

AUTHORIZATION TO OPERATE (ATO): #1107
UNDER PDEQ CLASS II GENERAL AIR QUALITY PERMIT 6210
For
Nonmetallic Material Handling Facilities
(Crushing & Screening, Hot Mix Asphalt and Concrete Batch Plants)



I. FACILITY INFORMATION:

Business Name: Sierra Mining & Crushing LLC.
 Facility Name: Sierra Mining & Crushing LLC.
 Source Location: 8665 S Alvernon Way, Tucson, AZ 85706

Permitted Emissions, tons/year:

Conventional or Criteria Air Pollutant					HAP(s) Totals	
PM ₁₀	NO _x	VOC	CO	SO ₂	Single HAP	Combined HAPS
<90	<90	<90	<90	<90	<10	<25

Rolling 12-Month Throughput Limitations:

Crushing & Screening Plant: 804,180 TPY (4124 Hours Per Year)
 Tub Grinder: 329,920 TPY (4124 Hours Per Year)

(These throughput limitations are calculated from the general permit application and the annual hour limitation identified in the facility's PTE)

Rupesh Patel, Air Permit Manager, PDEQ

ATO #1107	
Issue Date:	June 5, 2017
Revised:	N/A
Expiration Date:	April 23, 2022

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II. AUTHORIZED EQUIPMENT:

Equipment, operations, and activities for which emissions are allowed by the general permit are as follows:

Table 1: Section 3 of the Permit – NSPS for Nonmetallic Mineral Processing Plants Affected Facilities:

Source Equipment ID ¹	Type of Equipment	Manufacturer	Model	Serial Number	Maximum Rated Capacity	Manufacturer Date	≥ 4/22/2008	Opacity Limit %
1107-02	Cone Crusher	El Jay	1140	42E0480	195 TPH	1984	No	15

¹ Specific equipment identified in the permit application as needing an ATO. All equipment listed in the permit application is subject to the provisions of this general permit.

Attachment D – NSPS for CI ICE (Non-Emergency Designated Engines):

Equip. No.	Description/ Location	MFR/ Model	Serial Number/ Unique ID	Maximum Rated Capacity	Date of MFR	Date Installed	Run Hour Limitation ¹	Allowable Fuels
1107-26	Cone Crusher Generator	Generac/300 KR	142095	335	2009	2016	4124	Diesel

¹ Permittee's must install non-resettable hour meters when choosing to monitor run hours, otherwise the Permittee shall monitor and keep records of the metered fuel purchased and fired in the unit.

Attachment D– Supplemental Requirements:

Equip. No.	Applicable NSPS Emission Standard	NO _x g/kw-hr (g/hp-hr)	NMHC g/kw-hr (g/hp-hr)	NMHC+NO _x g/kw-hr (g/hp-hr)	CO g/kw-hr (g/hp-hr)	PM g/kw-hr (g/hp-hr)	Certified Emission Life (term, date)
1107-26	Non-Emergency Engine 302 ≤ HP < 602	-	-	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)	8,000 hours or 10 years, whichever comes first

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Attachment F – NESHAP for CI & SI RICE (Non-Emergency Designated Engines):

Equip. No.	Description/ Location	MFR/ Model	Serial Number/ Unique ID	Maximum Rated Capacity	Date of MFR	Date Installed	Run Hour Limitation ¹	Allowable Fuels
1107-12	Generator for Wash Plant	Caterpillar	85Z11703	314	Pre-2006	Unknown	4124	Diesel
1107-15	Water Pump Engine	Detroit/RC	4A124063	150	Unknown	Unknown	4124	Diesel

¹. Permittee's must install non-resettable hour meters when choosing to monitor run hours, otherwise the Permittee shall monitor and keep records of the metered fuel purchased and fired in the unit.

Attachment F – Supplemental Requirements for Non-Emergency CI Engines >300 HP ≤500 HP

Equip. No.	Testing Requirement	CO Emission Limitations		Required Equipment	Semiannual Compliance Report		Additional Permit Conditions
		At 15% O ₂ ppmv	Or % Reduction		January 1 – June 30	July 1 – December 31	
1107-12	Initial Performance Test	49	70	Crankcase Ventilation System	Postmarked or delivered no later than July 31	Postmarked or delivered no later than January 31	Attachment F Supplement Conditions 10 through 23 (Attached to ATO)

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