

Question 8.6

Topic: Flow RATAs -- Traverse Points

Question: After alternative site verification with a directional probe traverse of 40 points (or 42 points for rectangular ducts) according to 40 CFR Part 60, Appendix A, Method 1, Section 11.5.2, should subsequent flow Relative Accuracy Test Audits (RATAs), which may use S-type probes, be based on Method 1, Section 11.2.2 traverse point criteria (e.g., 16 points) or the initial 40 (42) point criteria specified in Method 1, Section 11.5.2?

Answer: Either traverse point selection criterion specified in Method 1 (i.e., 16 points or 40 (42) points) is acceptable for subsequent flow RATAs. Part 75, Appendix A, Section 1.2 recommends the use of the flow profile procedures in 40 CFR Part 60, Appendix A, Test Method 1, Section 11.5.2 (which specifies the 40 (42) point traverse) to determine the acceptability of the potential flow monitor location. The potential flow monitor location is acceptable if the resultant angle is $\leq 20^\circ$ and the standard deviation is $\leq 10^\circ$.

Following an acceptable flow profile study, the flow monitor must pass all the required performance tests for certification and QA/QC, including flow RATAs. According to Part 75, Appendix A, Section 6.5.6, the traverse points for subsequent flow RATAs need only meet the requirements of Section 11.2.2 of Method 1, not Section 11.5.2.

References: 40 CFR Part 60, Appendix A (RM 1); 40 CFR Part 75, Appendix A, Section 6.5.6

History: First published in May 1993, Update #1; revised in October 2003 Revised Manual; revised in 2013 Manual