### STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0045-AOP-R7 AFIN: 32-00014

#### PERMITTING AUTHORITY: 1.

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

#### APPLICANT: 2.

Arkansas Lime Company 600 Limedale Road Batesville, Arkansas 72503

#### PERMIT WRITER: 3.

Kelly Turner

#### NAICS DESCRIPTION AND CODE: 4.

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
7/16/2015	Renewal with modification	Remove engines (SN-44Q & SN-45Q) from source list; include condensable PM <sub>10</sub> emissions; include HAPs from natural gas combustion

#### REVIEWER'S NOTES: 6.

Arkansas Lime Company owns and operates a limestone quarry and lime manufacturing plant near Batesville, in Independence County, Arkansas. The following changes are included in Title V renewal permit:

The non-stationary engines (SN-44Q and SN-45Q) are removed from the source list because they are nonroad engines exempt from permitting.

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The condensable PM<sub>10</sub> emission rates are now included for SN-11Q, SN-24Q and SN-30Q due to EPA's clarification that condensables shall be incorporated into PM<sub>10</sub> emission limits.

- HAPs from natural gas combustion are included for SN-12P, SN-18P and SN-19P.
- Permit conditions associated with the use of water sprays have been updated to denote water sprays are not required when ambient temperatures are near or below freezing.
- The total emissions changes are -8.7 tpy PM, +121.5 PM $_{10}$ , -7.3 tpy SO $_2$ , -20.8 tpy VOC, -34.1 tpy CO, -48.8 tpy NO $_x$  and +0.14 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 are no active or pending enforcement actions at the present time.

#### 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?

• Single pollutant  $\geq$  100 tpy and on the list of 28 or single pollutant  $\geq$  250 tpy and not on list

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

There are no PSD significant emission increases and there are no changes to BACT emission limits or control equipment. However, the condensable  $PM_{10}$  emission rates are now included for SN-11Q, SN-24Q and SN-30Q showing an increase in  $PM_{10}$  above PSD limits.

# 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 <sub>10</sub>	40 CFR 60, Subpart OOO New Source Performance Standards for Non Metallic Mineral Processing Plants
11Q, 24Q, and 30Q	PM and PM <sub>10</sub>	40 CFR 60, Subpart HH New Source Performance Standards for Lime Manufacturing Plants

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Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
		40 CFR 60, Subpart Y
	DM and DM.	New Source Performance
21Q, 28Q, and Coal systems	PM and PM <sub>10</sub>	Standards for Coal Preparation
		Plants
		40 CFR 63, Subpart AAAAA
2.00 2.00 2.00		National Emission Standards
07Q, 11Q, 24Q, 27Q, 30Q, and 35Q	PM and PM10	for Hazardous Air Pollutants
		for Lime Manufacturing
		Plants
		40 CFR Part 63 subpart ZZZZ,
		National Emission Standards
SN-43Q	N/A	for Hazardous Air Pollutants
511 15 2		for Stationary Reciprocating
1		Internal Combustion Engines
11Q, 24Q, 25Q, 26Q, 27Q,	DIA DIA GO CO NO	40 CFR 52 Prevention of
28Q, 30Q through 39Q	$PM, PM_{10}, SO_2, CO, NO_x$	Significant Deterioration
11Q, 13Q, 15Q, 24Q, 25Q,	DM I DM	40 CFR 64 Compliance
32Q, 12P, 18P, and 19P	PM and PM <sub>10</sub>	Assurance Monitoring

# 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.

## 1<sup>st</sup> 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).

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Pollutant	TLV (mg/m <sup>3</sup> )	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Acrolein	0.229	2.52E-02	2.27E-04	Y
Arsenic	0.041	4.51E-03	3.05E-06	Y
Beryllium	0.5E-04	5.5E-06	1.83E-07	Y
Cadmium	0.01	1.1E-03	1.68E-05	Y
Chromium	0.01	1.1E-03	2.14E-05	Y
Cobalt	0.02	2.2E-03	1.28E-06	Y
Manganese	0.02	2.2E-03	5.8E-06	Y
Mercury	0.025	2.75E-03	3.97E-06	Y
Nickel	0.2	0.022	3.2E-05	Y
Selenium	0.2	0.022	3.66E-07	Y

### c) H<sub>2</sub>S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

Is the facility exempt from the H<sub>2</sub>S Standards

Y

If exempt, explain: Facility does not emit H<sub>2</sub>S

Pollutant	Threshold value	Modeled Concentration (ppb)	Pass?
	20 parts per million (5-minute average*)	N/A	N/A
H <sub>2</sub> S	80 parts per billion (8-hour average) residential area	N/A	N/A
	100 parts per billion (8-hour average) nonresidential area	N/A	N/A

<sup>\*</sup>To determine the 5-minute average use the following equation

$$Cp = Cm (t_m/t_p)^{0.2}$$
 where

Cp = 5-minute average concentration

Cm = 1-hour average concentration

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 $t_m = 60 \text{ minutes}$  $t_p = 5 \text{ minutes}$ 

## 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 PM10/ton	None	n/a	
02Q	AP-42, Section 0.00120 lb PN 11.19.2 0.00054 lb PM		None	n/a	
03Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM10/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 PM10/ton	None	n/a	
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 PM10/ton	None	n/a	
10Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM10/ton	None	n/a	
	PM/ PM <sub>10</sub> MACT PM <sub>10</sub> Condensables AP-42, Table 11.17-2	0.12 lb/tsf 0.38 lb/ton 3% by weight (long	Dust Coll.  Dry Scrub	99% PM 95% SO <sub>2</sub>	
11Q	SO <sub>2</sub> Mass balance	term) and 4% by weight (short term)			
	VOC AP-42 CO BACT levels NOx 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

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	Emission Factor				
SN	Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
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 <sub>10</sub> /ton	None	n/a	
20Qa/b	EPA's Control of Open Fugitive Dust Sources	See Document	None	n/a	
21Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000642 lb PM10/ton	None	n/a	
22Q	AP-42, Section 11.19.2-2	0.00030 lb PM/ton 0.0001 lb PM <sub>10</sub> /ton	None	n/a	
	PM/ PM <sub>10</sub> MACT PM <sub>10</sub> Condensables AP-42, Table 11.17-2	0.10 lb/tsf 0.38 lb/ton	Dust Coll.	99% PM	
24Q	SO <sub>2</sub> Mass balance	3% by weight (long term) and 4% by weight (short term)	Dry Scrub	95% SO <sub>2</sub>	
	VOC AP-42 CO BACT levels NOx BACT levels	0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced			
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 <sub>10</sub> /ton	Enclosure	85% PM	_ Joo domi
28Q	AP-42 Section 13.2.4	0.00136 lb PM/ton 0.000641 lb PM10/ton	Enclosure	85% PM	

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
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	
	PM/ PM <sub>10</sub> MACT PM <sub>10</sub> Condensables AP-42, Table 11.17-2	0.10 lb/tsf 0.38 lb/ton	Dust Coll.	99% PM	
30Q	SO <sub>2</sub> Mass balance	3% by weight (long term) and 4% by weight (short term)	Dry Scrub	95% SO <sub>2</sub>	
	VOC AP-42 CO BACT levels NOx BACT levels	0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced			
31Q	AP-42, Section 11.19.2-2 and AP-42 Section 13.2.4	0.000140 lb PM/ton 0.000046 lb PM10/ton and 0.00309 lb PM/ton 0.00146 lb PM10/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 <sub>10</sub> /ton	Enclosure	85% PM	
35Q	AP-42, Section 11.19.2-2	0.00309 lb PM/ton 0.00146 lb PM10/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 PM10/ton	None	n/a	
41Q	AP-42 Section 13.2.4	0.0776 lb PM/ton 0.00367 lb PM <sub>10</sub> /ton	None	n/a	

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
43Q	AP-42 Table 3.3-1 and Table 3.3-2	Numerous Factors	None	n/a	
46Q	AP-42, Section 11.19.2 Table 11.19.2-2	Ib/ton: Screening 0.0022 PM 0.00074 PM <sub>10</sub> 5E-05 PM <sub>2.5</sub> Conveyor transfer points 1.4E-04 PM 4.6E-05 PM <sub>10</sub> 1.3E-05 PM <sub>2.5</sub>	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	
		0.020 gr/dscf	Dust Coll.	99% PM	10730 dscfm
12P	Grain Loading and Natural Gas factors	100 lb/MMscf NO <sub>X</sub> 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO <sub>2</sub>			
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 <sub>10</sub> /ton	None	n/a	1200 4301111
18P	Grain Loading and Natural Gas factors	0.020 gr/dscf  100 lb/MMscf NO <sub>X</sub> 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO <sub>2</sub>	Dust Coll.	99% PM	15000 dscfm
19P	Grain Loading and Natural Gas factors	0.020 gr/dscf  100 lb/MMscf NO <sub>X</sub> 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO <sub>2</sub>	Dust Coll.	99% PM	10100 dscfm
20P	AP-42, Section 11.19.2-2	0.04500 lb PM/ton	None	n/a	
24P	AP-42, Table 11.17-	0.01080 lb PM <sub>10</sub> /ton 0.0915 lb PM/ton 0.0305 lb PM <sub>10</sub> /ton	None	n/a	

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SN	Emission Factor Source (AP-42, testing, etc.)	Source Emission Factor (lb/ton lb/hr etc.)		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 <sub>10</sub> /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 NOx CO	5 7E 10	Every 5 Years	Dept. Guidance
	stone feed rate monitor	Mass throughput test		
24Q	PM NOx CO	5 7E 10	Every 5 Years	PSD
2.14	stone feed rate monitor	Mass throughput test		
30Q	PM NOx CO	5 7E 10	Every 5 Years	PSD
	stone feed rate	Mass throughput		

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SN	Pollutants	Test Method	Test Interval	Justification
	monitor	test		
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	СОМ	Continuous	Only periods of excess: See SC #58
11Q	%O <sub>2</sub>	CEM	Continuous	N
24Q	Opacity	СОМ	Continuous	Only periods of excess: See SC#125
24Q	%O <sub>2</sub>	СЕМ	Continuous	N
30Q	Opacity	СОМ	Continuous	Only periods of excess: See SC #177
30Q	%O <sub>2</sub>	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
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

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/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 <sub>x</sub> emissions	3.5 lb/ton of Lime	Continuous %O2	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 <sub>2</sub>	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
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

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
24Q	Sulfur Content of Fuel	4% by weight daily 3% by weight 30 day average	Each Shipment	N
24Q	NO <sub>x</sub> emissions	3.5 lb/ton of Lime	Continuous %O2	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 <sub>2</sub> 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 <sub>x</sub> emissions	3.5 lb/ton of Lime	Continuous %O2	N
30Q	Performance Test Data	See SC#189 and SC#201 (h),(i)	5 years	Y
30Q	Inspection of Filter	N/A	Annually	N
30Q	Calibration of O <sub>2</sub> 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

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/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
05Q	20%	Dept. Guidance	Daily Observations
07Q	10%	NSPS OOO MACT AAAAA	Weekly Observations

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SN	Opacity	Justification for limit	Compliance Mechanism
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	Weekly Observations
20Q	20%	Dept. Guidance	Weekly Observations
21Q	20%	Dept. Guidance	Weekly Observations
22Q	20%	Dept. Guidance	Weekly Observations
24Q	15%	NSPS HH MACT AAAAA	СОМ
25Q	5%	CAM	Daily Observations
26Q	5%	Dept. Guidance	Weekly Observations
27Q	10%	MACT AAAAA	Weekly Observations
28Q	20%	Dept. Guidance	Weekly Observations
30Q	15%	NSPSHH MACT AAAAA	СОМ
31Q	20%	NSPS OOO	Weekly Observations
32Q	5%	CAM	Daily Observations
33Q	5%	Dept. Guidance	Weekly Observations
34Q	20%	Dept. Guidance	Weekly Observations
35Q	10%	MACT AAAAA	Weekly Observations
36Q	5%	Dept. Guidance	Weekly Observations

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SN	Opacity	Justification for limit	Compliance Mechanism
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
46Q	7%	NSPS OOO	Weekly Observations
01P	10%	NSPS OOO	Weekly Observations
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	Weekly Observations
24P	5%	Dept. Guidance	Weekly Observations
29P	5%	Dept. Guidance	Weekly Observations
30P	7%	NSPS 000	Weekly Observations
33P	10%	NSPS 000	Weekly Observations
34P	10%	NSPS 000	Weekly Observations
35P	20%	Dept. Guidance	Weekly Observations
36P	7%	NSPS OOO	Weekly Observations

## 17. DELETED CONDITIONS:

Former SC	Justification for removal
260-270	Non-stationary engines (SN-44Q and SN-45Q) were removed from the source list due to they are nonroad engines

# 18. GROUP A INSIGNIFICANT ACTIVITIES:

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				<del>-</del>				<del></del>
Source Norma	Group A			Emi	ssions (tp	y)		
Source Name	Category	PM	$SO_2$	VOC	СО	NO <sub>x</sub>	HA	Ps
		$PM_{10}$	502	VOC		NO <sub>X</sub>	Single	Total
Lime Cooler Rejects	A-13	0.06						
Discharge		0.06						
Dribble Chute	A-13	0.01						
Discharge		0.01						
Railcar Cleanout	A-13	0.821						
		0.821						
Blast Hole Drilling	A-13	0.08					1	
		0.08						
Quarry Blasting	A-13	<5tpy						
		<5tpy 0.19			<u> </u>			_
Portable Conveyor	A-13	0.19						
		0.07						<del></del>
Big Bag Filling	A-13							
		0.4						
8,000 gallon Diesel	A-3			0.01				
Storage Tank			_	0.01				
1,000 gallon Diesel	A-3			0.01				
Storage Tank				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	A-3			0.1				
Tanks				0.1				
Hydrate Rejects	4 10							
Discharge	A-13	0.01						
Stone Bagging Dust								
Collector (vents	NI/A							1
back inside	N/A							
building)		_						
Portable Water								
Pumps Engines and					1			
Trommel Screen								
Engine (non-	N/A							-
stationary engines								
not subject to NSPS								
or NESHAP rules)								

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# 19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #	
0045-AOP-R6	

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

# Fee Calculation for Major Source

Revised 08-26-15

Facility Name: Arkansas Lime Company Permit Number: 0045-AOP-R7

AFIN: 32-00014

23.93 Permit Type \$/ton factor

Modification

500 1000 500

Annual Chargeable Emissions (tpy) Permit Fee \$

2106.04

-81.2 L Check if Facility Holds an Active Minor Source or Minor If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ Total Permit Fee Chargeable Emissions (tpy) Renewal with Minor Modification \$ Minimum Modification Fee \$ Minor Modification Fee \$ Source General Permit

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 condensible PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Annual Chargeable Chargeable Emissions Emissions	Annual Chargeable Emissions
PM		331.9	323.2	-8.7		
$ PM_{10} $		206.1	327.6	121.5	-4.3	327.6
SO <sub>2</sub>		433.3	426	-7.3	-7.3	426
NOC		64.6	43.8	-20.8	-20.8	43.8
03		1068.2	1034.1	-34.1		
$NO_{\chi}$		1261.8	1213	-48.8	-48.8	1213
HCI	<u>&gt;</u>	95.64	95.64	0	0	95.64
Total HAPs	No.	0.00492	0.14	0.13508		