STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0045-AOP-R11 AFIN: 32-00014

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

Arkansas Lime Company 600 Limedale Road Batesville, Arkansas 72503

3. PERMIT WRITER:

Derrick Brown

4. NAICS DESCRIPTION AND CODE:

NAICS Description: Lime Manufacturing

NAICS Code: 327410

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
5/19/2023	Minor Modification	Inclusion of HCl testing for sources SN-11Q, SN-24Q, and SN-30Q.

6. REVIEWER'S NOTES:

Arkansas Lime Company owns and operates a limestone quarry and lime manufacturing plant near Batesville, Independence County, Arkansas. This modification updates HCl emissions for Rotary Lime Kilns SN-11Q, SN-24Q, and SN-30Q. This modification reduces permitted emissions of HCl based on testing conducted March 28 and 29th, 2023. Finally, this reduction results in the reclassification of this facility as an area source of HAP under section 1123 of the Clean Air Act and the removal of permitting requirements of 40 C.F.R. § 63, Subpart AAAAA. This modification decreases permitted HCl emissions by 85.71 tons per year.

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7. COMPLIANCE STATUS:

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

The facility's most recent inspection on May 20, 2022 stated there were no areas of concern.

8. PSD/GHG APPLICABILITY:

- a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N If yes, were GHG emission increases significant? N/A
- 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 for 8(b), explain why this permit modification is not PSD.

Arkansas Lime is requesting a reduction in allowable HCl emissions wit this modification, therefore, a PSD analysis is not required.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
01Q, 02Q, 03Q, 07Q, 09Q,		40 CFR 60, Subpart OOO
10Q, 27Q, 31Q, 35Q, 36Q,	PM and PM ₁₀	New Source Performance
46Q, 47Q, 01P, 19P, 30P,	1 ivi and 1 ivii	Standards for Non Metallic
33P, 34P, and 36P		Mineral Processing Plants
		40 CFR 60, Subpart HH
11Q, 24Q, and 30Q	PM and PM ₁₀	New Source Performance
11Q, 24Q, and 30Q	1 IVI and 1 IVI10	Standards for Lime
		Manufacturing Plants
		40 CFR 60, Subpart Y
21Q, 28Q, and Coal systems	PM and PM ₁₀	New Source Performance
21Q, 28Q, and Coar systems	Fivi and Fiviio	Standards for Coal
		Preparation Plants
		40 CFR Part 63 subpart
		ZZZZ, National Emission
SN 420	N/A	Standards for Hazardous Air
SN-43Q	IN/A	Pollutants for Stationary
		Reciprocating Internal
		Combustion Engines

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Source	Pollutant	Regulation (NSPS, NESHAP or PSD)	
11Q, 24Q, 25Q, 26Q, 27Q, 28Q, 30Q through 39Q	PM, PM ₁₀ , SO ₂ , CO, NO _x	40 CFR 52 Prevention of Significant Deterioration	
11Q, 13Q, 15Q, 24Q, 25Q, 32Q, 12P, 18P, and 19P	PM and PM ₁₀	40 CFR 64 Compliance Assurance Monitoring	

10. UNCONSTRUCTED SOURCES:

Unconstructed Source	Permit	Extension	Extension	If Greater than 18 Months without	
	Approval	Requested	Approval	Approval, List Reason for	
	Date	Date	Date	Continued Inclusion in Permit	
None					

11. PERMIT SHIELD – TITLE V PERMITS ONLY: (Minor Modification)

Did the facility request a permit shield in this application? N (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Rule 18 requirement.)

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
11Q, 24Q, 30Q	$SO_2,$ PM/PM_{10}	Daily limits and rolling 30-day limits on sulfur content in coal burned; COMS
13Q, 15Q, 25Q, 32Q, 12P, 18P, 19P	PM/PM ₁₀	Daily observation for visible emissions

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

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a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Division of Environmental Quality 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 Division of Environmental Quality 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/m³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Hydrogen Chloride	2.98	0.3282	2.57	N
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

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

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property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Division of Environmental Quality to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration (μg/m³)	Pass?
HC1	29.8	7.51*	Y

^{*}Modeled at 24 lbs/hr per R10 Statement of Basis. Current permitted emissions are 2.57 tons per year.

c) H₂S Modeling: N/A

15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
01Q	AP-42, Section 11.19.2	0.00120 lb PM/ton 0.00054 lb PM ₁₀ /ton	None	n/a	384 tph. 1,251,200 tpy.
02Qb	AP-42, Section 11.19.2	0.00120 lb PM/ton 0.00054 lb PM ₁₀ /ton	None	n/a	402 tph. 1,746,468 tpy.
03Qa					852 tph. 3,701,467 tpy.
03Qb	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM ₁₀ /ton	None	n/a	450 tph. 1,955,000 tpy.
03Qc					452 tph. 1,500,040 tpy.
04Q	EPA's Control of Open Fugitive Dust Sources, 9/1988	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	240 tph. 640,000 tpy.
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	k, a, b PM: 4.9, 0.7, 0.45 PM ₁₀ : 1.5, 0.9, 0.45 s = 8.3% silt p = 105 days/yr 36t payload + 34t truck = 70 ton loaded truck	Road watering	75%	0.9 mi/rd trip * (1 rd trip / 36 t payload) *1,955,000 tons rock/yr = 48,875 VMT/yr. 4380 nominal op hr/yr

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
		(34+70)/2 = 52 ton mean W = 52t avg truck			= ~1.99 max VMT/hr.
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	300 tph. 822,000 tpy.
10Q	AP-42, Section 11.19.2	0.00220 lb PM/ton 0.00074 lb PM ₁₀ /ton	None	n/a	250 tph. 1,368,750 tpy.
11Q, 24Q	PM/ PM ₁₀ MACT PM ₁₀ Condensables AP-42, Table 11.17-2 SO ₂ Mass balance	0.12 lb/tsf 0.38 lb/ton 3% by weight (long term) and 4% by weight (short term)	Dust Coll. Dry Scrub	99% PM 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

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
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	
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	
25Q	BACT/ Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	3000 dscfm
26Q	BACT/ 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, AP-42 Section 13.2.1	Factors based on usage and location	None	n/a	
30Q	PM/ PM ₁₀ MACT PM ₁₀ Condensables AP-42, Table 11.17-2	0.10 lb/tsf 0.38 lb/ton lime	Dust Coll.	99% PM	1 ton stone feed (tsf) = 0.5 ton lime output. 625 t lime output/ day = 1250 tsf/day. 750 t lime/ output/ day = 1500 tsf/day.
30Q	SO ₂ Mass balance	3% by weight (long term) and 4% by weight (short term)	Dry Scrub	95% SO ₂	For hourly emissions: 750 t lime/ day per kiln, 24 hr day.

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
					For annual emissions: 228,125 t/yr per kiln, 365 day/yr = 625 t/day.
30Q	VOC AP-42, table 1.1-19 CO BACT levels NOx BACT levels	0.6 lb/ton 3.0 lb/ton produced 3.5 lb/ton produced			
30Q	SN-11Q 2003 HCl testing: 3.12 lb /hr (8.00 lb/hr used, to be conservative)				2003 testing was at 26 tph lime (= 624 tpd).
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	BACT/ Grain Loading	0.010 gr/dscf	Dust Coll.	99% PM	3000 dscfm
33Q	BACT/ 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	BACT/ Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	7000 dscfm
37Q	BACT/ Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	7000 dscfm
38Q	BACT/ Grain Loading	0.015 gr/dscf	Dust Coll.	99% PM	1400 dscfm
39Q	BACT/ 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	

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
41Q	AP-42 Section 13.2.4	0.0776 lb PM/ton 0.00367 lb PM ₁₀ /ton	None	n/a	
43Q	Vendor specs, with HAP from AP-42 Table 3.3- 2	g/hp-hr 0.04 PM/PM ₁₀ 0.115 SO ₂ 0.046 VOC 0.77 CO 3.42 NO _x 1b/MMBtu 3.87E-3 total HAP	None	n/a	382 hp. 453.6 g/lb. 19.59 gal/hr * 0.139 MMBtu/gal = 2.72301 MMBtu/hr. 500 hr/yr.
46Q	AP-42, Section 11.19.2 Table 11.19.2-2	lb/ton: Screening 0.0022 PM 0.00074 PM ₁₀ Conveyor transfer points 1.4E-04 PM 4.6E-05 PM ₁₀	Water spray as needed	n/a	500 tph, 8760 op hr/yr.
47Q	AP-42, Section 11.19.2-2	1.4E-04 PM 4.6E-05 PM ₁₀ 1.3E-05 PM _{2.5}	None	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 NOx 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂	Dust Coll.	99% PM	10730 dscfm. 4 MMBtu/hr. 1020 Btu/scf. 8760 hr/yr.
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 NOx	Dust Coll.	99% PM	15000 dscfm 6.3

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equip.	Control Equip. Eff.	Comments
		84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂			MMBtu/hr. 1020 Btu/scf. 8760 hr/yr.
		0.020 gr/dscf	Dust Coll.	99% PM	10100 dscfm
19P	Grain Loading and Natural Gas factors	100 lb/MMscf NOx 84 lb/MMscf CO 5.5 lb/MMscf VOC 0.6 lb/MMscf SO ₂			5.25 MMBtu/hr. 1020 Btu/scf. 8760 hr/yr.
20P	AP-42, Section 11.19.2-2	0.04500 lb PM/ton 0.01080 lb PM ₁₀ /ton	None	n/a	30 tph. 262,800 tpy.
24P	AP-42, Table 11.17-4	0.0915 lb PM/ton 0.0305 lb PM ₁₀ /ton	None	n/a	
26P	AP-42 Emission factor equation for paved roads, Section 13.2.1	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	NSPS OOO/ Grain Loading	0.022 gr/dscf	Dust Coll.	99% PM	900 dscfm. Instl 2005. NSPS OOO, Table 2.

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
11Q	PM NO _X	5 7E	Every 5 Years	Dept. Guidance

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SN	Pollutants	Test Method	Test Interval	Justification	
	СО	10			
	stone feed rate monitor	Mass throughput test			
	PM	5			
	NOx	7E			
24Q	СО	10	Every 5 Years	PSD	
	stone feed rate monitor	Mass throughput test	•		
30Q	PM NOx CO	5 7E 10	Every 5 Years	PSD	
	stone feed rate monitor	Mass throughput test			
46Q	Opacity	9	Initial test	NSPS Subpart OOO	

17. 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 Plantwide Condition #10
11Q	%O ₂	CEM	Continuous	N
24Q	Opacity	COM	Continuous	Only periods of excess: See PWC #10
24Q	%O ₂	CEM	Continuous	N
30Q	Opacity	COM	Continuous	Only periods of excess: See PWC #10
30Q	%O ₂	CEM	Continuous	N

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18. 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	1,251,200 per 12	Monthly	N	
UIQ	Limestone	month period	Monuny	IN	
02Qb	Tons of	1,746,468 per 12	Monthly	N	
02Q0	Limestone	month period	iviolitiny	11	
03Qa	Tons of	3,701,467 per 12	Monthly	N	
03 Qu	Limestone	month period	Withing	11	
03Qb	Tons of	1,955,000 per 12	Monthly	N	
03 40	Limestone	month period	Monthly		
03Qc	Tons of	1,500,040 per 12	Monthly	N	
	Limestone	month period			
05Q	Number of	16,000 per 12	Monthly	N	
	Railcars	month period	,		
09Q	Tons of	822,000 per 12	Monthly	N	
	Limestone Tons of	month period			
10Q		1,368,750 per 12	Monthly	N	
	Limestone Tons of	month period 47,254 per 12	-		
11Q	Coal/Coke	month period	Daily	N	
	Coai/Corc	687.0 per day,			
11Q	Tons of Lime	228,125 per 12	Daily	Y	
110	Tolls of Lillic	month period	Daily	(Annual Total)	
		Maximum			
		allowable to			
	Ash Mineral	keep HAPs			
11Q	Content	below	Each New Mine	N	
		Deminimis			
		levels			
110	Particulate	0.12 lb/ton of	Engle Descri	NT	
11Q	Emission Rate	Stone Fed	Each Run	N	
		4% by weight			
11Q	Sulfur Content	daily	Each Shipment	N	
110	of Fuel	3% by weight 30	Lach Shipment	1,4	
		day average			
11Q	NO _x emissions	3.5 lb/ton of	Continuous %O ₂	N	
110	110A CHIISSIOHS	Lime	Continuous 7002	1.4	
	Performance	See Plantwide	_	_	
11Q	Test Data	Conditions	5 years	Y	
		#10 and #11 and			

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
		40 C.F.R. §	•	• , ,
		60.344		
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)
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 Plantwide Conditions #10 and #11 and 40 C.F.R. § 60.344	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	5%	Daily	N

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
	Corrective Action			
30Q	Tons of Coal/Coke	47,253 per 12 month period	Daily	N
30Q	Tons of Limestone	750.0 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 Plantwide Conditions #10 and #11 and 40 C.F.R. § 60.344	5 years	Y
30Q	Inspection of Filter	N/A	Annually	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

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/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
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

19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism	
01Q	15%	NSPS OOO	Weekly Observations	
02Qb	12%	NSPS OOO	Weekly Observations	
03Qa	10%	NSPS OOO	Weekly Observations	
03Qb	7%	NSPS OOO	Weekly Observations	
03Qc	7%	NSPS OOO	Weekly Observations	
05Q	20%	Dept. Guidance	Daily Observations	
070	7%	NSPS OOO	Waaldy Observations	
07Q	/ 70	MACT AAAAA	Weekly Observations	
09Q	10%	NSPS OOO	Weekly Observations	
10Q	10%	NSPS OOO	Weekly Observations	
110	15%	NSPS HH	COM	
11Q	1370	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	

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			Compliance
SN	Opacity	Justification for limit	Compliance
16Q	5%	Dont Guidanas	Mechanism Weekly Observations
,	5%	Dept. Guidance	7
17Q		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	COM
_		MACT AAAAA	
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	COM
_		MACT AAAAA	
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
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
47Qa	7%	NSPS OOO	Weekly Observations
47Qb	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 OOO	Weekly Observations
33P	10%	NSPS OOO	Weekly Observations
34P	10%	NSPS OOO	Weekly Observations
35P	20%	Dept. Guidance	Weekly Observations
36P	7%	NSPS OOO	Weekly Observations Weekly Observations
our	/ 70	Noro UUU	weekly Observations

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20. DELETED CONDITIONS:

Former SC	Justification for removal
Specific Conditions 33, 34, 37,	
38, 52 through 63, 115 through	This modification permits the facility as an area source
125, 145, 146, 164, 168 through	(minor source for HAPs), and thus the facility will not be
178, 211, and 212.	subject to the requirements of 40 C.F.R. § 63, Subpart
Plantwide Conditions 8, 9, 20,	AAAA.
21, and 22.	

21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

	Group			Emissio	ons (tp	y)		
Source Name	A	DM/DM ₁₀	SO	VOC	СО	NOx	НА	Ps
	Source Name	CO	NOx	Single	Total			
Lime Cooler Rejects	Λ 12	0.06						
Discharge	A-13	0.06						
Dribble Chute Discherge	Λ 12	0.01						
Diffole Chute Discharge	A-13	0.01						
Railcar Cleanout	Λ 13	0.821						
Kancai Cicanout	A-13	0.821						
Blact Hole Drilling	Λ 13	0.08						
Blast Hole Diffilling	A-13	0.08						
Quarry Blacting	Λ 13	<5tpy						
Quarry Blasting	A-13							
Portable Conveyor	Λ_13	0.19						
1 ortable Conveyor	A-13	0.09						
Big Bag Filling	A-13							
	71 13	0.4						
8,000 gallon Diesel Storage	A-3			0.01				
Tank	110			0.01				
1,000 gallon Diesel Storage Tank	A-3			0.01				
2 X 500 gallon Diesel	4.2			0.01				
Storage Tanks	A-3			0.01				
1,000 gallon Gasoline Tank	A-3			0.4				
2 X 1,000 gallon Lube Oil	Λ 2			0.1				
~				0.1				
Hydrate Rejects Discharge	A-13	0.01						

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	Group	Emissions (tpy)						
Source Name	Α	PM/PM ₁₀	SO ₂	VOC	СО	NOx	HAPs	
	Cat						Single	Total
Stone Bagging Dust								
Collector (vents back inside	N/A							
building)								
Portable Water Pumps	N/A							
Engines and Trommel								
Screen Engine (non-								
stationary engines not								
subject to NSPS or								
NESHAP rules)								
Sorting Machines (no	N/A							_
emissions)								

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
0045-AOP-R10



Facility Name: Arkansas Lime Company

Permit Number: 0045-AOP-11

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\$/ton factor	28.14	Annual Chargeable Emissions (tpy)	2020.93
Permit Type	Modification	Permit Fee \$	1000
Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or Min	or _		
Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	-85.71		
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 Chargeable Emissions	Annual Chargeable Emissions
PM		328.2	328.2	0	0	328.2
PM_{10}		328.1	328.1	0		
PM _{2.5}		0	0	0		
SO_2		426	426	0	0	426
VOC		43.8	43.8	0	0	43.8
со		1034.1	1034.1	0		
NO_X		1213	1213	0	0	1213
HCl	~	95.64	9.93	-85.71	-85.71	9.93

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Total Other HAPs except HCl		0.16	0.16	0		
Single HAP		0	9.5	9.5		
Total HAP		0	24.5	24.5		
		0	0	0		
		0	0	0		
		0	0	0		
		0	0	0		
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