



Section I – South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **584656**
 Equipment Category: **Dryer – Aggregate Facility**
 Equipment Subcategory: **Rotary Dryer, Natural Gas Fired**
 Date: **September 2, 2022**

1. EQUIPMENT INFORMATION

A. MANUFACTURER: Gencor	B. MODEL: N/A	
C. DESCRIPTION: Rotary Dryer, Drum/Mixer, with a Gencor Equinox Natural Gas Fired Burner		
D. FUNCTION: The facility is in the business of producing asphaltic concrete. The raw aggregate, recycled asphalt product and recycled asphalt shingles are fed into a rotary dryer from an on-site cold feed system. The material is heated to temperature under specification to remove moisture. Asphalt oil is fed directly into the dryer and mixed with raw aggregate. The asphaltic concrete is discharged into an incline slat conveyor which feeds silo loading batches via a series of drag slat conveyors. The exhaust from the dryer and conveyor is vented to a hot baghouse.		
E. SIZE/DIMENSIONS/CAPACITY: 135 MMBtu/hr		
COMBUSTION SOURCES		
F. MAXIMUM HEAT INPUT: 135 MMBTU/hr		
G. BURNER INFORMATION:		
TYPE	INDIVIDUAL HEAT INPUT	NUMBER
Low NOx Burner	135 MMBtu/hr	one
H. PRIMARY FUEL: Natural Gas	I. OTHER FUEL: N/A	
J. OPERATING SCHEDULE: Hours 24 HRS//DAY 7 DAYS/WEEK 52 WKS/YR		
K. EQUIPMENT COST: N/A		
L. EQUIPMENT INFORMATION COMMENTS: Two combustion air blowers, 155 HP total.		

2. COMPANY INFORMATION

A. COMPANY: Granite Construction Co.	B. FAC ID: 178534
C. ADDRESS: 35100 Dillon Rd. CITY: Indio STATE: CA ZIP: 92203	D. NAICS CODE: 324121
E. CONTACT PERSON: Jayne Powell	F. TITLE: Environmental Manager
G. PHONE NO.: 760-775-7500	H. EMAIL: Jayne.Powell@gcinc.com

3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: NEW CONSTRUCTION
C. SCAQMD ENGINEER: Marilyn Potter	
D. PERMIT INFORMATION:	PC ISSUANCE DATE: 5/5/2016
P/O NO.: G44681	PO ISSUANCE DATE: 1/30/2017
E. START-UP DATE: 2017	
F. OPERATIONAL TIME: 5 years	

4. EMISSION INFORMATION

A. BACT EMISSION LIMITS AND AVERAGING TIMES: List all criteria contaminant or precursor emission limits, including facility limits, on the permit(s) that affects the equipment. Include units, averaging times and corrections (%O ₂ , %CO ₂ , dry, etc). For VOC, values must include if the concentration is reported as methane, hexane or any other compound. VOC mass emissions should include the molecular weight-to-carbon ratio, if applicable.						
	VOC	NOX	SOX	CO	PM OR PM ₁₀	INORGANIC
BACT Limit		33 PPMV				
Averaging Time		-				
Correction		3 % O ₂				
B. OTHER BACT REQUIREMENTS: N/A						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: The manufacturer provided an emission guarantee for 33 ppm. The source test showed an average of 29 ppm @ 3% O ₂ , demonstrating compliance with Rule 1147.						

5. CONTROL TECHNOLOGY

A. MANUFACTURER: -		B. MODEL: -	
C. DESCRIPTION: Low NOx burner			
D. SIZE/DIMENSIONS/CAPACITY: 135 MMBTU/hr			
E. CONTROL EQUIPMENT PERMIT INFORMATION: See Section 3			
APPLICATION NO.:		PC ISSUANCE DATE: Click here to enter a date.	
PO NO.:		PO ISSUANCE DATE: Click here to enter a date.	
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NOx	___%	___%	___%
SOx	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM ₁₀	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: N/A			

6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source test						
B. DATE(S) OF SOURCE TEST: September 7, 2016						
C. COLLECTION EFFICIENCY METHOD: N/A						
D. COLLECTION EFFICIENCY PARAMETERS: N/A						
E. SOURCE TEST/PERFORMANCE DATA:						
Parameter	Units	Run #1	Run #2	Run #3	Limit	Rule/Regulation
NOx	ppm @ 3% O ₂	27.7	29.6	29.8	33	Condition 4
	lb/MMBtu	0.034	0.036	0.037		
CO	ppm @ 3% O ₂	763	815	398	2000	
	lb/MMBtu	0.572	0.611	0.299		
O ₂	%	13.5	13.8	12.9		
F. TEST OPERATING PARAMETERS AND CONDITIONS: N/A						
G. TEST METHODS (SPECIFY AGENCY): SCAQMD Method 100.1 for NOx, CO, O ₂ and CO ₂ .						
I. MONITORING AND TESTING REQUIREMENTS: Permit to Construct - Condition (12): The owner or operator of this equipment shall conduct an initial source test.						
I. DEMONSTRATION OF COMPLIANCE COMMENTS: Rotary Dryer has shown compliance with SCAQMD Rule 1147 through the source test.						

7. ADDITIONAL SCAQMD REFERENCE DATA

A. BCAT: 000293	B. CCAT: .	C. APPLICATION TYPE CODE: 10	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): PR 16172A	
G. SCAQMD SOURCE SPECIFIC RULES: Rule 1147			
H. HEALTH RISK FOR PERMIT UNIT			
H1. MICR: Click here to enter text.	H2. MICR DATE: Click here to enter a date.	H3. CANCER BURDEN: Click here to enter text.	H4. CB DATE: Click here to enter a date.
H5: HIA: Click here to enter text.	H6. HIA DATE: Click here to enter a date.	H7. HIC: Click here to enter text.	H8. HIC DATE: Click here to enter a date.