Nitric Acid Production Monitoring Checklist



Final Rule: Mandatory Reporting of Greenhouse Gases

What Must Be Monitored for Each Nitric Acid Train?

Measure these parameters...

Month	nly:		
	Nitric acid production determined through sales records or by direct measurement using flow meters or weigh scales) (tons acid produced, 100 percent acid basis)		Nitric acid production during which N_2O abatement technology is operating determined through sales records or by direct measurement using flow meters or weigh scales) (tons acid produced, 100 percent acid basis)
Other	parameters:		
	Number of operating hours in the calendar year		Number of times missing data procedures were followed
	Annual Emission Fa	ctor l	Determination:
	ch nitric acid train, determine a site-specific en ly and whenever the nitric acid production pro		·
	Conduct the performance test under normal process operating conditions without using N_2O abatement technology		Conduct at least three one-hour test runs
For ea	nch test run:		
	Determine N_2O emissions from the absorber tail gas vent of the nitric acid train, using test methods specified in the rule		Measure the production rate (in tons acid produced per hour, 100 percent acid basis) using either direct measurement (e.g., flow meters) of production and concentration or existing procedures used for accounting purposes (e.g., tank level and acid concentration measurements)

Calculate the site-specific emission factor by measuring:					
	N_2O concentration (parts per million N_2O)		Volumetric flow rate of effluent gas (dry standard cubic feet/hr)		
	Determine Aba	atement	Efficiency:		
For ea	ch N_2O abatement technology, the destructing:	on efficier	ncy must be determined using one of the		
	The destruction efficiency specified by the manufacturer	/			
	Calculate the destruction efficiency using process knowledge				
	Conduct a performance test				
	so the information sheet for Nitric Acid epa.gov/ghgreporting/documents/pdf/in				

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