for each piece of equipment.
- 6) The District has determined that no monitoring, record keeping, or reporting requirements apply to the insignificant activities listed, except for the equipment that has an applicable regulation and permitted under an insignificant activity (IA) unit.

IA1 Emission Unit Description: An Indirect Heat Exchanger 7 MMBtu/hr⁶.

IA1 Application Regulations:

Federally Enforceable Regulations		
Regulation	Title	Applicable Sections
7.06	Standard of Performance for New Indirect Heat Exchangers	1, 2, 3, & 4

IA1 Equipment:

Emission Point	Description	Applicable Regulation(s)	Control ID
E7	One (1) natural gas indirect heat exchanger, 7 MMBtu/hr	7.06	N/A

IA1 Control Devices:

There are no control devices associated with Emission Unit IA1.

⁶ Indirect heat exchanger is an affected facility as defined in Regulation 7.06, but meets the definition of insignificant activities per Regulation 1.02, Appendix A, section 1.1.

IA1 Specific Conditions**S1. Standards** (Regulation 2.17, section 5.1)**a. PM**

The owner or operator shall not cause to be discharged into the atmosphere from that Emission Point E7 particulate matter in excess of 0.56 lb/MMBtu actual total heat input⁷. (Regulation 7.06, section 4.1.1)

b. Opacity

The owner or operator shall not cause the emission into the open air of particulate matter from Emission Point E7 which is greater than 20%⁸. (Regulation 7.06, section 4.2)

c. SO₂

The owner or operator shall not cause to be discharged into the atmosphere from Emission Point E7 any gases which contain sulfur dioxide in excess of 1.0 lb/MMBtu actual total heat input for combustion of liquid and gaseous fuels⁷. (Regulation 7.06, section 5.1.1)

S2. Monitoring and Record keeping (Regulation 2.17, sections 5.2)

The owner or operator shall maintain the required records for a minimum of 5 years and make the records readily available to the District upon request.

a. PM

There are no monitoring and record keeping requirements for PM compliance.

b. Opacity

There are no monitoring and record keeping requirements for this pollutant.

c. SO₂

There are no monitoring or record keeping requirements for SO₂ compliance.

⁷ The District has determined, using emission factors from AP-42: Chapters 1.4 Natural Gas Combustion, that the source cannot exceed the PM and SO₂ emission standards uncontrolled. Therefore, there are no monitoring, record keeping, and reporting requirements for E7 with respect to PM and SO₂ emission limits.

⁸ The District has determined that using a natural gas fired boiler will inherently meet the 20% opacity standard. Therefore, the source is not required to perform periodic monitoring to demonstrate compliance with the opacity standard.

S3. **Reporting (Regulation 2.17, section 5.2)**

The owner or operator shall submit annual reports demonstrating compliance with the emission limitations specified in accordance with General Condition 12.

a. **PM**

There are no compliance reporting requirements for this pollutant.

b. **Opacity**

There are no compliance reporting requirements for this pollutant.

c. **SO₂**

There are no compliance reporting requirements for this pollutant.

IA2 Emission Unit Description: A diesel storage tank (1,000 gallon)⁹.

IA2 Application Regulations:

Federally Enforceable Regulations		
Regulation	Title	Applicable Sections
7.12	Standard of Performance for New Storage Vessels for Volatile Organic Compounds	1, 2, 3, 4, 5 and 7

IA2 Equipment:

Emission Point	Description	Applicable Regulation(s)	Control ID
E8	One (1) diesel storage tank (1,000 gallon)	7.12	N/A

IA2 Control Devices:

There are no control devices associated with Emission Unit IA2.

⁹ Diesel storage tank is an affected facility as defined in Regulation 7.12, but meets the definition of insignificant activities per Regulation 1.02, Appendix A, section 3.25.

IA2 Specific Conditions**S1. Standards** (Regulation 2.17, section 5.1)**a. VOC**

The owner or operator shall not store materials with an as stored vapor pressure of greater than or equal to 1.5 psia in the storage vessel, unless the storage tank is equipped with a permanent submerged fill pipe. (Regulation 7.12, section 3.3)

S2. Monitoring and Record keeping (Regulation 2.17, sections 5.2)

The owner or operator shall maintain the required records for a minimum of 5 years and make the records readily available to the District upon request.

a. VOC

i. The owner or operator shall maintain records of the material stored and the vapor pressure in each storage vessel and if the contents of the storage vessel are changed a record shall be made of the new contents, the date of the change, and the new vapor pressure in order to demonstrate compliance with IA2 Specific Condition **Error! Reference source not found..a.**

ii. The owner or operator shall keep a record that shows if the storage vessel is equipped with a submerged fill pipe. Submerged fill pipe means any fill pipe the discharge of which is entirely submerged when the liquid level is 6 inches above the bottom of the tank; or when applied to a tank which is loaded from the side, shall mean every fill pipe the discharge opening of which is entirely submerged when the liquid level is 2 times the fill pipe diameter above the bottom of the tank.

S3. Reporting (Regulation 2.17, section 5.2)

The owner or operator shall submit annual reports demonstrating compliance with the emission limitations specified in accordance with General Condition 12.

a. VOC

There are no compliance reporting requirements for this pollutant.