

STATEMENT OF BASIS

For the issuance of Air Permit # 0045-AOP-R6 AFIN: 32-00014

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Arkansas Lime Company
600 Limesdale Road
Batesville, Arkansas 72503

3. PERMIT WRITER:

Joseph Hurt

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Lime Manufacturing
NAICS Code: 327410

5. SUBMITTALS:

Date of Application	Type of Application (New, Renewal, Modification, Deminimis/Minor Mod, or Administrative Amendment)	Short Description of Any Changes That Would Be Considered New or Modified Emissions
12/22/2014	Minor Mod	Installation of a new trommel screen and associated equipment.

6. REVIEWER'S NOTES:

Arkansas Lime Company owns and operates a limestone quarry and lime manufacturing plant near Batesville, in Independence County, Arkansas. The facility is adding a portable generator (SN-45Q) to provide power for the new trommel screen operations (SN-46Q). The permitted emission increases include 6.7 tpy PM, 2.7 tpy PM₁₀, 0.1 tpy SO₂, 12.0 tpy VOC, 10.5 tpy CO, 12.0 tpy NO_x, and 4.92E-02 tpy Total HAPs.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

There were no areas of concern noted with the last inspection, which was performed on March 20, 2014.

8. PSD APPLICABILITY:

a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N

b) Is the facility categorized as a major source for PSD? Y

- *Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list*

If yes, explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
01Q, 02Q, 03Q, 07Q, 09Q, 10Q, 27Q, 31Q, 35Q, 36Q, 46Q, 01P, 19P, 30P, 33P, 34P, and 36P	PM and PM ₁₀	40 CFR 60, Subpart OOO New Source Performance Standards for Non Metallic Mineral Processing Plants
11Q, 24Q, and 30Q	PM and PM ₁₀	40 CFR 60, Subpart HH New Source Performance Standards for Lime Manufacturing Plants
21Q, 28Q, and Coal systems	PM and PM ₁₀	40 CFR 60, Subpart Y New Source Performance Standards for Coal Preparation Plants
07Q, 11Q, 24Q, 27Q, 30Q, and 35Q	PM and PM ₁₀	40 CFR 63, Subpart AAAAA National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants
SN-43Q	N/A	40 CFR Part 63 subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
11Q, 24Q, 25Q, 26Q, 27Q, 28Q, 30Q through 39Q	PM, PM ₁₀ , SO ₂ , CO, NO _x	40 CFR 52 Prevention of Significant Deterioration

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
11Q, 13Q, 15Q, 24Q, 25Q, 32Q, 12P, 18P, and 19P	PM and PM ₁₀	40 CFR 64 Compliance Assurance Monitoring

The portable diesel generator (SN-45Q) is not subject to NSPS Subpart IIII or NESHAP Subpart ZZZZ since it is not considered a stationary engine.

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. AMBIENT AIR EVALUATIONS:

a) Reserved.

b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Department procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
HCl	2.98	0.23	24.0	N
1,3-Butadiene	4.42	0.48	1.13E-04	Y
Acetaldehyde	45 ^a .	4.9	2.22E-03	Y
Acrolein	0.22 ^a .	0.025	2.68E-04	Y
Benzene	1.59	0.17	2.71E-03	Y
Formaldehyde	0.36 ^a .	0.04	3.42E-03	Y
Toluene	75	8.2	1.19E-03	Y
Xylenes	434	47	8.27E-04	Y

Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
PAH	0.2*	0.022	4.87E-04	Y

* - TLV for coal tar pitch volatiles.

a. Ceiling Limit TLV.

2nd Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL (µg/m ³) = 1/100 of Threshold Limit Value	Modeled Concentration (µg/m ³)	Pass?
HCl	29.8	7.51	Y

There were no permitted emission increases for HCl with this permitting action.

Therefore, the modeling results presented are from the previous permitting action for Air Permit 0045-AOP-R5.

12. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01Q	AP-42, Section 11.19.2	0.00120 lb PM/ton 0.00054 lb PM ₁₀ /ton	None	n/a	
02Q	AP-42, Section 11.19.2	0.00120 lb PM/ton 0.00054 lb PM ₁₀ /ton	None	n/a	
03Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM ₁₀ /ton	None	n/a	
04Q	EPA's Control of Open Fugitive Dust Sources	See document	None	n/a	
05Q	AP-42, Section 11.19.2-2	0.00030 lb PM/ton 0.00010 lb PM ₁₀ /ton	None	n/a	

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
06Q	AP-42 Emission factor equation for unpaved roads, Table 13.2.2-1, Figure 13.2.2-1 and Figure 13.2.2-2	Factors based on usage and location	None	n/a	
07Q	AP-42, Section 11.19.2-2 and AP-42 Section 13.2.4	Numerous Factors	Enclosure on D06 Kiln Feed Belt	85% PM on D06	
09Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM ₁₀ /ton	None	n/a	
10Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM ₁₀ /ton	None	n/a	
11Q	PM/ PM ₁₀ MACT	0.12 lb/tsf	Dust Coll.	99% PM	
	SO ₂ Mass balance	3% by weight (long term) and 4% by weight (short term)	Dry Scrub	95% SO ₂	
	VOC AP-42 CO BACT levels NO _x BACT levels	0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced			
12Qa	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	2000 dscfm
12Qb	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1500 dscfm
13Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	3000 dscfm
14Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1500 dscfm
15Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	14000 dscfm
16Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
17Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
18Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
19Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000642 lb PM ₁₀ /ton	None	n/a	
20Qa/b	EPA's Control of Open Fugitive Dust Sources	See Document	None	n/a	

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
21Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000642 lb PM ₁₀ /ton	None	n/a	
22Q	AP-42, Section 11.19.2-2	0.00030 lb PM/ton 0.0001 lb PM ₁₀ /ton	None	n/a	
24Q	PM/ PM ₁₀ MACT SO ₂ Mass balance VOC AP-42 CO BACT levels NO _x BACT levels	0.10 lb/tsf 3% by weight (long term) and 4% by weight (short term) 0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced	Dust Coll. Dry Scrub	99% PM 95% SO ₂	
25Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	3000 dscfm
26Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	2000 dscfm
27Q	AP-42 Section 13.2.4	0.00309 lb PM/ton 0.00146 lb PM ₁₀ /ton	Enclosure	85% PM	
28Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000641 lb PM ₁₀ /ton	Enclosure	85% PM	
29Q	AP-42 Emission factor equation for paved roads, Table 13.2.2-1, Figure 13.2.2-1 and Figure 13.2.2-2	Factors based on usage and location	None	n/a	
30Q	PM/ PM ₁₀ MACT SO ₂ Mass balance VOC AP-42 CO BACT levels NO _x BACT levels	0.10 lb/tsf 3% by weight (long term) and 4% by weight (short term) 0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced	Dust Coll. Dry Scrub	99% PM 95% SO ₂	

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
31Q	AP-42, Section 11.19.2-2 and AP-42 Section 13.2.4	0.000140 lb PM/ton 0.000046 lb PM ₁₀ /ton and 0.00309 lb PM/ton 0.00146 lb PM ₁₀ /ton	None	n/a	
32Q	Grain Loading	0.010 gr/dscf	Dust Coll.	99% PM	3000 dscfm
33Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1000 dscfm
34Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000641 lb PM ₁₀ /ton	Enclosure	85% PM	
35Q	AP-42, Section 11.19.2-2	0.00309 lb PM/ton 0.00146 lb PM ₁₀ /ton	Enclosure	85% PM	
36Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	7000 dscfm
37Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	7000 dscfm
38Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
39Q	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
40Q	AP-42 Section 13.2.4	0.0776 lb PM/ton 0.00367 lb PM ₁₀ /ton	None	n/a	
41Q	AP-42 Section 13.2.4	0.0776 lb PM/ton 0.00367 lb PM ₁₀ /ton	None	n/a	
43Q	AP-42 Table 3.3-1 and Table 3.3-2	Numerous Factors	None	n/a	
44Q	AP-42 Table 3.3-2	Numerous Factors	None	n/a	
45Q	Tier 3 engine emissions factors from 40 CFR 89.112(a)	g/kW-hr: 4.0 HC+NO _x 3.5 CO 0.2 PM/PM ₁₀ 0.2 PM _{2.5}	None	n/a	PM _{2.5} assumed to be equal to PM ₁₀

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
46Q	AP-42, Section 11.19.2 Table 11.19.2-2	lb/ton: Screening 0.0022 PM 0.00074 PM ₁₀ 5E-05 PM _{2.5} Conveyor transfer points 1.4E-04 PM 4.6E-05 PM ₁₀ 1.3E-05 PM _{2.5}	Water spray as needed	n/a	
01P	AP-42, Section 11.19.2-2 and AP-42 Section 13.2.4	Numerous Factors	Partial Enclosure for B	85% PM for B	
12P	Grain Loading and Natural Gas factors	0.020 gr/dscf 100 lb/MMscf NO _x 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂	Dust Coll.	99% PM	10730 dscfm
13P	Grain Loading	0.020 gr/dscf	Dust Coll.	99% PM	1200 dscfm
14P	AP-42, Table 11.17-4	0.0915 lb PM/ton 0.0305 lb PM ₁₀ /ton	None	n/a	
18P	Grain Loading and Natural Gas factors	0.020 gr/dscf 100 lb/MMscf NO _x 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂	Dust Coll.	99% PM	15000 dscfm
19P	Grain Loading and Natural Gas factors	0.020 gr/dscf 100 lb/MMscf NO _x 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂	Dust Coll.	99% PM	10100 dscfm
20P	AP-42, Section 11.19.2-2	0.04500 lb PM/ton 0.01080 lb PM ₁₀ /ton	None	n/a	
24P	AP-42, Table 11.17-4	0.0915 lb PM/ton 0.0305 lb PM ₁₀ /ton	None	n/a	

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
26P	AP-42 Emission factor equation for paved roads, Table 13.2.2-1, Figure 13.2.2-1 and Figure 13.2.2-2	Factors based on usage and location	None	n/a	
29P	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1200 dscfm
30P	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	2500 dscfm
33P	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1200 dscfm
34P	Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1200 dscfm
35P	AP-42, Table 11.17-4	0.0225 lb PM/ton 0.0750 lb PM ₁₀ /ton	None	n/a	
36P	Grain Loading	0.022 gr/dscf	Dust Coll.	99% PM	900 dscfm

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
11Q	PM NO _x CO stone feed rate monitor	5 7E 10 Mass throughput test	Every 5 Years	Dept. Guidance
24Q	PM NO _x CO stone feed rate monitor	5 7E 10 Mass throughput test	Every 5 Years	PSD

SN	Pollutants	Test Method	Test Interval	Justification
30Q	PM NO _x CO stone feed rate monitor	5 7E 10 Mass throughput test	Every 5 Years	PSD
46Q	Opacity	9	Initial test	NSPS Subpart OOO

14. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
11Q	Opacity	COM	Continuous	Only periods of excess: See SC #58
11Q	%O ₂	CEM	Continuous	N
24Q	Opacity	COM	Continuous	Only periods of excess: See SC#125
24Q	%O ₂	CEM	Continuous	N
30Q	Opacity	COM	Continuous	Only periods of excess: See SC #177
30Q	%O ₂	CEM	Continuous	N

15. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
01Q	Tons of Limestone	1,700,000 per 12 month period	Monthly	N

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
02Q	Tons of Limestone	1,640,000 per 12 month period	Monthly	N
03Q	Tons of Limestone	3,362,000 per 12 month period	Monthly	N
05Q	Number of Railcars	16,000 per 12 month period	Monthly	N
09Q	Tons of Limestone	822,000 per 12 month period	Monthly	N
10Q	Tons of Limestone	1,368,750 per 12 month period	Monthly	N
11Q	Tons of Coal/Coke	47,253 per 12 month period	Daily	N
11Q	Tons of Lime	687.0 per day, 228,125 per 12 month period	Daily	Y (Annual Total)
11Q	Ash Mineral Content	Maximum allowable to keep HAPs below Deminimis levels	Each New Mine	N
11Q	Particulate Emission Rate	0.12 lb/ton of Stone Fed	Each Run	N
11Q	Sulfur Content of Fuel	4% by weight daily 3% by weight 30 day average	Each Shipment	N
11Q	NO _x emissions	3.5 lb/ton of Lime	Continuous %O ₂	N
11Q	Performance Test Data	See SC#57 and SC#65 (h),(i)	5 years	Y
11Q	Inspection of Filter	N/A	Annually	N
11Q	Calibration of O ₂ monitor	N/A	4 weeks and during cell replacement	N
19Q	Tons of Coal/Coke	141,759 per 12 month period	Monthly	N
22Q	Tons of Limestone	200,000 per 12 month period	Monthly	N
24Q	Tons of Coal/Coke	47,253 per 12 month period	Daily	N
24Q	Tons of Limestone	687.0 per day 228,125 per 12 month period	Daily	Y (Annual total)

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
24Q	Ash Mineral Content	Maximum allowable to keep HAPs below Deminimis levels	Each New Mine	N
24Q	Particulate Emission Rate	0.10 lb/ton of Stone Fed	Each Run	N
24Q	Sulfur Content of Fuel	4% by weight daily 3% by weight 30 day average	Each Shipment	N
24Q	NO _x emissions	3.5 lb/ton of Lime	Continuous %O ₂	N
24Q	Performance Test Data	See SC#132 and SC#144 (h),(i)	5 years	Y
24Q	Inspection of Filter	N/A	Annually	N
24Q	Calibration of O ₂ monitor	N/A	4 weeks and during cell replacement	N
25Q	Cause of any visible emission exceedance and Corrective Action	5%	Daily	N
30Q	Tons of Coal/Coke	47,253 per 12 month period	Daily	N
30Q	Tons of Limestone	687.0 per day 228,125 per 12 month period	Daily	Y (Annual total)
30Q	Ash Mineral Content	Maximum allowable to keep HAPs below Deminimis levels	Each New Mine	N
30Q	Particulate Emission Rate after 1/5/07	0.10 lb/ton of Stone Fed	Each Run	N
30Q	Sulfur Content of Fuel	4% by weight daily 3% by weight 30 day average	Each Shipment	N
30Q	NO _x emissions	3.5 lb/ton of Lime	Continuous %O ₂	N
30Q	Performance Test Data	See SC#189 and SC#201 (h),(i)	5 years	Y
30Q	Inspection of Filter	N/A	Annually	N

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
30Q	Calibration of O ₂ monitor	N/A	4 weeks and during cell replacement	N
31Q	Tons of Limestone	1,100,000 per 12 month period	Monthly	N
32Q	Particulate Emission Rate	0.010 gr/dscf	Annual	N
33Q	Particulate Emission Rate	0.015 gr/dscf	Annual	N
35Q	Tons of Limestone	450,000 per 12 month period	Monthly	N
36Q	Particulate Emission Rate	0.015 gr/dscf	Annual	N
37Q	Particulate Emission Rate	0.015 gr/dscf	Annual	N
38Q	Particulate Emission Rate	0.015 gr/dscf	Annual	N
39Q	Particulate Emission Rate	0.015 gr/dscf	Annual	N
43Q	Hours of Operation and Description of Use	500 hr/yr total 100 hr/yr maintenance 50 hr/yr non-emergency	Each use	N
43Q	Maintenance Performed	See SC#249 - SC#259	As Needed	N
01P	Tons of Limestone	432,000 per 12 month period	Monthly	N
14P	Tons of Bagged Hydrated Lime	35,040 per 12 month period	Monthly	N
20P	Tons of Pulverized Limestone	262,800 per 12 month period	Monthly	N
24P	Tons of Pulverized Limestone	35,040 per 12 month period	Monthly	N

16. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01Q	15%	NSPS OOO	Weekly Observations
02Q	15%	NSPS OOO	Weekly Observations
03Q	10%	NSPS OOO	Weekly Observations
04Q	20%	Dept. Guidance	Daily Observations
05Q	20%	Dept. Guidance	Daily Observations
07Q	10%	NSPS OOO MACT AAAAA	Weekly Observations
09Q	10%	NSPS OOO	Weekly Observations
10Q	10%	NSPS OOO	Weekly Observations
11Q	15%	NSPS HH MACT AAAAA	COM
12Q(a&b)	5%	Dept. Guidance	Weekly Observations
13Q	5%	CAM	Daily Observations
14Q	5%	Dept. Guidance	Weekly Observations
15Q	5%	CAM	Daily Observations
16Q	5%	Dept. Guidance	Weekly Observations
17Q	5%	Dept. Guidance	Weekly Observations
18Q	5%	Dept. Guidance	Weekly Observations
19Q	20%	Dept. Guidance	Daily Observations
20Q	20%	Dept. Guidance	Daily Observations
21Q	20%	Dept. Guidance	Daily Observations
22Q	20%	Dept. Guidance	Daily Observations
24Q	15%	NSPS HH MACT AAAAA	COM
25Q	5%	CAM	Daily Observations
26Q	5%	Dept. Guidance	Weekly Observations
27Q	10%	MACT AAAAA	Weekly Observations
28Q	20%	Dept. Guidance	Daily Observations

SN	Opacity	Justification for limit	Compliance Mechanism
30Q	15%	NSPSHH MACT AAAAA	COM
31Q	20%	NSPS OOO	Daily
32Q	5%	CAM	Daily Observations
33Q	5%	Dept. Guidance	Weekly Observations
34Q	20%	Dept. Guidance	Daily Observations
35Q	10%	MACT AAAAA	Weekly
36Q	5%	Dept. Guidance	Weekly Observations
37Q	5%	Dept. Guidance	Weekly Observations
38Q	5%	Dept. Guidance	Weekly Observations
39Q	5%	Dept. Guidance	Weekly Observations
43Q	20%	Dept. Guidance	Daily when operating
45Q	20%	Dept. Guidance	Weekly Observations
46Q	7%	NSPS OOO	Weekly Observations
01P	10%	NSPS OOO	Weekly
12P	5%	CAM	Daily
13P	5%	Dept. Guidance	Weekly Observations
14P	5%	Dept. Guidance	Weekly Observations
18P	5%	CAM	Daily
19P	5%	CAM	Daily
20P	20%	Dept. Guidance	Daily Observations
24P	5%	Dept. Guidance	Weekly Observations
29P	5%	Dept. Guidance	Weekly Observations
30P	7%	NSPS OOO	Weekly Observations
33P	10%	NSPS OOO	Weekly Observations
34P	10%	NSPS OOO	Weekly Observations
35P	20%	Dept. Guidance	Daily Observations

SN	Opacity	Justification for limit	Compliance Mechanism
36P	7%	NSPS OOO	Weekly Observations

17. DELETED CONDITIONS:

Former SC	Justification for removal
	N/A

18. GROUP A INSIGNIFICANT ACTIVITIES:

Source Name	Group A Category	Emissions (tpy)						
		PM PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs	
							Single	Total
Lime Cooler Rejects Discharge	A-13	0.06						
		0.06						
Dribble Chute Discharge	A-13	0.01						
		0.01						
Railcar Cleanout	A-13	0.821						
		0.821						
Blast Hole Drilling	A-13	0.08						
		0.08						
Quarry Blasting	A-13	<5tpy						
		<5tpy						
Portable Conveyor	A-13	0.19						
		0.09						
Big Bag Filling	A-13	0.4						
		0.4						
8,000 gallon Diesel Storage Tank	A-3			0.01				
1,000 gallon Diesel Storage Tank	A-3			0.01				
2 X 500 gallon Diesel Storage Tanks	A-3			0.01				
1,000 gallon Gasoline Tank	A-3			0.4				
2 X 1,000 gallon Lube Oil Storage Tanks	A-3			0.1				

Source Name	Group A Category	Emissions (tpy)						
		PM PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs	
							Single	Total
Hydrate Rejects Discharge	A-13	0.01						

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

List all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
0045-AOP-R5

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Revised 08-25-14

Facility Name: Arkansas Lime Company
 Permit Number: 0045-AOP-R6
 AFIN: 32-00014

\$/ton factor	23.89	Annual Chargeable Emissions (tpy)	2175.24
Permit Type	Minor Mod	Permit Fee \$	500

Minor Modification Fee \$ 500
 Minimum Modification Fee \$ 1000
 Renewal with Minor Modification \$ 500

Check if Facility Holds an Active Minor Source or Minor Source General Permit

If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ 0

Total Permit Fee Chargeable Emissions (tpy) 18.8

Initial Title V Permit Fee Chargeable Emissions (tpy)

HAPs not included in VOC or PM: Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants: All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensable PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		325.2	331.9	6.7	6.7	331.9
PM ₁₀		203.4	206.1	2.7		
SO ₂		433.2	433.3	0.1	0.1	433.3
VOC		52.6	52.6	0	0	52.6
CO		1057.7	1068.2	10.5		
NO _x		1249.8	1261.8	12	12	1261.8
HCl	<input checked="" type="checkbox"/>	95.64	95.64	0	0	95.64
Total HAPs	<input type="checkbox"/>	0	4.92E-02	0.0492		
	<input type="checkbox"/>	0	0	0		
a. Only NO _x emissions from SN-45Q are counted in chargeable emissions, as SN-45Q emission limits are in terms of NO _x + HC. This will prevent double counting of NO _x emissions.	<input type="checkbox"/>	0	0	0		
	<input type="checkbox"/>	0	0	0		
	<input type="checkbox"/>	0	0	0		
	<input type="checkbox"/>	0	0	0		