

Ms. Kimberly S. Lagomarsino, Ph.D.
Director of Environmental Affairs
Mississippi Lime
16147 U.S. Highway 61
Ste. Genevieve, MO 63670

RE: Correction of New Source Review Permit Number 072004-012
Project Number: 2007-09-059; Installation ID Number: 186-0001

Dear Ms. Lagomarsino:

On September 20, 2007, the Missouri Air Pollution Control Program received an application from Mississippi Lime for the amendment of Permit Number 072004-012 and the correction to as-built emission sources at the installation. The application addressed the particulate matter less than ten (10) microns in diameter (PM₁₀), nitrogen oxide (NO_x) and carbon monoxide (CO) emission rates affected by the requested corrections.

In the original permit submittal, Mississippi Lime conducted a net emissions increase analysis for the criteria pollutants: PM₁₀, sulfur oxides (SO_x), NO_x, CO and Volatile Organic Compounds (VOC). A net emissions increase analysis examined all the emission increases and decreases that occurred at the installation for the air pollutants of concern during the contemporaneous time period determined for the project. The contemporaneous time period in this case includes the corrections to as-built equipment designs for the originally proposed project. Since these corrections affected the hourly and annual emissions of PM₁₀, NO_x, and CO, a revised netting analysis for PM₁₀, NO_x, and CO was performed to ensure that the net emissions increase from the corrected project did not exceed the de minimis level for each pollutant.

Revision to CO Netting Analysis

The netting analysis performed in Permit Number 072004-012 based the emission rates of the two new kilns for CO on the measured emission rate of the first Single Shaft Kiln (SSK1). As a requirement of Permit Number 072004-012, Mississippi Lime conducted performance tests on the two new Single Shaft vertical Kilns (SSK2 and SSK3) to confirm the emission rates of CO used in the net emissions increase analysis. Based on the results of those tests, the combined CO emission rate of the three kilns was found to be higher than the rate used in the netting analysis. This resulted in an increase from the original permitted number of 741 tons per year to 959 tons per year of CO. However, based on the revised netting analysis, the increase in CO emissions will not affect the original outcome of the netting analysis.

The revised netting analysis performed for this amendment incorporated the increase to CO emissions into the original netting analysis results, which resulted in a net emissions decrease in CO emissions of 670 tons per year. Since the results of this net CO emissions increase analysis is still below the 100 ton per year significant level, it remains appropriate to review this project in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required* for CO. The results of the updated netting analysis can be found in Appendix B.

Revision to NO_x Netting Analysis

Similar to the CO netting analysis, the NO_x netting analysis performed in Permit Number 072004-012 based the emission rates of the two new kilns on the measured emission rate of the first Single Shaft Kiln (SSK1). The results of the performance tests on SSK2 and SSK3 for NO_x, as required by Permit Number 072004-012, showed a decrease in the combined NO_x emission rate of the three kilns from the original emission rate used in the netting analysis of 148 tons per year to 98 tons per year of NO_x.

Subsequent to the results of the performance tests, Mississippi Lime proposed the removal of the low-NO_x burner requirements. In the original analysis, Mississippi Lime proposed to install a low NO_x burner on one of its existing rotary lime kilns, MRK8, to achieve a reduction in the NO_x emissions necessary to demonstrate a de minimis net emissions increase in NO_x. The three conditions associated with NO_x reduction were Special Conditions 7, 8 and 9. Special Condition 7 limited NO_x emissions from the Mississippi Rotary Kiln (EP-183H) to less than 306.09 tons per year as needed to achieve 35.94 tons of NO_x emission reductions. Special Condition 8 required the installation to record the monthly production from all six Mississippi Rotary Kilns to ensure that no load shifting would occur as a result of preceding NO_x limit. Special Condition 9 required stack testing of the rotary kiln to verify emissions post low-NO_x burner installation.

Incorporating both the new emission rates from the stack tests and the removal of the low NO_x burner reductions into the original netting analysis resulted in a net emissions increase in NO_x emissions of 21 tons per year. Since the results of this net NO_x emissions increase analysis is still below the 40 ton per year significant level, it remains appropriate to review this project in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required* for NO_x. The results of the updated netting analysis can be found in Appendix B.

Revision to PM₁₀ Netting Analysis

According to the information received on September 20, 2007, several emission points permitted under Permit Number 072004-012 were affected by minor alterations to the originally proposed design of the pre-kiln and post-kiln processing-handling system. All affected emission points were PM₁₀ sources.

Due to the simplification of the pre-kiln processing-handling system, a number of as-permitted emission points were not constructed. Mississippi Lime has requested these emissions points be removed from NSPS Subpart OOO testing requirements of Special Condition 12 and baghouse requirements of Special Condition 14. Subsequent new emission points not included in the original permit were added to these conditions appropriately.

Furthermore, in a correspondence from Mississippi Lime dated August 29, 2008, several additional ancillary projects, and corresponding emission points, included in the original project were not

constructed. These projects included the Railcar Cleaning System, Product Unloading System, Tailings Recovery System, and Liquid Calcium Hydrate System. Mississippi Lime has requested these emissions points be removed from stack testing requirements of Special Condition 10 and 11 and baghouse requirements of Special Condition 14.

Lastly, in a correspondence from Mississippi Lime dated January 16, 2009, additional revisions were submitted to the as-built amendment request. Mississippi Lime has requested the removal of Special Condition 11 which requires stack testing for Process/Handling Equipment. After removal of emission points EP-389 and EP-734 from this condition, due to the August 29, 2008 submittal, only emission points EP-089 PQL Roller Mill A and EP-387 1D Lime Screen remained. Mississippi Lime has stated that these remaining emission points, although part of the original permit submittal, are no longer being modified and are functioning in the same capacity as they were prior to the original permit review. Since no increase or decrease in emissions were included in the revised netting analysis and no modification has occurred, stack testing of these emission points are not necessary for the subject construction permit. Therefore, Special Condition 11 has been removed.

In addition, Mississippi Lime has requested the removal of Special Condition 10 which required stack testing for Truck/Rail Loadout Points. After removal of five (5) emission points from this condition, due to the August 29, 2008 submittal, only emission points EP-417 Screenings Bin Loadout and EP-131B Lime Railcar Loadout remained. Mississippi Lime has stated that these remaining emission points should be removed from stack testing requirements based on reasons that would restrict Mississippi Lime's ability to test, such as intermittent operation of equipment and design of the dust collector. As a result, control efficiencies used in the calculation of potential emissions from these emission points were lowered such that the testing requirements were no longer necessary. Therefore, Special Condition 10 has also been removed.

Appendix A provides a complete list of the emission sources under Permit Number 072004-012 and a description of their status resulting from this amendment.

The PM₁₀ netting analysis performed for this amendment incorporated the proposed changes into the original netting analysis results. The addition of 8 emission points, the removal of 36 emission points and the revision of 14 emission points to the original permitted project resulted in a net emissions decrease in PM₁₀ emissions of 43 tons per year. Since the results of this net PM₁₀ emissions increase analysis is still below the 15 ton per year significant level, it remains appropriate to review this project in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required* for PM₁₀. The results of the updated netting analysis can be found in Appendix B.

Based on the results of the revised netting analyses, Permit Number 072004-012 was amended to reflect the proposed corrections. Special Conditions 7.A-C, Special Conditions 8.A-B and Special Conditions 9.A-H were requirements associated with the installation and testing of the low NO_x burner on the existing rotary kiln. Based on the revised netting analysis, the installation of a low NO_x burner is no longer required, and, as such, the associated special conditions have been removed. The stack testing requirements under Special Condition 11 have also been removed since modification of the emission points listed in this condition has not occurred. Special Conditions 10, 12 and 14 have been updated to reflect the as-built configuration of emission points. No other conditions were affected by the correction and remain in effect.

Enclosed with this letter are the amended pages for Permit Number 072004-012. Please replace the appropriate pages in the above referenced permit with these enclosed pages. Operation in accordance with the new enclosed Special Condition pages (Permit Number 072004-012A) and in accordance with an amended operating permit submittal is necessary for continued compliance. In addition, you are still obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, and any other applicable federal, state, or local agency regulations.

A copy of this letter and the replaced pages from the original permit should be kept at the installation and be made available to Department of Natural Resources' personnel upon request. If you have any questions regarding this amendment, please contact Emily Wilbur at the Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102 or you may telephone at (573) 751-4817. Thank you for your time and cooperation.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kyra L. Moore
Permits Section Chief

KLM: ewl

Enclosures

c: Ms. Tamara Freeman, U.S. EPA Region VII
Southeast Regional Office
PAMS File: 2007-09-059

Appendix A: Updated Emission Point Description Summary

JULY 2004 PERMITTED SOURCES			JULY 2008 PERMIT REVISION SOURCES		
Point ID	DESCRIPTION	COMMENTS/CHANGES	COMMENTS/CHANGES	Point ID	DESCRIPTION
SSK 2 & 3 and New Supporting Equipment (Pre-Kiln Processing-Handling)					
EP-405	Limestone Conveyor	Source permitted as new equipment controlled by baghouse	As-built MHDR reduced and controlled by baghouse	EP-405	Limestone Conveyor
EP-406	Limestone Screen	Source permitted as new equipment controlled by baghouse	As-built MHDR reduced and controlled by baghouse	EP-406	Limestone Screen
EP-407	Storage Pile	No Change		EP-407	Storage Pile
			New source with no controls	EP-407A	Hopper Loading (Front End Loader)
EP-408	Vibrating Feeder	Source permitted as new equipment controlled by baghouse	Removed		
EP-409	Conveyor	Source permitted as new equipment controlled by baghouse	Removed		
EP-410	Screen	Source permitted as new equipment controlled by baghouse	Removed		
EP-411	Crusher	Source permitted as new equipment controlled by baghouse	Removed		
EP-412	Screen	Source permitted as new equipment controlled by baghouse	Removed		
EP-413	Conveyor	Source permitted as new equipment controlled by baghouse	Removed		
EP-414	Conveyor	Source permitted as new equipment controlled by baghouse	Removed		
EP-415A	Conveyor	Source permitted as new equipment controlled by	Removed		

		baghouse			
EP-415B	Conveyor	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-415B	Conveyor
EP-416	Screenings Bin	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-416	Screenings Bin
EP-417	Bin Loadout	Source permitted as new equipment controlled by baghouse	As-built MHDR reduced and controlled by baghouse	EP-417	Bin Loadout
EP-418	Storage Pile	Source permitted as a new source	Removed		
EP-419	Vibrating Feeder	Source permitted as new equipment controlled by baghouse	Removed		
EP-420	Screen	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-420	Screen
EP-421	Conveyor	Source permitted as new equipment controlled by baghouse	Removed		
EP-422A	Conveyor	No Change		EP-422A	Conveyor
EP-422B	Conveyor	No Change		EP-422B	Conveyor
EP-423A	SSK No.2 Load Hopper	No Change		EP-423A	SSK No.2 Load Hopper
EP-423B	SSK No.3 Load Hopper	No Change		EP-423B	SSK No.3 Load Hopper
EP-424	SSK No. 2	Source required to perform stack tests to determine emission rates of PM10, NOx and CO	Stack test results indicated CO, NOx and PM10 emission rates that differed from those used in the netting analysis.	EP-424	SSK No. 2
EP-425	SSK No. 3	Source required to perform stack tests to determine emission rates of PM10, NOx and CO	Stack test results indicated CO, NOx and PM10 emission rates that differed from those used in the netting analysis.	EP-425	SSK No. 3
EP-426A	Weigh Feeder	No Change		EP-426A	Weigh Feeder

EP-426B	Weigh Feeder	No Change		EP-426B	Weigh Feeder
EP-426C	Weigh Feeder	No Change		EP-426C	Weigh Feeder
			New source controlled by a baghouse	EP-426B1	Lime Screen
			New source controlled by a baghouse	EP-426C1	Lime Screen
EP-427A	Conveyor	No Change		EP-427A	Conveyor
EP-427B	Conveyor	No Change		EP-427B	Conveyor
EP-427C	Conveyor	No Change		EP-427C	Conveyor
EP-428A	Bucket Elevator	Source permitted as new equipment controlled by baghouse	Removed		
EP-428B	Bucket Elevator	Source permitted as new equipment controlled by baghouse	Removed		
EP-428C	Bucket Elevator	Source permitted as new equipment controlled by baghouse	Removed		
EP-429A	Storage Bin	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-429A	Storage Bin
EP-429B	Storage Bin	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-429B	Storage Bin
EP-429C	Storage Bin	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-429C	Storage Bin
			New source controlled by a baghouse	EP-429A1	Vibrating Feeder
			New source controlled by a baghouse	EP-429B1	Vibrating Feeder
			New source controlled by a baghouse	EP-429C1	Vibrating Feeder

EP-430	Conveyor	Source permitted as new equipment controlled by baghouse	As-built MHDR increased and controlled by baghouse	EP-430	Conveyor
			New source controlled by a baghouse	EP-430B	Lime Crusher
EP-431	Lime Silo	No Change		EP-431	Lime Silo
EP-432	Lime Silo	No Change		EP-432	Lime Silo
			New source controlled by a baghouse	EP-433	Lime Crushers (2)
Existing Equipment with Increased Utilization					
EP-040	Conveyor No. 6	No Change		EP-040	Conveyor No. 6
EP-275	VK-1 Limestone Conveyor	No Change		EP-275	VK-1 Limestone Conveyor
EP-276	VK-2 Limestone Conveyor	No Change		EP-276	VK-2 Limestone Conveyor
EP-277	VK-3 Limestone Conveyor	No Change		EP-277	VK-3 Limestone Conveyor
EP-342A	Limestone Conveyor	No Change		EP-342A	Limestone Conveyor
EP-378	Limestone Conveyor	No Change		EP-378	Limestone Conveyor
EP-387	1D Lime Screen	Existing equipment controlled by baghouse	Removed from project; no modification, will continue to function in previous capacity (SSK1 service only)	EP-387	1D Lime Screen
EP-389	Lime Crusher	Existing equipment controlled by baghouse	Removed		
EP-388	Fines Silo	No Change		EP-388	Fines Silo
EP-390	Crushed Lime Silo	No Change		EP-390	Crushed Lime Silo
EP-131	Two(2) Lime Silos	No Change		EP-131	Two(2) Lime Silos
EP-131A	Two(2) Lime Blending Silos	No Change		EP-131A	Two(2) Lime Blending Silos
EP-131B	Lime Railcar Loadout	No Change		EP-131B	Lime Railcar Loadout
Railcar Cleaning System					
EP-725	Railcar Unloading	Source permitted as new equipment controlled by baghouse	Removed		

EP-726	Bucket Elevator	Source permitted as new equipment controlled by baghouse	Removed		
EP-727	50 Ton Truck Bin	Source permitted as new equipment controlled by baghouse	Removed		
EP-728	Truck Loadout	Source permitted as new equipment controlled by baghouse	Removed		
Product Unloading (PQL Storage/Loadout System)					
EP-088D	Mill Feed Bin	Existing equipment controlled by baghouse	Removed from project; no modification, will continue to function in previous capacity	EP-088D	Mill Feed Bin
EP-089	PQL Roller Mill	Existing equipment controlled by baghouse	Removed from project; no modification, will continue to function in previous capacity	EP-089	PQL Roller Mill
EP-091D	100 Ton Storage Bin	Source permitted as new equipment controlled by baghouse	Removed		
EP-091E	100 Ton Storage Bin	Source permitted as new equipment controlled by baghouse	Removed		
EP-092D	Truck Loadout	Source permitted as new equipment controlled by baghouse	Removed		
EP-092E	Truck Loadout	Source permitted as new equipment controlled by baghouse	Removed		
Hydrate Tailings Recovery System					
EP-730	(2) Tailings Storage Bins	Existing equipment controlled by baghouse	Removed		
EP-731	Screen	Source permitted as new equipment controlled by baghouse	Removed		
EP-732	Screen	Source permitted as new equipment controlled by baghouse	Removed		
EP-733	(7) Product Storage Bins	Source permitted as new equipment controlled by	Removed		

		baghouse		
EP-734	(4) Mills	Existing equipment controlled by baghouse	Removed	
EP-735	Truck Loadout	Source permitted as new equipment controlled by baghouse	Removed	
EP-736	(2) Coarse Reject Bins	Existing equipment controlled by baghouse	Removed	
EP-737	Truck Loadout	Source permitted as new equipment controlled by baghouse	Removed	
Liquid Calcium Hydrate System				
EP-740	Hydrate Storage Bin	Existing equipment controlled by baghouse	Removed	
EP-741	Weigh Bin	Existing equipment controlled by baghouse	Removed	
EP-742	(2) Slurry Tanks	Existing equipment controlled by baghouse	Removed	
Miscellaneous Emission Points				
EP-130	Lime Silo No. 1 (existing)		No Change	EP-130 Lime Silo No. 1 (existing)
EP-131	Lime Silo No. 2 (existing)		No Change	EP-131 Lime Silo No. 2 (existing)
EP-126A	Bucket Elevator (existing)		No Change	EP-126A Bucket Elevator (existing)
<p>The applicant has included the "Miscellaneous Emission Points" in their amendment request but these emission points were not included in the revised netting analysis. The "Miscellaneous Emission Points" are listed under "Existing Equipment w/Increased Utilization" and not 'SSK 2 & 3 and New Supporting Equipment".</p>				

Appendix B: Revised Net Emissions Increase Analysis for CO, NO_x, and PM₁₀

Table 1: Revised Net Emissions Increase Analysis for CO

Emission Unit/Construction Permit Number	Emission Unit Description	Date of Change	24 Month "Look-Back" Period	Emission Increase or Decrease	2 Year Average Actual CO Emissions (Tons)
Creditable Decreases in CO Emissions From Equipment Removed During Contemporaneous Period					
EP-064	Peerless Rotary – Kiln No. 1	1/31/2000	1998-1999 EIQs	Decrease	-42.01
EP-110	Mississippi Vertical – Kiln No. 6	7/31/1998	1996-1997 EIQs	Decrease	-109.51
EP-113	Mississippi Vertical – Kiln No. 9	9/30/1996	1994-1995 EIQs	Decrease	-130.03
EP-106	Mississippi Vertical – Kiln No. 2	7/31/2002	2000-2001 EIQs	Decrease	-130.20
EP-109	Mississippi Vertical – Kiln No. 5	8/3/2002	2000-2001 EIQs	Decrease	-131.96
EP-115	Mississippi Vertical – Kiln No. 11	4/30/2002	2000-2001 EIQs	Decrease	-130.63
				Subtotal:	-674.34
Increases in CO Emissions From New Equipment Added During Contemporaneous Period					
EP-229B Permit No. 0897-018	Spray Dryer (Natural Gas) MRPCC No. 2	8/20/1997	2002-2003 EIQs	Increase	3.71
EP-261 Permit No. 0797-002	Portable Conveyor Diesel Engine	7/1/1997	PTE	Increase	1.14
EP-289 Permit No. 0898-019	Maerz Vertical Kiln	9/1/1998	2002-2003 EIQs	Increase	2.46
EP-380 Permit No. 092001-014	Single Shaft Vertical Kiln – SSK 1	6/1/2002	*	Increase	222.08
EP-231F Project No. 2002-05-086	Process Heater (Natural Gas)	6/7/2002	PTE	Increase	0.70
				Subtotal:	230.09
Estimated Increase in CO Emissions From New Vertical Kilns					
<i>EP-424 Project No. 2004-02-035</i>	<i>Single Shaft Vertical Kiln – SSK 2</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>643.86</i>
<i>EP-425 Project No. 2004-02-035</i>	<i>Single Shaft Vertical Kiln – SSK 3</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>67.89</i>
				Subtotal:	711.75
Actual CO Emissions From Existing Equipment Proposed to Be Removed as a Result of Project (2 Year Average)					
EP-107	Mississippi Vertical – Kiln No. 3	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-86.34
EP-108	Mississippi Vertical – Kiln No. 4	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-111.60
EP-111	Mississippi Vertical – Kiln No. 7	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-118.94
EP-112	Mississippi Vertical – Kiln No. 8	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-129.04
EP-116	Mississippi Vertical – Kiln No. 12	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-114.11
EP-117	Mississippi Vertical – Kiln No. 13	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-112.11
EP-118	Mississippi Vertical – Kiln No. 14	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-86.96
EP-119	Mississippi Vertical – Kiln No. 15	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-85.92
EP-120	Mississippi Vertical – Kiln No. 16	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-92.98
				Subtotal:	-938.00
Total CO Emissions Remaining for Project After Completion of Netting Analysis:					-670.50

*Includes actual production data from June 2002 – January 2004 (19 months) and 5 months of potential emissions.

**Italicized items are revisions to the original construction permit.

Table 2: Revised Net Emissions Increase Analysis for NO_x

Emission Unit/Construction Permit Number	Emission Unit Description	Date of Change	24 Month "Look-Back" Period	Emission Increase or Decrease	2 Year Average Actual NO _x Emissions (Tons)
Creditable Decreases in NO_x Emissions From Equipment Removed During Contemporaneous Period					
EP-064	Peerless Rotary – Kiln No. 1	1/31/2000	1998-1999 EIQs	Decrease	-86.83
EP-110	Mississippi Vertical – Kiln No. 6	7/31/1998	1996-1997 EIQs	Decrease	-0.84
EP-113	Mississippi Vertical – Kiln No. 9	9/30/1996	1994-1995 EIQs	Decrease	-1.01
EP-106	Mississippi Vertical – Kiln No. 2	7/31/2002	2000-2001 EIQs	Decrease	-1.01
EP-109	Mississippi Vertical – Kiln No. 5	8/3/2002	2000-2001 EIQs	Decrease	-1.02
EP-115	Mississippi Vertical – Kiln No. 11	4/30/2002	2000-2001 EIQs	Decrease	-1.01
				Subtotal:	-91.72
Increases in NO_x Emissions From New Equipment Added During Contemporaneous Period					
EP-229B Permit No. 0897-018	Spray Dryer (Natural Gas) MRPCC No. 2	8/20/1997	2002-2003 EIQs	Increase	1.04
EP-261 Permit No. 0797-002	Portable Conveyor Diesel Engine	7/1/1997	PTE	Increase	5.29
EP-289 Permit No. 0898-019	Maerz Vertical Kiln	9/1/1998	2002-2003 EIQs	Increase	19.67
EP-380 Permit No. 092001-014	Single Shaft Vertical Kiln – SSK 1	6/1/2002	*	Increase	44.24
EP-231F Project No. 2002-05-086	Process Heater (Natural Gas)	6/7/2002	PTE	Increase	0.83
				Subtotal:	71.07
Estimated Increase in NO_x Emissions From New Vertical Kilns					
<i>EP-424 Project No. 2004-02-035</i>	<i>Single Shaft Vertical Kiln – SSK 2</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>17.21</i>
<i>EP-425 Project No. 2004-02-035</i>	<i>Single Shaft Vertical Kiln – SSK 3</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>31.54</i>
				Subtotal:	48.75
Actual NO_x Emissions From Existing Equipment Proposed to Be Removed/Modified as a Result of Project (2 Year Average)					
EP-107	Mississippi Vertical – Kiln No. 3	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.67
EP-108	Mississippi Vertical – Kiln No. 4	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.86
EP-111	Mississippi Vertical – Kiln No. 7	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.92
EP-112	Mississippi Vertical – Kiln No. 8	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-1.00
EP-116	Mississippi Vertical – Kiln No. 12	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.88
EP-117	Mississippi Vertical – Kiln No. 13	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.87
EP-118	Mississippi Vertical – Kiln No. 14	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.67
EP-119	Mississippi Vertical – Kiln No. 15	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.66
EP-120	Mississippi Vertical – Kiln No. 16	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.72
EP-183H	Mississippi Rotary – Kiln No. 8		This item removed from netting analysis		
				Subtotal:	-7.25
Total NO_x Emissions Remaining for Project After Completion of Netting Analysis:					20.85

*Includes actual production data from June 2002 – January 2004 (19 months) and 5 months of potential emissions.

**Italicized items are revisions to the original construction permit.

Table 3: Revised Net Emissions Increase Analysis for PM₁₀

Emission Unit/Construction Permit Number/Project Number	Emission Unit Description	Date of Change	24 Month "Look-Back" Period	Emission Increase or Decrease	2 Year Average Actual PM₁₀ Emissions (Tons)
Creditable Decreases in PM₁₀ Emissions From Equipment Removed During Contemporaneous Period					
EP-064	Peerless Rotary – Kiln No. 1	1/31/2000	1998-1999 EIQs	Decrease	-14.84
EP-110	Mississippi Vertical – Kiln No. 6	7/31/1998	1996-1997 EIQs	Decrease	-5.56
EP-113	Mississippi Vertical – Kiln No. 9	9/30/1996	1994-1995 EIQs	Decrease	-6.62
EP-106	Mississippi Vertical – Kiln No. 2	7/31/2002	2000-2001 EIQs	Decrease	-6.62
EP-109	Mississippi Vertical – Kiln No. 5	8/3/2002	2000-2001 EIQs	Decrease	-6.70
EP-115	Mississippi Vertical – Kiln No. 11	4/30/2002	2000-2001 EIQs	Decrease	-6.64
				Subtotal:	-46.98
Increases in PM₁₀ Emissions From New Equipment Added During Contemporaneous Period					
EP-229A Permit No. 0897-018	Spray Dryer (Natural Gas) MRPCC No. 2	8/20/1997	2002-2003 EIQs	Increase	0.52
Permit No. 0897-017A	Underground Crushing System	11/3/1997	2002-2003 EIQs	Increase	0.85
EP-261 Permit No. 0797-002	Portable Conveyor Diesel Engine	7/1/1997	PTE	Increase	0.37
EP-222C Permit No. 0198-006	Hydrate Pneumatic System	1/8/1998	2002-2003 EIQs	Increase	0.02
Project No. 186-0001-033	"Bleed Off" Pneumatic Conveying System	12/22/1997	PTE	Increase	0.10
EP-A thru EP-G Project No. 1998-01-0120	Max Vac Cleanup System	1/22/1998	PTE	Increase	0.05
EP-203F Project No. 1998-03-021	Vacuum Receiver	4/16/1998	PTE	Increase	0.13
Permit No. 0898-019	Maerz Vertical Kiln	8/17/1998	2002-2003 EIQs	Increase	2.37
Permit No. 1198-020	Modification of Rotary Kiln Ball Pan Loadout Station	11/24/1998	2002-2003 EIQs	Increase	0.10
Permit No. 112001-005	Bagging Operation	11/6/2001	PTE	Increase	10.73
Project No. 2001-05-113	Railcar Cleaning System	7/12/2001	PTE	Increase	1.92
Permit No. 092001-014 (w/ amendments Permit Nos. 102002-008 & 102002-008A)	Single Shaft Vertical Kiln – SSK 1 and supporting equipment	9/19/2001	*	Increase	8.70
Project No. 2001-12-043	New Bagging System	3/12/2002	PTE	Increase	1.10
Project No. 2002-02-046	Storage Silo	3/21/2002	PTE	Increase	0.12
Project No. 2002-05-086	Process Heater	6/7/2002	PTE	Increase	0.06
Permit No. 052003-045	Lime Hydrator	5/2/2003	PTE	Increase	12.68
				Subtotal:	39.82
Estimated Increase in PM₁₀ Emissions From New Project					
<i>Project No. 2004-02-035</i>	<i>SSK 2 & 3 and New Supporting Equipment</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>18.18</i>
<i>Project No. 2004-02-035</i>	<i>Existing Equipment w/ Increased Utilization</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>9.04</i>
<i>Project No. 2004-02-035</i>	<i>Railcar Cleaning System</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>0</i>
<i>Project No. 2004-02-035</i>	<i>Product Unloading System</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>0</i>

<i>Project No. 2004-02-035</i>	<i>Hydrate Tailings Recovery System</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>0</i>
<i>Project No. 2004-02-035</i>	<i>Liquid Calcium Hydrate System</i>	<i>1/1/2005 (Est.)</i>	<i>PTE</i>	<i>Increase</i>	<i>0</i>
				Subtotal:	27.22
Actual PM₁₀ Emissions From Existing Equipment Proposed to Be Removed as a Result of Project (2 Year Average)					
EP-107	Mississippi Vertical – Kiln No. 3	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-4.38
EP-108	Mississippi Vertical – Kiln No. 4	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-5.67
EP-111	Mississippi Vertical – Kiln No. 7	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-6.04
EP-112	Mississippi Vertical – Kiln No. 8	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-6.56
EP-116	Mississippi Vertical – Kiln No. 12	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-5.80
EP-117	Mississippi Vertical – Kiln No. 13	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-5.70
EP-118	Mississippi Vertical – Kiln No. 14	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-4.42
EP-119	Mississippi Vertical – Kiln No. 15	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-4.36
EP-120	Mississippi Vertical – Kiln No. 16	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-4.72
EP-042	Surge Pile to MV Plant	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.37
EP-100	Reclaim Feeder Under MV Surge Pile	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.04
EP-101A	Reclaim Feeder under MV Surge Pile	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.04
EP-101B	Truck Loading	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.00
EP-101D	Truck Unloading	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.00
EP-101E	Rock Hopper	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.08
EP-101F	Screen	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.92
EP-102	Screenings Conveyor	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.01
EP-103A	Screenings Storage Pile	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.52
EP-103B	Screenings Truck Loading	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.00
EP-104A	Conveyor Transfer Station	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.08
EP-104B	Feeder Unloading	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.08
EP-124A	Forkings Bucket Elevator	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.10
EP-124B	Forkings Hopper	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.10
EP-125A	MVK Lime Hoppers	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-2.65
EP-125B	MV Lime Dump Hopper	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-5.30
EP-125C	MV Lime Pan Conveyor	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-5.30
EP-125D	MV Lime Roll Crusher	1/1/2005 (Est.)	2002-2003 EIQs	Decrease	-0.06
				Subtotal:	-63.30
Total PM₁₀ Emissions Remaining for Project After Completion of Netting Analysis:					-43.24

*Italicized items are revisions to the original construction permit.

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

Mississippi Lime Company
 Ste. Genevieve County, S29-30, T38N, R9E

1. **Superseding Condition**
 The conditions of this permit supersede all special conditions found in the previously issued construction permits (Permit Nos. 082002-004, 052001-003) and Special Condition No. 2 found in the previously issued construction permit (Permit No. 102002-008) from the Air Pollution Control Program (APCP).
2. Mississippi Lime Company will not construct the previously permitted equipment (listed below) without first obtaining a New Source Review (NSR) permit from the APCP.

<u>No.</u>	<u>Unit ID</u>	<u>Emission Unit Description</u>
1.	EP-142C	hydrate silo
2.	EP-142D	#1 truck loadout
3.	EP-142E	#2 hydrate silo
4.	EP-142F	#2 truck loadout
5.	EP-142G	rail loadout
6.	EP-092	railcar unloading
7.	EP-093	railcar elevator

3. **Shut Down of Existing Vertical Kilns and Equipment at Installation**
 - A. Mississippi Lime Company shall render the following emission units (listed below) inoperable before the date all shake down related activities for the new vertical kilns (EP-424 and EP-425) have been completed and the new kilns become operational. However, in no instance, may this shake down period for the new vertical kilns exceed 180 days from the initial start-up date of the new kilns without written approval from the APCP. The equipment listed below may not be operated after the new vertical kilns (EP-424 and EP-425) become operational without first obtaining a NSR permit from the APCP.

<u>No.</u>	<u>Unit ID</u>	<u>Emission Unit Description</u>
1.	EP-107	Mississippi Vertical – Kiln No. 3
2.	EP-108	Mississippi Vertical – Kiln No. 4
3.	EP-111	Mississippi Vertical – Kiln No. 7

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

4. EP-112 Mississippi Vertical – Kiln No. 8
 5. EP-116 Mississippi Vertical – Kiln No. 12
 6. EP-117 Mississippi Vertical – Kiln No. 13
 7. EP-118 Mississippi Vertical – Kiln No. 14
 8. EP-119 Mississippi Vertical – Kiln No. 15
 9. EP-120 Mississippi Vertical – Kiln No. 16
 10. EP-101D Truck Unloading
 11. EP-101E Rock Hopper
 12. EP-101F Screen
 13. EP-102 Screenings Conveyor
 14. EP-103A Screenings Storage Pile
 15. EP-103B Screenings Truck Loading
 16. EP-104A Conveyor Transfer Station
 17. EP-104B Feeder Unloading
 18. EP-124A Forkings Bucket Elevator
 19. EP-124B Forkings Hopper
 20. EP-125A MVK Lime Hoppers
 21. EP-125B MV Lime Dump Hopper
 22. EP-125C MV Lime Pan Conveyor
 23. EP-125D MV Lime Roll Crusher
- B. Mississippi Lime Company shall notify the APCP's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 15 days after the following events occur:
1. The date of initial start-up of the new vertical kilns (EP-424 and EP-425),
 2. The date the shake down period ends or 180 days after initial startup of the new vertical kilns, whichever is sooner,
 3. The date the equipment listed in Special Condition No. 2.A is rendered inoperable, and
 4. The date the new vertical kilns (EP-424 and EP-425) become operational.
4. Emission Limitation – NO_x, Existing Vertical Kiln SSK1 (EP-380)
- A. Mississippi Lime Company shall not discharge into the atmosphere from Mississippi Vertical Kiln SSK1 (EP-380), NO_x in excess of 44.24 tons in any consecutive 12-month period. This emission limitation shall not be applied to Mississippi Vertical Kiln SSK1 until the new vertical kilns (EP-424 and EP-425) become operational.
 - B. Mississippi Lime Company shall maintain an accurate record of emissions of NO_x emitted into the atmosphere from Mississippi Vertical Kiln SSK1 specified by Special Condition No. 4.A. Mississippi Lime Company shall

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The permittee is authorized to construct and operate subject to the following special conditions:

- record the monthly and running 12-month totals of NOx emissions from Mississippi Vertical Kiln SSK1 and shall use Attachment A, *Monthly NOx Emissions Tracking Record – Mississippi Vertical Kiln SSK1* or an equivalent form for this purpose.
- C. Mississippi Lime Company shall report to the APCP's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after the end of the month during which the records from Special Condition No. 4.B. indicate that Mississippi Vertical Kiln SSK1 exceeded the limitation of Special Condition No. 4.A. (no more than 44.24 tons per year of NOx emissions).
5. **New Equipment Information – Reporting Requirements**
Mississippi Lime Company shall submit to the APCP's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 on or before 15 days after the date the new vertical kilns (EP-424 and EP-425) become operational, the following information for each piece of new equipment being added under this permit.
- A. The manufacturer's name, model number and serial/company number and type of control device(s) associated with that piece of equipment,
- B. The maximum hourly design rating and date of manufacture of that piece of equipment, and
- C. Any other reporting requirements such as the capacities or equipment dimensions as specified in 40 CFR Part 60 for those pieces of equipment subject to NSPS Subpart OOO.
6. **Stack Testing Requirements – New Vertical Kilns**
- A. Mississippi Lime Company shall conduct performance testing on the new vertical kilns (EP-424 and EP-425) sufficient to quantify the emission rates of particulate matter less than ten microns in diameter (PM10), nitrogen oxides (NOx) and carbon monoxide (CO) from these sources. These tests shall be done in accordance with the test methods and procedures outlined below.
- B. A completed Proposed Test Plan (form enclosed) must be submitted to the APCP at least 30 days prior to the proposed test date any such performance tests are conducted so that a pretest meeting may be arranged, if necessary, and to assure that the test date is acceptable for an observer to be present. The Proposed Test Plan must be approved by the Director prior to conducting the above required emissions testing.
- C. Within 60 days of achieving the maximum production rate of the new vertical kiln, and in any case, no later than 180 days after initial start-up, the owner/operator shall have conducted the required performance tests.

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- D. Any required performance testing shall be conducted during periods of representative conditions at the maximum process/production rates or within ten percent (10%) of this maximum process/production rate, not to include periods of start-up, shutdown, or malfunction. However, if a new performance test is conducted at a production rate which is less than 90% of the maximum process/production rate of the equipment, then ten percent (10%) above the production rate at which the performance test was conducted shall become the new maximum allowable hourly production rate for the unit.
 - E. Any required performance tests shall be conducted, and data reduced, in accordance with the Environmental Protection Agency (EPA) approved testing methods listed below. An alternate test method, in place of one of the methods listed below, may be used if requested by the Mississippi Lime Company and approved by the Director.
 - 1. EPA Methods 201A and 202 for PM10,
 - 2. EPA Method 7 or 7E for NOx, and
 - 3. EPA Method 10 for CO.
 - F. Two (2) copies of a written report of the performance test results must be submitted to the Director within 90 days of completion of the performance testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required EPA Method for at least one sample run for each air pollutant tested.
 - G. No later than thirty (30) days after the performance test results are submitted, Mississippi Lime Company shall provide the Director with a report that establishes the potential emissions of each air pollutant tested in Special Conditions No. 6.A. This report shall report the potential emission rates in pounds per hour, tons per year and pounds per ton of lime produced from the new vertical kilns (EP-424 and EP-425) in order that the APCP may verify the potential emissions from this project.
 - H. The above time frames associated with this performance testing condition may be extended upon request of Mississippi Lime Company and approval by the Director.
7. New Source Performance Standard, Subpart OOO Testing Requirements for New Pre-Kiln Processing-Handling Equipment Added Under this Permit
A completed Proposed Test Plan (form enclosed) must be submitted to and approved by the APCP at least 30 days prior to conducting the required emission testing for the new pre-kiln processing handling equipment (listed below) that was added under this permit (as required in 40 CFR Part 60, Subpart OOO, *Standards of Performance for Nonmetallic Mineral Processing Plants*).

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

Alternately, Mississippi Lime Company may submit a justification for one or more of these new pieces of pre-kiln processing-handling equipment explaining why it is not subject to requirements of Subpart 000.

No.	Unit ID	Emission Unit Description	Expected Mfg. Date
1.	EP-405	Limestone Conveyor	2004-2005
2.	EP-406	3D Limestone Screen	2004-2005
3.	EP-415B	Screenings Conveyor	2004-2005
4.	EP-416	Screenings Bin	2004-2005
5.	EP-417	Screenings Bin Loadout	2004-2005
6.	EP-420	2D Limestone Screen	2004-2005
7.	EP-422A	Limestone Conveyor	2004-2005
8.	EP-422B	Limestone Conveyor	2004-2005

8. New Source Performance Standard, Subpart 000 Testing Requirements for Existing Pre-Kiln Processing-Handling Equipment with Increased Utilization Added Under this Permit

A completed Proposed Test Plan (form enclosed) must be submitted to and approved by the APCP at least 30 days prior to conducting the required emission testing for the existing pre-kiln processing handling equipment with increased utilization (listed below) that was added under this permit (as required in 40 CFR Part 60, Subpart 000, *Standards of Performance for Nonmetallic Mineral Processing Plants*). Alternately, Mississippi Lime Company may submit a justification for one or more of these new pieces of pre-kiln processing-handling equipment explaining why it is not subject to requirements of Subpart 000.

No.	Unit ID	Emission Unit Description	Mfg. Date
1.	EP-040	Conveyor No. 6	Pre 1982
2.	EP-342A	Limestone Conveyor	2002
3.	EP-275	VK-1 Limestone Conveyor	1998
4.	EP-276	VK-2 Limestone Conveyor	1998
5.	EP-277	VK-3 Limestone Conveyor	1998
6.	EP-378	Limestone Conveyor	2002

9. Fabric Filter Controls Usage Requirements – New & Existing Equipment

A. Mississippi Lime Company shall install fabric filters on the existing equipment (listed below) to control the PM10 emissions from these sources as specified in the permit application.

No.	Unit ID	Emission Unit Description
1.	EP-342D	Hopper/Feeder
2.	EP-371	Screen
3.	EP-377	Bucket Elevator
4.	EP-277	VK-3 Limestone Conveyor

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- 5. EP-378 Limestone Conveyor
- 6. EP-387 1D Lime Screen

B. Mississippi Lime Company shall install fabric filters on the new equipment added under this permit (listed below) to control the PM10 emissions from these sources as specified in the permit application.

No.	Unit ID	Emission Unit Description
1.	EP-405	Limestone Conveyor
2.	EP-406	3D Limestone Screen
3.	<u>EP-415B</u>	<u>Screenings Conveyor</u>
4.	EP-416	Screenings Bin
5.	EP-417	Screenings Bin Loadout
6.	<u>EP-420</u>	<u>2D Limestone Screen</u>
7.	EP-422A	Limestone Conveyor
8.	EP-422B	Limestone Conveyor
9.	<u>EP-423A</u>	<u>SSK 2 Load Hopper</u>
10.	EP-423B	SSK 3 Load Hopper
11.	EP-424	Single Shaft Vertical Kiln No. 2
12.	<u>EP-425</u>	<u>Single Shaft Vertical Kiln No. 3</u>
13.	EP-426A	Lime Weigh Feeder
14.	EP-426B	Lime Weigh Feeder
15.	<u>EP-426B1</u>	<u>Lime Screen</u>
16.	EP-426C1	Lime Screen
17.	EP-426C	Lime Weigh Feeder
18.	<u>EP-427A</u>	<u>Lime Conveyor</u>
19.	EP-427B	Lime Conveyor
20.	EP-427C	Lime Conveyor
21.	<u>EP-429A</u>	<u>Lime Storage Bin</u>
22.	EP-429A1	Vibrating Feeders
23.	EP-429B	Lime Storage Bin
24.	<u>EP-429B1</u>	<u>Vibrating Feeders</u>
25.	EP-429C	Lime Storage Bin
26.	EP-429C1	Vibrating Feeders
27.	<u>EP-430</u>	<u>Lime Conveyor</u>
28.	EP-430B	Lime Crushers
29.	<u>EP-431</u>	<u>Crushed Lime Silo</u>
30.	<u>EP-432</u>	<u>Crushed Lime Silo</u>
31.	EP-433	Lime Crushers
32.	EP-433B	SSK 2 Waste Lime Loadout
33.	<u>EP-433C</u>	<u>SSK 3 Waste Lime Loadout</u>
34.	EP-293B	VK-8 Waste Conveyor – Extension

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- 35. EP-381 Waste Conveyor
- 36. EP-434 Waste Bin
- 37. EP-435 Waste Bin Loadout

- C. Mississippi Lime Company shall enclose and vent all of the emission units associated with each of the new fabric filters specified in Special Conditions Nos. 11.A and 11.B to the fabric filters as specified in the permit application. The enclosure of the emissions units specified by Special Conditions Nos. 11.A and 11.B shall be constructed and maintained such that no visible emissions ($\leq 5\%$ opacity from the enclosure) are allowed to occur from these sources except through the gasses exiting from the fabric filters.
- D. The fabric filters specified in Special Conditions 11.A and 11.B must be in use at all times when that associated piece of equipment is in operation, and shall be operated and maintained in accordance with the manufacturer's specifications. The fabric filters shall be equipped with a gauge or meter, which indicates the pressure drop across the control device (where appropriate). These gauges or meters shall be located such that the DNR employees may easily observe them. Mississippi Lime Company shall propose to the ACP's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, alternate parameters and/or methods of determining the proper operation, on an on-going basis, for those fabric filters where a pressure drop gauge or meter is not appropriate. These proposed alternate parameters and/or methods must be reviewed by the ACP before being used.
- E. Mississippi Lime Company shall monitor and record the operating pressure drop across each fabric filter equipped with a gauge or meter (where appropriate) at least once every 24 hour period when this equipment is being operated or at the time periods specified in the operating permit. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
- F. Replacement filters for each type of fabric filter indicated by Special Conditions Nos. 11.A and 11.B shall be kept on hand at all times. The replacement filters shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
- G. Mississippi Lime Company shall maintain an operating and maintenance log for each fabric filter indicated by Special Conditions Nos. 11.A and 11.B which shall include the following:

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

1. Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
2. Maintenance activities, with inspection schedule, repair actions, and replacements, etc.