### Pt. 63, Subpt. UUU, Table 32

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For	For this limit	You shall install and operate this contin- uous monitoring system
	b. 300 ppmv of reduced sulfur com- pounds calculated as ppmv SO <sub>2</sub> (dry basis) at zero percent excess air if you use a reduction control system without incineration.	Continuous emission monitoring system to measure and record the hourly av- erage concentration of reduced sulfur and oxygen (O <sub>2</sub> ) emissions. Calculate the reduced sulfur emissions as SO <sub>2</sub> (dry basis) at zero percent excess air <i>Exception:</i> You can use an instrument having an air or SO <sub>2</sub> dilution and oxi- dation system to convert the reduced sulfur to SO <sub>2</sub> for continuously moni- toring and recording the concentration (dry basis) at zero percent excess air of the resultant SO <sub>2</sub> instead of the re- duced sulfur monitor. The monitor must include an oxygen monitor for correcting the data for excess oxygen.
<ol> <li>Option 1: Elect NSPS. Each new or ex- isting sulfur recovery unit (Claus or other type, regardless of size) not sub- ject to the NSPS for sulfur oxides in paragraph (a) (2) of 40 CFR 60.104.</li> </ol>	a. 250 ppmv (dry basis) of SO <sub>2</sub> at zero percent excess air if you use an oxi- dation or reduction control system fol- lowed by incineration.	Continuous emission monitoring system to measure and record the hourly av- erage concentration of SO <sub>2</sub> (dry basis), at zero percent excess air for each exhaust stack. This system must include an oxygen monitor for cor- recting the data for excess air.
	b. 300 ppmv of reduced sulfur com- pounds calculated as ppmv SO <sub>2</sub> (dry basis) at zero percent excess air if you use a reduction control system without incineration.	Continuous emission monitoring system to measure and record the hourly av- erage concentration of reduced sulfur and $O_2$ emissions for each exhausi- stack. Calculate the reduced sulfur emissions as SO <sub>2</sub> (dry basis), at zero percent excess air. <i>Exception:</i> You can use an instrument having an air or $O_2$ dilution and oxidation system to convert the reduced sulfur to SO <sub>2</sub> for continuously monitoring and recordinc
<ol> <li>Option 2: TRS limit. Each new or exist- ing sulfur recovery unit (Claus or other type, regardless of size) not subject to the NSPS for sulfur oxides in 40 CFR 60.104(a)(2).</li> </ol>	300 ppmv of total reduced sulfur (TRS) compounds, expressed as an equiva- lent SO <sub>2</sub> concentration (dry basis) at zero percent oxygen.	<ul> <li>continuous information (dry basis) at zero percent excess air of the resultant SO<sub>2</sub> instead of the reduced sulfur monitor. The monitor must include an oxygen monitor for correcting the data for excess oxygen.</li> <li>i. Continuous emission monitoring system to measure and record the hourly average concentration of TRS for each exhaust stack; this monitor must include an oxygen monitor for correcting the data for excess oxygen; or</li> <li>ii. Continuous parameter monitoring systems to measure and record the combustion zone temperature of each thermal incinerator and the oxygen content (percent, dry basis) in the vent stream of the incinerator.</li> </ul>

[67 FR 17773, Apr. 11, 2002, as amended at 70 FR 6942 and 6961, Feb. 9, 2005]

TABLE 32 TO SUBPART UUU OF PART 63—REQUIREMENTS FOR PERFORMANCE TESTS FOR HAP EMISSIONS FROM SULFUR RECOVERY UNITS NOT SUBJECT TO THE NEW SOURCE PERFORMANCE STANDARDS FOR SULFUR OXIDES

As stated in  $63.1568(\mathrm{b})(2)$  and (3), you shall meet each requirement in the following table that applies to you.

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For	You must	Using	According to these require- ments
1. Each new and existing sul- fur recovery unit: Option 1 (Elect NSPS).	Measure SO <sub>2</sub> concentration (for an oxidation or reduc- tion system followed by in- cineration) or the con- centration of reduced sulfur (or SO <sub>2</sub> if you use an in- strument to convert the re- duced sulfur to SO <sub>2</sub> ) for a reduction control system without incineration.	Data from continuous emis- sion monitoring system.	Collect SO <sub>2</sub> monitoring data every 15 minutes for 24 consecutive operating hours. Reduce the data to 1-hour averages computed from four or more data points equally spaced over each 1-hour period.
<ol> <li>Each new and existing sul- fur recovery unit: Option 2 (TRS limit).</li> </ol>	a. Select sampling port's loca- tion and the number of tra- verse ports.	Method 1 or 1A appendix A to part 60 of this chapter.	Sampling sites must be lo- cated at the outlet of the control device and prior to any releases to the atmos- phere.
	b. Determine velocity and vol- umetric flow rate.	Method 2, 2A, 2C, 2D, 2F, or 2G in appendix A to part 60 of this chapter, as applica- ble.	
	c. Conduct gas molecular weight analysis; obtain the oxygen concentration need- ed to correct the emission rate for excess air.	Method 3, 3A, or 3B in ap- pendix A to part 60 of this chapter, as applicable.	Take the samples simulta- neously with reduced sulfur or moisture samples.
	d. Measure moisture content of the stack gas.	Method 4 in appendix A to part 60 of this chapter.	Make your sampling time for each Method 4 sample equal to that for 4 Method 15 samples.
	e. Measure the concentration of TRS.	Method 15 or 15A in appen- dix A to part 60 of this chapter, as applicable.	If the cross-sectional area of the duct is less than 5 square meters (m <sup>2</sup> ) or 54 square feet, you must use the centroid of the cross section as the sampling point. If the cross-sectional area is 5 m <sup>2</sup> or more and the centroid is more than 1 meter (m) from the wall, your sampling point may be at a point no closer to the walls than 1 m or 39 inches. Your sampling rate must be at least 3 litters pe minute or 0.10 cubic feet per minute to ensure min- imum residence time for th sample inside the sample lines.
	f. Calculate the SO <sub>2</sub> equiva- lent for each run after cor- recting for moisture and ox- ygen.	The arithmetic average of the SO <sub>2</sub> equivalent for each sample during the run.	
	g. Correct the reduced sulfur samples to zero percent ex- cess air.sa	Equation 1 of § 63.1568.	
	h. Establish each operating limit in Table 30 of this sub- part that applies to you.	Data from the continuous pa- rameter monitoring system.	
	<ul> <li>Measure thermal inciner- ator: combustion zone tem- perature.</li> </ul>	Data from the continuous pa- rameter monitoring system.	Collect temperature moni- toring data every 15 min- utes during the entire pe- riod of the performance test; and determine and record the minimum hourly average temperature from all the readings.

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			According to these require
For	You must	Using	According to these require- ments
	<li>Measure thermal inciner- ator: oxygen concentration (percent, dry basis) in the vent stream.</li>	Data from the continuous pa- rameter monitoring system.	Collect oxygen concentration (percent, dry basis) data every 15 minutes during the entire period of the per- formance test; and deter- mine and record the min- imum hourly average per- cent excess oxygen con- centration.
	<ul> <li>If you use a continuous emission monitoring sys- tem, measure TRS con- centration.</li> </ul>	Data from continuous emis- sion monitoring system.	Collect TRS data every 15 minutes for 24 consecutive operating hours. Reduce the data to 1-hour averages computed from four or more data points equally spaced over each 1-hour period.

[67 FR 17773, Apr. 11, 2002, as amended at 70 FR 6942, Feb. 9, 2005]

#### TABLE 33 TO SUBPART UUU OF PART 63—INITIAL COMPLIANCE WITH HAP EMISSION LIMITS FOR SULFUR RECOVERY UNITS

As stated in 63.1568(b)(5), you shall meet each requirement in the following table that applies to you.

For	For the following emission limit	You have demonstrated initial compliance if
1. Each new or existing Claus sulfur re- covery unit part of a sulfur recovery plant of 20 long tons per day or more and subject to the NSPS for sulfur ox- ides in 40 CFR 60.104(a)(2).	a. 250 pmv (dry basis) SO <sub>2</sub> at zero per- cent excess air if you use an oxidation or reduction control system followed by incineration.	You have already conducted a perform- ance test to demonstrate initial compli- ance with the NSPS and each 12-hour rolling average concentration of SO <sub>2</sub> emissions measured by the contin- uous emission monitoring system is less than or equal to 250 ppmv (dry basis) at zero percent excess air. As part of the Notification of Compliance Status, you must certify that your vent meets the SO <sub>2</sub> limit. You are not re- quired to do another performance test to demonstrate initial compliance. You have already conducted a perform- ance evaluation to demonstrate initial compliance with the applicable per- formance specification. As part of your Notification of Compliance Status, you must certify that your continuous emis- sion monitoring system meets the ap- plicable requirements in §63.1572. You are not required to do another performance evaluation to dem- onstrate initial compliance.