

calibration and tracer gases should provide a recommended shelf life for each calibration gas cylinder over which the concentration does not change more than ± 2 percent from the certified value.

14.0 Pollution Prevention [Reserved]

15.0 Waste Management [Reserved]

16.0 References

1. 40 CFR part 60, Appendix A, EPA Method 1—Sample and velocity traverses for stationary sources.

2. 40 CFR part 60, Appendix A, EPA Method 2—Determination of stack gas velocity and volumetric flow rate.

3. 40 CFR part 60, Appendix A, EPA Method 3—Gas analysis for the determination of dry molecular weight.

4. 40 CFR part 60, Appendix A, EPA Method 4—Determination of moisture content in stack gases.

5. SEMI F15–93 Test Method for Enclosures Using Sulfur Hexafluoride Tracer Gas and Gas Chromatography.

6. Memorandum from John S. Seitz, Director, Office of Air Quality Planning and Standards, to EPA Regional Directors,

Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions, February 7, 1995. (That memorandum contains an attached technical document from Candace Sorrell, Emission Monitoring and Analysis Division, “Guidelines for Determining Capture Efficiency,” January 9, 1994).

7. Technical Systems Audit of Testing at Plant “C,” EPA–454/R–00–26, May 2000.

8. Material Safety Data Sheet for SF₆. Air Products and Chemicals, Inc. Website: www3.airproducts.com. October 2001.

17.0 Tables, Diagrams, Flowcharts, and Validation Data

TABLE 1.—SUMMARY OF CRITICAL PHYSICAL MEASUREMENTS FOR THE PRESS ENCLOSURE TESTING

Measurement	Measurement instrumentation	Measurement frequency	Measurement site
Tracer gas injection rate	Mass flow meter, volumetric flow meter or critical orifice.	Continuous	Injection manifolds (cylinder gas).
Tracer gas concentration at control device inlet.	Infrared Spectrometer or GC/ECD	Continuous (at least one reading per minute) for a minimum of 20 minutes.	Inlet duct to the control device (outlet duct of enclosure).
Volumetric air flow rate	EPA Methods 1, 2, 3, 4 (40 CFR part 60, Appendix A). • Velocity sensor (Manometer/Pitot tube). • Thermocouple • Midget Impinger sampler • Orsat or Fyrite	Each test run for velocity (minimum); Daily for moisture and molecular weight.	Inlet duct to the control device (outlet duct of enclosure).