## Petrochemical Production Monitoring Checklist



Final Rule: Mandatory Reporting of Greenhouse Gases

What Must Be Monitored for Each Petrochemical Production Process Unit?

## If using a CEMS...

In addition to the monitoring requirements under 40 CFR subpart C for the Tier 3 (for  $CH_4$  and  $N_2O$  emissions) and Tier 4 Calculation Methodologies (for  $CO_2$ ) and the requirements under 40 CFR subpart Y for flares, measure these parameters...

the requirements under 40 CFR subpart Y for flares, measure these parameters				
	Annual quantity of each type of petrochemical (as defined in rule) produced from each process unit (metric tons)			
	If NOT using Measure the applicabl (unless otherwise noted	e para	meters monthly	
	Volume of each gaseous feedstock (standard cubic feet [scf])		Volume of each gaseous product (scf)	
	<ul> <li>Carbon content of each gaseous feedstock (kilograms [kg] carbon [C] per kg of feedstock) and molecular weight of each gaseous feedstock (kg/kg-mole), or</li> <li>Concentrations of each carbon-containing compound in each gaseous feedstock (kg-mole of component per kg-mole of feedstock)</li> </ul>		<ul> <li>Either of the following:</li> <li>Carbon content of each gaseous product, including streams containing CO<sub>2</sub> recovered for sale or use in another process (kg C per kg of product) and molecular weight of gaseous product (kg/kg-mole), or</li> <li>Concentrations of each carboncontaining compound in each gaseous product (kg-mole of component per kg-mole of product)</li> </ul>	
	Volume or mass of each liquid feedstock (gallons or kg)		Volume or mass of each liquid product (gallons or kg)	
	Either of the following:  Carbon content of each liquid		Either of the following:  • Carbon content of each liquid	

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	feedstock (kg C per gallon or kg of feedstock), or  Concentrations of each carbon-containing compound in each liquid feedstock (kg-mole/gallon)		product, including organic liquid wastes (kg C per gallon or kg of product), or  Concentrations of each carboncontaining compound in each liquid product (kg-mole/gallon)			
	Mass of each solid feedstock (kg)		Mass of each solid product (kg)			
	Carbon content of each solid feedstock (kg C per kg of feedstock)		Carbon content of each solid product (kg C per kg of product)			
	Annual quantity of each type of petrochemical produced from each process unit (metric tons)					
feedst	ou comply with the alternative to sar tock or product that is greater than 9 mpound, monthly carbon content m ular feedstock or product, but the fo	99.5 pe easure	ercent by volume or mass of a single ements are not necessary for that			
	The amount of time, and start and end times, that off-specification product was produced		If applicable, the date of any process change that reduced the composition to less than 99.5 percent			
	Calculated carbon content of the off- specification product		Monthly volume or mass of feedstock or product (scf, gallon, or kg)			
If using the optional combustion methodology for ethylene production processes: In addition to the monitoring requirements under 40 CFR subpart C for the Tier 3 and 4 Calculation Methodologies and under 40 CFR subpart Y for flares, measure these parameters						
	Annual quantity of ethylene produced from each ethylene process unit (metric tons)		Annual quantity of each feedstock used (metric tons)			
	o the information sheet for Petrochemical pa.gov/ghgreporting/documents/pdf/infos					

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