



**BEST AVAILABLE CONTROL TECHNOLOGY & TOXIC BEST AVAILABLE
CONTROL TECHNOLOGY DETERMINATION**

	DETERMINATION NO.:	<u>117</u>
	DATE:	<u>1/14/2016</u>
	ENGINEER:	<u>Venk Reddy</u>
Category/General Equip Description:	<u>Concrete Batch Plant</u>	
Equipment Specific Description:	<u>Concrete Batch Plant greater than or equal to 5 Cubic yards per batch</u>	
Equipment Size/Rating:	<u>Minor Source BACT</u>	
Previous BACT Det. No.:	<u>48</u>	

This BACT determination will update determination # 48 for concrete batch plants with a throughput greater than or equal to 5 cubic yards per batch

This BACT was determined under the project for A/C 24730 (Syar Concrete LLC).

BACT ANALYSIS

A: ACHIEVED IN PRACTICE (Rule 202, §205.1a)

The following control technologies are currently employed as BACT for concrete batch plants with a throughput greater than or equal to 5 cubic yards per batch

District/ Agency	Best Available Control Technology (BACT)/ Requirements
US EPA	<u>BACT</u> Source: EPA/ RACT/BACT/LEAR Clearinghouse
	Concrete Batch Plants
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 1) Maintain a min 1.5% moisture content, control efficiency of 81.5%. Nellis Air Force Base Concrete Batch Plant 02/26/2008 2) Enclosure, control efficiency of 62%, Aggregate/Cement Mixing 12/11/2006
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u> None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
ARB	<u>BACT</u> Source: ARB BACT Clearinghouse Santa Barbara County APCD
	Concrete Batch Plants
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 Aggregate Storage at min 4% moisture. Vent filters for weigh batcher and storage silos
	PM2.5 No Standard
	CO No Standard
	This BACT determination was found to be the most stringent Achieved in Practice BACT determination published in the ARB clearinghouse. See Attachment A for more information. <u>Rule Requirements</u> None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
SMAQMD	<u>BACT</u>
	From SMAQMD BACT #48 issued on 3/3/11
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 Weigh Batch/Mixer & Loadout vented to baghouse; storage Silo enclosed and vented to a baghouse. Storage piles suppressed with water spray <5% opacity; roads suppressed with water sprays
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u>
	None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
South Coast AQMD	<u>BACT</u>
	From SCAQMD BACT Guidelines for Non Major Polluting Facilities, Page 33
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 Baghouse Venting the cement weigh hopper and mixer truck loading station and adequate aggregate moisture (07-11-97)
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u>
	None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
San Diego County APCD	<u>BACT</u>
	From SDCAPCD NSR Requirements for BACT, Page 3-9
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 1) Enclosed aggregate and cement weigh hoppers, screw conveyors and concrete batcher vented to a 99% efficient fabric filter baghouse. 2) Flexible shroud which seals to the truck. Shroud vented to 99% efficient fabric baghouse 3) Water spray system for sand and aggregate transfer points. Sand and aggregate storage piles adequately wet to maintain a minimum moisture content of 4% by weight 4) Open areas maintained adequately wet to prevent fugitive emissions in excess of 20 percent opacity or Ringlemann 1
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u>
	None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
Bay Area AQMD	<u>BACT</u>
	From BAAQMD BACT Guideline – Greater than or equal to 5 cubic yards per batch
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 Water spray for aggregate handling, aggregate storage piles and site road surfaces; and enclosure and venting of cement handling and storage to a baghouse
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u>
	None

District/ Agency	Best Available Control Technology (BACT)/ Requirements
San Joaquin Valley APCD	<u>BACT</u>
	From SJVAPCD BACT Guidelines – Greater than or equal to 5 cubic yards per batch
	VOC No Standard
	NOx No Standard
	SOx No Standard
	PM10 Fugitive emissions vented to a baghouse and opacity of the uncaptured emissions not to exceed 20% for a period or periods aggregating more than three minutes during any one hour. (10/13/1998)
	PM2.5 No Standard
	CO No Standard
	<u>Rule Requirements</u>
	None

The following control technologies have been identified and are ranked based on stringency:

SUMMARY OF ACHIEVED IN PRACTICE CONTROL TECHNOLOGIES	
VOC	No Standard
NOx	No Standard
SOx	No Standard
PM10	<ol style="list-style-type: none"> 1. Control Strategy As defined by SDCAPCD. 2. Baghouse control on Load out, weigh Batchers/mixer and storage silo, storage piles and roads sprayed with Water <5% opacity - SMAQMD. 3. Aggregate Storage at min 4% moisture. Vent filters for weigh batcher and storage silos - ARB. 4. Fugitive emissions vented to a baghouse and opacity of the uncaptured emissions not to exceed 20% for a period or periods aggregating more than three minutes during any one hour SJVAPCD, BAAQMD, SCAQMD. 5. Enclosure only, Federal Clearinghouse 6. Water spray only, Federal Clearinghouse
PM2.5	No Standard
CO	No Standard

The following control technologies have been identified as the most stringent, achieved in practice control technologies:

BEST CONTROL TECHNOLOGIES ACHIEVED		
Pollutant	Standard	Source
VOC	No Standard	
NOx	No Standard	
SOx	No Standard	
PM10	1) Enclosed aggregate and cement weigh hoppers, screw conveyors and concrete batcher vented to a 99% efficient fabric filter baghouse. 2) Flexible shroud which seals to the truck .Shroud vented to 99% efficient fabric baghouse 3) Water spray system for sand and aggregate transfer points. Sand and aggregate storage piles adequately wet to maintain a minimum moisture content of 4% by weight 4) Open areas maintained adequately wet to prevent fugitive emissions in excess of <5 percent opacity	SDCAPCD/SMAQMD (BACT)
PM2.5	No Standard	
CO	No Standard	

B. TECHNOLOGICALLY FEASIBLE AND COST EFFECTIVE (Rule 202, §205.1.b.):

Technologically Feasible Alternatives:

Any alternative basic equipment, fuel, process, emission control device or technique, singly or in combination, determined to be technologically feasible by the Air Pollution Control Officer. As fabric filters are generally considered to achieve the highest level of particulate control for processes that they may be applied to, and since the achieved in practice BACT determination has been determined to be the use of a 99% efficient fabric filter, no additional technologies were analyzed as technologically feasible.

C. SELECTION OF BACT:

Based on the fact that no other technologically feasible control technologies were identified as being more appropriate with a higher level of control efficiency than a fabric filter for particulate control for this application, BACT for PM10 will be the highest level of control that has been achieved in practice that used this technology. As PM2.5 is a subset of PM10, BACT for PM2.5 will be set to the same standard as is set for PM10.

BACT For Concrete Batch Plants Greater than or equal to 5 cubic yard per batch.		
Pollutant	Standard	Source
VOC	No Standard	
NOx	No Standard	
SOx	No Standard	
PM10	1) Enclosed aggregate and cement weigh hoppers, screw conveyors and concrete batcher vented to a 99% efficient fabric filter baghouse, and 2) Flexible shroud which seals to the truck .Shroud vented to 99% efficient fabric baghouse, and 3) Water spray system for sand and aggregate transfer points. Sand and aggregate storage piles adequately wet to maintain a minimum moisture content of 4% by weight, and 4) Open areas maintained adequately wet to prevent fugitive emissions in excess of <5 percent opacity	SDCAPCD/SMAQMD
PM2.5 (A)	Equivalent to PM10 control standards	SDCAPCD/SMAQMD
CO	No Standard	

(A) The control of PM 2.5 is considered equivalent to the control of PM 10.

D. SELECTION OF T-BACT:

Toxics are in the form of PM matter. The control of particulate matter through meeting the BACT standard will also control toxics found in the PM. Therefore meeting the BACT controls for the control of PM will be considered equivalent to meeting T-BACT requirements.

REVIEWED BY: _____

DATE: _____

APPROVED BY:  _____

DATE: 1-14-16

Appendix A - Statewide BACT Determination

[Back](#)**Best Available Control Technology (BACT) Guideline 6.2.3 A****Emissions Unit:** Dry mix concrete/cement bagging machine**Equipment Rating:** 1,292 tons/day**Facility:** Basalite Block**References:** ATC #: N-1051-15-1 & N-1051-16-1 Project #: 970640**Location:** Tracy**Date of Determination:** 10/13/1998**Pollutant****BACT**

CO BACT NOT TRIGGERED

NOx BACT NOT TRIGGERED

PM10 Fugitive emissions vented to a baghouse and opacity of the uncaptured emissions not to exceed 20% for a period or periods aggregating more than three minutes during any one hour.

SOx BACT NOT TRIGGERED

VOC BACT NOT TRIGGERED

BACT Status**Comment**

Small Emitter

Technologically Feasible BACT

from
SJAPCD

VENK REDDY

From: Annicchiarico, John <John.Annicchiarico@sdcounty.ca.gov>
Sent: Monday, December 14, 2015 11:58 AM
To: VENK REDDY
Cc: BRIAN KREBS
Subject: RE: Concrete bath plant BACT question

Venk,

I'm sorry I haven't replied sooner as we have some feedback for you. Yes, wet cement is not a good idea for filters. The guidance, as stated on our website is not up to date. We require 100% capture and venting through a baghouse. We do not require both water spray and 100% capture. Our BACT trigger level is 10 # per day and if BACT is not triggered we could allow for less than 100 percent capture with water spray for fugitive dust control.

Hope this helps.

Best regards,

John Annicchiarico
Senior Air Pollution Control Engineer
San Diego Air Pollution Control District
(858) 586-2733

From: VENK REDDY [mailto:VReddy@airquality.org]
Sent: Monday, December 14, 2015 11:51 AM
To: Annicchiarico, John
Cc: BRIAN KREBS
Subject: RE: Concrete bath plant BACT question

Hi John, By any chance do you get any feedback on the concrete Batch Plant BACT from your staff?

Thanks
Venk

From: VENK REDDY
Sent: Tuesday, December 08, 2015 2:45 PM
To: John.Annicchiarico@sdcounty.ca.gov
Cc: BRIAN KREBS
Subject: Concrete bath plant BACT question

Hi John thanks for taking my call this afternoon.

On page 3-9 Fee Schedule 08A under Concrete Batch Plants of the San Diego BACT manual, I have a question regarding the BACT determination of the Flexible shroud.

San Diego's BACT determination for the shroud is as follows

Flexible shroud which seals to the truck along with a water sprinkler system used when dry products are mixed.

Shroud vented to a 99% efficient fabric filter baghouse.

An applicant with a concrete batch plant operation has a shroud that is vented to a baghouse, but it does not have a water sprinkler system. I was wondering if the shroud is vented to a baghouse, is the water sprinkler system required?

I would think it may not be a good idea to get wet concrete sucked up into the baghouse. Any insight on the water sprinkler system would be appreciated.

Thanks

Venk
Permit Engineer
SMAQMD 916-874-4861

From SDAQMD

CONCRETE BATCH PLANTS

Fee Schedule 08A

Review the BACT Control Option listed below. The applicant must propose the Control Option listed or perform a Top-down BACT Analysis as described in Section 4 to justify the selection of another Control Option. The applicant will be required to provide documentation that the Control Option selected meets the requirements listed in the table.

	VOC	NO _x	SO _x	PM*
BACT Emission Rate Limit	(N/A)	(N/A)	(N/A)	<0.008 grain/dscf
BACT Control Option	(N/A)	(N/A)	(N/A)	<p>99% efficient Fabric or Cartridge type vent filters on silos.</p> <p>Enclosed aggregate and cement weigh hoppers, screw conveyors and concrete batcher vented to a 99% efficient fabric filter baghouse.</p> <p>Flexible shroud which seals to the truck along with a water sprinkler system used when dry products are mixed. Shroud vented to 99% efficient fabric filter baghouse</p> <p>Water spray system for sand and aggregate transfer points.</p> <p>Sand and aggregate storage piles adequately wet to maintain a minimum moisture content of 4% by weight.</p> <p>Open areas maintained adequately wet to prevent fugitive emissions in excess of 20 percent opacity or Ringlemann 1.</p> <p>(A/P)</p>

The applicant may choose to limit the Potential to Emit (PTE) from the equipment to less than 10 pounds per day for each pollutant in lieu of meeting the stated BACT requirement.

* The BACT emission rate limit is based on TSP which is used as a surrogate for PM10.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
Best Available Control Technology (BACT) Guidelines for Non-Major Polluting Facilities*

10-20-2000 Rev. 0

Equipment or Process: Concrete Batch Plant

Rating/Size	Criteria Pollutants				
	VOC	NOx	SOx	CO	PM ₁₀
Central Mixed, < 5 Cubic Yards/Batch					Water Spray (1988)
Central Mixed, ≥ 5 Cubic Yards/Batch					Baghouse for Cement Handling and Adequate Moisture in Aggregate (1988)
Transit-Mixed					Baghouse Venting the Cement Weigh Hopper and the Mixer Truck Loading Station; and Adequate Aggregate Moisture (07-11-97)
					Inorganic

* Means those facilities that are not major polluting facilities as defined by Rule 1302 - Definitions

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Best Available Control Technology (BACT) Guideline

Source Category

Source:	Concrete Batch Plants	Revision:	1
Class:	≥ 5 Cubic yards per batch	Document #:	49.2
		Date:	09/04/91

Determination

POLLUTANT	BACT 1. Technologically Feasible/ Cost Effective 2. Achieved in Practice	TYPICAL TECHNOLOGY
POC	1. n/a 2. n/a	1. n/a 2. n/a
NO _x	1. n/a 2. n/a	1. n/a 2. n/a
SO ₂	1. n/a 2. n/a	1. n/a 2. n/a
CO	1. n/a 2. n/a	1. n/a 2. n/a
PM ₁₀	1. Water spray w/ chemical suppressants for aggregate handling and storage piles; and Paving of site road surfaces; and Enclosure and venting of cement handling and storage to baghouse w/ ≤0.0013 gr/dscf ^{a,b} 2. Water spray for aggregate handling, aggregate storage piles, and site road surfaces; and Enclosure and venting of cement handling and storage to baghouse w/ ≤0.01 gr/dscf ^a	1. BAAQMD Approved Design and Operation ^a 2. BAAQMD Approved Design and Operation ^a
NPOC	1. n/a 2. n/a	1. n/a 2. n/a

References

- a. BAAQMD
b. BAAQMD A #4770

SMAQMD BACT CLEARINGHOUSE

CATEGORY:

CONCRETE PLANT

BACT Size: Minor Source BACT

CONCRETE BATCH PLANT

BACT Determination Number:	48	BACT Determination Date:	3/31/2011
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CONCRETE BATCH PLANT
Unit Size/Rating/Capacity:
Equipment Location:

BACT Determination Information

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	A. Weigh Batcher/Mixer & Loadout vented to baghouse; B. Storage silos enclosed and vented to baghouse; C. Storage piles suppressed with water sprays < 5% opacity, D. Roads suppressed with water sprays
	Basis:	Cost Effective
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT determination from Policy Manual dated March 31, 2011.

District Contact: Jeff Weiss Phone No.: (916) 874 - 4862 email: jweiss@airquality.org



California Environmental Protection Agency
Air Resources Board

BACT Determination Detail

Category

Source Category:	Concrete Batch Plant: \geq 5 cubic yard per batch
SIC Code	3273
NAICS Code	327320

Emission Unit Information

Manufacturer:	Stephens
Type:	Stationary Use
Model:	Eagle
Equipment Description:	Ready-Mix Concrete Batch Plant (w/ special double shroud design)
Capacity / Dimentions	1500 yd3/day
Fuel Type	
Multiple Fuel Types	

Operating Schedule (hours/day)/(days/week)/ (weeks/year)e	Continuous (10/5/52)
Function of Equipment	Produce ready-mix concrete for construction
PM Limit	0.003
PM Limit Units	gr/dscf
PM Average Time	
PM Control Method	Add-on
PM Control Method Desc	Baghouse and Vent Filters (3x)
PM Percent Control Efficiency	
PM Cost Effectiveness (%/ton)	
PM Incremental Cost Effectiveness (%/ton)	
PM Cost Verified (Y/N)	
PM Dollar Year	
PM10 Limit	0.003
PM10 Limit Units	gr/dscf
PM10 Average Time	
PM10 Control Method	Add-on
PM10 Control Method Desc	Baghouse and Vent Filters (3x)

PM10 Percent Control
Efficiency

PM10 Cost Effectiveness
(%/ton)

PM10 Incremental Cost
Effectiveness (%/ton)

PM10 Cost Verified (Y/N)

PM10 Dollar Year

Project / Permit Information

Application/Permit No.: ATC 11884

Application Completeness
Date:

New
Construction/Modification: New Construction

ATC Date: 09-29-2006

PTO Date:

Startup Date:

Technology Status: BACT Determination

Source Test Available: No

Source Test Results:

Facility / District Information

Facility Name: Mission Ready Mix - Goleta

Facility Zip Code: 93117

Facility County: Santa Barbara

District Name: Santa Barbara County APCD

District Contact: Mike Goldman

Contact Phone No.: (805) 961-8821

Contact E-Mail: mfg@sbcapcd.org

Notes

Notes: Special double-shroud design fabricated for this project to reduce emissions from the truck loading operation. Call to get copy of permit for details. Water Spray Bars for: storage bunkers/piles, aggregate receiving hopper, radial belt conveyor, elevated aggregate storage bins (min 4% moisture). Batch Vent filter for the weigh batcher. Cartridge Vent filter for the cement silo. Cartridge Vent filter for the fly ash silo.

Report Error In Determination



California Environmental Protection Agency
Air Resources Board

BACT Determination Detail

Category

Source Category:	Concrete Batch Plant: \geq 5 cubic yard per batch
SIC Code	3723
NAICS Code	327320

Emission Unit Information

Manufacturer:	Device 1-C&W Manufacturing, Device 2-Griffin Environmental
Type:	Dust Collectors
Model:	RA-140 & JA-160-SA
Equipment Description:	Concrete Batch Plant
Capacity / Dimentions	72 bags and 160 bags respectively
Fuel Type	None-applicable
Multiple Fuel Types	
	Variable (/ /)

Operating Schedule
(hours/day)/(days/week)/
(weeks/year)e

Function of Equipment

Control of PM

PM10 Limit

0.025

PM10 Limit Units

lb/cuyd

PM10 Average Time

PM10 Control Method

Add-on

PM10 Control Method Desc

**enclosed & vented to dust collector, storage limited to 5%
VE**

PM10 Percent Control
Efficiency

PM10 Cost Effectiveness
(%/ton)

PM10 Incremental Cost
Effectiveness (%/ton)

PM10 Cost Verified (Y/N)

PM10 Dollar Year

Project / Permit Information

Application/Permit No.:

17625

Application Completeness

Date:

New
Construction/Modification:

Modification

ATC Date:

PTO Date:

Startup Date:

Technology Status:

BACT Determination

Source Test Available:

Yes

Source Test Results:

Facility / District Information

Facility Name:

Kiewit Pacific Co

Facility Zip Code:

Facility County:

Sacramento

District Name:

Sacramento Metropolitan AQMD

District Contact:

Allan Daly

Contact Phone No.:

916-874-4800

Contact E-Mail:

adaly@airquality.org

Notes

Notes:

Report Error In Determination



BACT Determination Detail

Category

Source Category: Concrete Batch Plant: \geq 5 cubic yard per batch

SIC Code 3273

NAICS Code 32739

Emission Unit Information

Manufacturer:

Type:

Model:

Equipment Description:

Capacity / Dimentions 87,450 tons/mon

Fuel Type Natural Gas

Multiple Fuel Types

Continuous (12/6/52)

Operating Schedule
(hours/day)/(days/week)/
(weeks/year)e

Function of Equipment

Produces transit mixed concrete

Project / Permit Information

Application/Permit No.: 406717

Application Completeness
Date:

New Construction/Modification: Modification

ATC Date: 10-17-2002

PTO Date: 10-17-2002

Startup Date: 09-01-2002

Technology Status: BACT Determination

Source Test Available: No

Source Test Results:

Facility / District Information

Facility Name: Cemex Construction Materials

Facility Zip Code: 91761

Facility County: Los Angeles

District Name: South Coast AQMD

District Contact: Martin Kay

Contact Phone No.: 909-396-3115

Contact E-Mail: mkay@aqmd.gov

Notes

Notes: Venting of batch plant equipment and cement and flyash storage silos to baghouses or filter vent and maintaining sufficient moisture in aggregate at transfer points to control particulate emissions

Report Error In Determination

http://cfpub.epa.gov/rblc/index.cfm?

action=PermitDetail.PollutantInfo&Facility_ID=26873&Process_ID=106717&Pollutant_ID=171&Per_Control_Equipment_Id=147058 Last updated on 10/1/2015



Technology Transfer Network

[Clean Air Technology Transfer Network](#) | [EPA Home](#) | [New Search](#) | [Search Results](#) | [Facility Information](#) | [Process List](#) | [Process Information](#) | [Pollutant Information](#)

Pollutant Information

Click on the Process Information button to see more information about the process associated with this pollutant.
Or click on the Process List button to return to the list of processes.

[RBLC Home](#) | [New Search](#) | [Search Results](#) | [Facility Information](#) | [Process List](#) | [Process Information](#) | [Pollutant Information](#)

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FINAL

RBLC ID: NV-0047

Corporate/Company: 99 CIVIL ENGINEER SQUADRON OF USAF

Facility Name: NELLIS AIR FORCE BASE

Process: CONCRETE BATCH PLANT

Pollutant: Particulate matter,
filterable < 10 µ (FPM10)

CAS Number: PM

Pollutant Group(s): Particulate Matter (PM),

Substance Registry System: Particulate matter, filterable <
10 µ (FPM10)

Pollution Prevention/Add-on Control Equipment/Both/No Controls Feasible: P

P2/Add-on Description: MAINTAINING A MINIMUM OF 1.5% MOISTURE CONTENT IN MATERIALS LESS
THAN 0.25 INCHES IN DIAMETER FOR THE ENTIRE PROCESS

Test Method:

Unspecified

[EPA/DOAR Methods](#)[All Other Methods](#)

Percent Efficiency: 81.500

Compliance Verified: No

EMISSION LIMITS:

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: SIP , OPERATING PERMIT
Other Factors Influence Decision: No
Emission Limit 1: 0.0514 LB/T PRODUCTION
Emission Limit 2: 10.2900 LB/H
Standard Emission Limit: 0.0514 LB/T PRODUCTION

COST DATA:

Cost Verified? No
Dollar Year Used in Cost Estimates:
Cost Effectiveness: 0 \$/ton
Incremental Cost Effectiveness: 0 \$/ton
Pollutant Notes:

http://cfpub.epa.gov/rblc/index.cfm?

action=PermitDetail.PollutantInfo&Facility_ID=26652&Process_ID=106068&Pollutant_ID=171&Per_Control_Equipment_Id=145095

Last updated on 10/1/2015



Technology Transfer Network

Clean Air Technology Center RACT/BACT/LAER Clearinghouse RBLC Basic Search RBLC Search Results Pollutant Information

Pollutant Information

Click on the Process Information button to see more information about the process associated with this pollutant.

Or click on the Process List button to return to the list of processes.

RBLC Home

New Search

Search Results

Facility Information

Process List

Process Information

Pollutant Information

Help

FINAL

RBLC ID: NV-0045

Corporate/Company: AGGREGATE INDUSTRIES

Facility Name: SLOAN QUARRY

Process: AGGREGATE/CEMENT MIXING

Pollutant: Particulate matter,
filterable < 10 μ (FPM10)

CAS Number: PM

Pollutant Group(s): Particulate Matter (PM),

Substance Registry System: Particulate matter, filterable <
10 μ (FPM10)

Pollution Prevention/Add-on Control Equipment/Both/No Controls Feasible: P

P2/Add-on Description: ENCLOSURE

Test Method:

Unspecified

EPA/OAR Methods

All Other Methods

Percent Efficiency:

62.000

Compliance Verified:

Yes

EMISSION LIMITS:

Case-by-Case Basis:

LAER

Other Applicable Requirements:

Other Factors Influence Decision:

Emission Limit 1:

0.0038 LB/T

Emission Limit 2:

0.3800 LB/H

Standard Emission Limit:

0.0038 LB/T

COST DATA:

Cost Verified?

No

Dollar Year Used in Cost Estimates:

Cost Effectiveness:

0 \$/ton

Incremental Cost Effectiveness:

0 \$/ton

Pollutant Notes:

THE ANNUAL EMISSION LIMIT FOR THIS UNIT IS 0.29 TONS
PER YEAR.

http://cfpub.epa.gov/rblc/index.cfm?

action=PermitDetail.PollutantInfo&Facility_ID=26873&Process_ID=106717&Pollutant_ID=171&Per_Control_Equipment_Id=147058
Last updated on 10/2/2015

Technology Transfer Network

[Clean Air Act Technology Transfer Network](#) | [RACT/BACT/LAER Clearinghouse](#) | [Pollutant Information](#) | [Facility Information](#) | [Process List](#) | [Process Information](#) | [Pollutant Information](#)

Pollutant Information

Click on the Process Information button to see more information about the process associated with this pollutant.

Or click on the Process List button to return to the list of processes.

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FINAL

RBLC ID: NV-0047

Corporate/Company: 99 CIVIL ENGINEER SQUADRON OF USAF

Facility Name: NELLIS AIR FORCE BASE

Process: CONCRETE BATCH PLANT

Pollutant: Particulate matter,
filterable < 10 μ (FPM10)

CAS Number: PM

Pollutant Group(s): Particulate Matter (PM),

Substance Registry System: Particulate matter, filterable <
10 μ (FPM10)

Pollution Prevention/Add-on Control Equipment/Both/No Controls Feasible: P

P2/Add-on Description: MAINTAINING A MINIMUM OF 1.5% MOISTURE CONTENT IN MATERIALS LESS
THAN 0.25 INCHES IN DIAMETER FOR THE ENTIRE PROCESS

Test Method: Unspecified

[EPA/DOAR Methods](#)
[All Other Methods](#)

Percent Efficiency: 81.500

Compliance Verified: No

EMISSION LIMITS:

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: SIP , OPERATING PERMIT
Other Factors Influence Decision: No
Emission Limit 1: 0.0514 LB/T PRODUCTION
Emission Limit 2: 10.2900 LB/H
Standard Emission Limit: 0.0514 LB/T PRODUCTION

COST DATA:

Cost Verified? No
Dollar Year Used in Cost Estimates:
Cost Effectiveness: 0 \$/ton
Incremental Cost Effectiveness: 0 \$/ton
Pollutant Notes:



http://cfpub.epa.gov/rblc/index.cfm?action=PermitDetail.ProcessInfo&facility_id=26873&PROCESS_ID=106717
Last updated on 10/2/2015

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Process Information - Details

For information about the pollutants related to this process, click on the specific pollutant in the list below.

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FINAL

RBLC ID: NV-0047

Corporate/Company: 99 CIVIL ENGINEER SQUADRON OF USAF

Facility Name: NELLIS AIR FORCE BASE

Process: CONCRETE BATCH PLANT

Primary Fuel: N/A

Throughput:

Process Code: 90.012

Pollutant Information - List of Pollutants

[Help](#)

Pollutant	Primary Emission Limit	Basis	Verified
<u>Particulate matter, filterable < 10 µ (FPM10)</u>	0.0514 LB/T PRODUCTION	Other Case-by-Case	NO

Process Notes: THE PROCESS CONSISTS OF THIRTEEN (13) EMISSION UNITS INCLUDING ONE DIESEL GENERATOR. THE CONCRETE BATCH PLANT (UNIT A015) IS SELECTED TO SHOW THE BACT DETERMINATIONS. PRODUCTION FOR THE PLANT IS LIMITED TO 200 TONS/HR AND 15,000 TONS/YR.



http://cfpub.epa.gov/rblc/index.cfm?action=PermitDetail.ProcessInfo&facility_id=26652&PROCESS_ID=106068
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Process Information - Details

For information about the pollutants related to this process, click on the specific pollutant in the list below.

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FINAL

RBLC ID: NV-0045

Corporate/Company: AGGREGATE INDUSTRIES

Facility Name: SLOAN QUARRY

Process: AGGREGATE/CEMENT MIXING

Primary Fuel: N/A
Throughput: 100.00 T/H
Process Code: 90.012

Pollutant Information - List of Pollutants

[Help](#)

Pollutant	Primary Emission Limit	Basis Verified
Particulate matter, filterable < 10 μ (FPM10)	0.0038 LB/T	LAER YES

Process Notes: THE EMISSION UNIT (AP12) IS THE MIXER OPERATED BY AGGREGATE/CEMENT PRODUCTS. THE ANNUAL PROCESS CAPACITY IS LIMITED TO 150,000 TONS PER YEAR.

http://cfpub.epa.gov/rblc/index.cfm?

action=PermitDetail.PollutantInfo&Facility_ID=26652&Process_ID=106068&Pollutant_ID=171&Per_Control_Equipment_Id=146095 Last updated on 10/2/2015



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Pollutant Information

Click on the Process Information button to see more information about the process associated with this pollutant.

Or click on the Process List button to return to the list of processes.

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FINAL

RBLC ID: NV-0045

Corporate/Company: AGGREGATE INDUSTRIES

Facility Name: SLOAN QUARRY

Process: AGGREGATE/CEMENT MIXING

Pollutant: Particulate matter,
filterable < 10 μ (FPM10)

CAS Number: PM

Pollutant Group(s): Particulate Matter (PM),

Substance Registry System: Particulate matter, filterable <
10 μ (FPM10)

Pollution Prevention/Add-on Control Equipment/Both/No Controls Feasible: P

P2/Add-on Description: ENCLOSURE

Test Method:	Unspecified	EPA/DAR Methods	All Other Methods
Percent Efficiency:	62.000		
Compliance Verified:	Yes		
EMISSION LIMITS:			
Case-by-Case Basis:	LAER		
Other Applicable Requirements:			
Other Factors Influence Decision:			
Emission Limit 1:	0.0038 LB/T		
Emission Limit 2:	0.3800 LB/H		
Standard Emission Limit:	0.0038 LB/T		
COST DATA:			
Cost Verified?	No		
Dollar Year Used in Cost Estimates:			
Cost Effectiveness:	0 \$/ton		
Incremental Cost Effectiveness:	0 \$/ton		
Pollutant Notes:	THE ANNUAL EMISSION LIMIT FOR THIS UNIT IS 0.29 TONS PER YEAR.		