

## Question 16.6

### Topic: SO<sub>2</sub> Monitoring in Multiple Stacks or Ducts

**Question:** What are the requirements for SO<sub>2</sub> monitoring and reporting for a unit with multiple stacks or multiple ducts, when the monitoring systems are located in the ducts?

**Answer:** You must install and identify separate SO<sub>2</sub> and flow monitoring systems for each stack or duct in the monitoring plan. Use “MS” prefixes to define a multiple stack or duct configuration. Assign unique system and component ID numbers to the monitoring systems in each stack or duct. Each system should be tested and certified separately. Missing data substitution procedures apply separately to each stack or duct as well.

Do not report hourly SO<sub>2</sub> mass emissions on a unit basis. Instead, for each hour of unit operation, report, for each stack or duct, one record for SO<sub>2</sub> concentration, one record for flow rate, and one record for SO<sub>2</sub> mass emissions. Provide quarterly and cumulative SO<sub>2</sub> mass emissions (in tons) for each stack or duct as follows:

- (1) multiply each hourly mass emission rate reported for the stack or duct by the corresponding stack operating time;
- (2) take the sum of these products; and
- (3) convert to tons.

Report cumulative SO<sub>2</sub> mass emissions only for the individual stacks or ducts in the multiple stack/duct configuration. Do *not* report the combined SO<sub>2</sub> mass emissions for the affected unit.

**References:** § 75.16, Appendix F, Section 2.3

**History:** First published in March 1995, Update #5; revised in October 1999 Revised Manual; revised in 2013 Manual