

3.3 How must a CEMS be operated?

The minimum operating and data capture requirements for Part 75 CEM systems are summarized in Table 5. In general, the CEMS must be operated at all times when the unit is combusting fuel, except when the monitors are being calibrated, maintained, or repaired. As previously noted, each CEMS must be equipped with an automated DAHS, to record the emissions data and to reduce it to hourly averages¹⁶. To make an hourly average, at least one valid data point (generally, this means a valid one-minute average) is required in each 15-minute quadrant of the hour in which the unit operates.¹⁷ A single DAHS is usually sufficient to manage data for all the parameters that must be monitored.

Table 5: Minimum Operating and Data Capture Requirements for Part 75 CEMS

For this parameter...	The CEMS must complete one cycle of sampling and analyzing at least...	And record valid data at least...	And the DAHS must reduce the recorded data to...
SO ₂ , CO ₂ , O ₂ , NO _x , moisture, and flow rate	Once for each successive 15-minute period	Once for each 15-minute "quadrant" in each unit operating hour ¹⁶	Hourly averages
Opacity	Once for each successive 10-second period	Once for each successive averaging period	6-minute averages or other required averaging period