

**MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS
REGULATION II – PERMITS AND FEES**

**RULE 270
PERFORMANCE TESTS**

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MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS
REGULATION II – PERMITS AND FEES

RULE 270
PERFORMANCE TESTS

SECTION 100 – GENERAL

- 101 **PURPOSE:** To establish performance testing requirements for owners and operators of stationary sources.
- 102 **AUTHORITY TO REQUIRE TESTING:** Nothing in this rule shall be construed to abrogate the Control Officer's authority to require testing.
- 103 **SUPPORTIVE DATA FOR GOOD MAINTENANCE AND OPERATING PRACTICES:** Nothing in this rule shall be so construed as to prevent the utilization of measurements from emissions monitoring devices or techniques not designated as performance tests as evidence of compliance with applicable good maintenance and operating requirements.

SECTION 300 – STANDARDS

- 301 **PERFORMANCE TESTS REQUIRED:** Except as provided in Section 407 of this rule:
- 301.1 The applicable procedures and testing methods contained in the Arizona Testing Manual; 40 CFR 52, Appendices D and E; 40 CFR 60, Appendices A through F; and 40 CFR 61, Appendices B and C shall be used to determine compliance with the requirements established in this rule or contained in permits issued pursuant to this rule.
- 301.2 The opacity of visible emissions shall be determined by Reference Method 9 of the Arizona Testing Manual. A permit may specify a method other than Method 9 for determining the opacity of emissions from a particular emissions unit, if the method has been promulgated by the Administrator in 40 CFR 60, Appendix A.
- 301.3 The heat content of solid fuel shall be determined according to ASTM Method D-3176-89 (Practice for Ultimate Analysis of Coal and Coke) and ASTM Method D-2015-91 (Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter).
- 301.4 All except for ambient air monitoring and emissions testing required under Rule 360 and Rule 370 of these rules, alternative and equivalent test methods in any test plan submitted to the Control Officer may be approved by the Control Officer for the duration of that plan provided that the following three criteria are met:
- a. The alternative or equivalent test method measures the same chemical and physical characteristics as the test method it is intended to replace.
 - b. The alternative or equivalent test method has substantially the same or better reliability, accuracy, and precision as the test method it is intended to replace.

- c. Applicable quality assurance procedures are followed in accordance with the Arizona Testing Manual, 40 CFR 60, or other methods approved by the Control Officer.

SECTION 400 – ADMINISTRATIVE REQUIREMENTS

- 401 PERFORMANCE TESTS REQUIRED:** Within 60 days after a source subject to the permit requirements of this rule has achieved the capability to operate at its maximum production rate on a sustained basis but no later than 180 days after initial start-up of such source and at such other times as may be required by the Control Officer, the owner or operator of such source shall conduct performance tests and shall furnish the Control Officer with a written report of the results of the tests.
- 402 TESTING CRITERIA:** Performance tests shall be conducted and data reduced in accordance with the test method and procedures contained in the Arizona Testing Manual unless the Control Officer:
- 402.1** Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology,
 - 402.2** Approves the use of an equivalent method,
 - 402.3** Approves the use of an alternative method the results of which the Control Officer has determined to be adequate for indicating whether a specific source is in compliance, or
 - 402.4** Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Control Officer's satisfaction that the source is in compliance with the standard.
 - 402.5** Nothing in this rule shall be construed to abrogate the Control Officer's authority to require testing.
- 403 TESTING CONDITIONS:** Performance tests shall be conducted under such conditions as the Control Officer shall specify to the plant operator based on representative performance of the source or facility. The owner or operator shall make available to the Control Officer such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.
- 404 NOTICE OF TESTING:** The owner or operator of a permitted source shall provide the Control Officer two weeks prior notice of the performance test to afford the Control Officer the opportunity to have an observer present.
- 405 TESTING FACILITIES REQUIRED:** The owner or operator of a permitted source shall provide, or cause to be provided, performance testing facilities as follows:
- 405.1** Sampling ports adequate for test methods applicable to such source.
 - 405.2** Safe sampling platform(s).
 - 405.3** Safe access to sampling platforms(s).
 - 405.4** Utilities for sampling and testing equipment.

- 406 MINIMUM TESTING REQUIRED:** Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the owner or operator's control, compliance may, upon the Control Officer's approval, be determined using the arithmetic mean of the results of the two other runs. If the Control Officer is present, tests may only be stopped with the Control Officer's approval. If the Control Officer is not present, tests may only be stopped for good cause, which includes forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the operator's control. Termination of testing without good cause after the first run is commenced shall constitute a failure of the test.
- 407 COMPLIANCE WITH THE EMISSION LIMITS:** Except as provided in Section 408 of this rule, compliance with the emission limits established in this rule or as prescribed in permits issued pursuant to this rule shall be determined by the performance tests specified in this rule or in the permit.
- 408 ADDITIONAL TESTING:** In addition to performance tests specified in this rule, compliance with specific emission limits may be determined by:
- 408.1** Opacity tests.
 - 408.2** Emission limit compliance tests specifically designated as such in the rule establishing the emission limit to be complied with.
 - 408.3** Continuous emission monitoring, where applicable quality assurance procedures are followed and where it is designated in the permit or in an applicable requirement to show compliance.
 - 408.4** Nothing in this rule shall be so construed as to prevent the utilization of measurements from emissions monitoring devices or techniques not designated as performance tests as evidence of compliance with applicable good maintenance and operating requirements.