Lime Manufacturing Monitoring Checklist

Subpart S, Greenhouse Gas Reporting Program



What Must Be Monitored for Kilns?

If NOT using a CEMS, measure these parameters...

For determining the monthly emission factor for each type of lime produced:				
	Calcium oxide content for each lime type (metric tons CaO/metric ton lime), analyzed monthly.		Magnesium oxide content for each lime type (metric tons MgO/metric ton lime), analyzed monthly.	
For de kiln dı	· ·	each typ	pe of byproduct/waste sold (including lime	
	Calcium oxide content for each solid lime byproduct/waste type (metric tons CaO/metric ton lime), analyzed monthly.		Magnesium oxide content for each solid lime byproduct/waste type (metric tons MgO/metric ton lime), analyzed monthly.	
	termining annual CO_2 emissions from each ling lime kiln dust and scrubber sludge):	ch type of	f byproduct/waste that is not sold	
	Calcium oxide content for each unsold lime byproduct/waste type (metric tons CaO/metric ton lime), analyzed annually.		Annual weight or mass of unsold byproducts/wastes for each lime type (tons).	
	Magnesium oxide content for each unsold lime byproduct/waste type (metric tons MgO/metric ton lime), analyzed annually.			
For de	termining annual CO ₂ process emissions t	for all kil	ins:	
	Monthly weight or mass of each lime type produced (tons)		Monthly weight or mass of byproducts/waste sold (such as lime kiln dust) for each lime type (tons)	

For all kilns combined (i.e., for the whole facility):					
	Annual average emission factors for each calcined byproduct/waste sold		Beginning and end of year inventories for each lime product		
	Annual average emission factors for each lime product type produced		Beginning and end of year inventories for lime byproducts/wastes		
	Annual quantity (tons) of lime product sold		Annual average results of chemical composition analysis of each type of lime product produced and calcined byproduct/waste sold		
	Annual amount of CO ₂ captured for use in the onsite process (if applicable)		Annual lime production capacity (tons)		
If using a CEMS: In addition to the monitoring requirements under 40 CFR subpart C for the Tier 4 Calculation Methodology, measure these parameters for each kiln					
	Annual amount of lime product sold, by type (tons)		Annual amount of lime product not sold, by type (tons)		
	Annual amount of lime byproduct/waste sold, by type (tons)		Beginning and end of year inventories for each lime product		
	Annual amount of lime byproduct/waste not sold, by type (tons)		Beginning and end of year inventories for lime byproducts/wastes		

See also the information sheet for Lime Manufacturing at: https://www.epa.gov/ghgreporting/subpart-s-information-sheet.

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