AUTHENTICATED
U.S. GOVERNMENT
INFORMATION
GPO



TABLE F–6 TO SUBPART F OF PART 53—ESTIMATED MASS CONCENTRATION MEASUREMENT OF $PM_{2.5}$ FOR IDEALIZED FINE AEROSOL SIZE DISTRIBUTION

| Particle Aerodynamic Diameter (μm) | Test Sampler | | | Ideal Sampler | | |
|---|---|---|---|---|---|---|
| | Fractional Sampling Effectiveness | Interval Mass Concentration (μg/m³) | Estimated Mass Concentration Measurement (μg/m³) | Fractional Sampling Effectiveness | Interval Mass Concentration (μg/m³) | Estimated Mass Concentration Measurement (μg/m³) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| <0.500 | 1.000 | 18.868 | | 1.000 | 18.868 | 18.868 |
| 0.625 | | 13.412 | | 0.999 | 13.412 | 13.399 |
| 0.750 | | 8.014 | | 0.998 | 8.014 | 7.998 |
| 0.875 | | 6.984 | | 0.997 | 6.984 | 6.963 |
| 1.000 | | 5.954 | | 0.995 | 5.954 | 5.924 |
| 1.125 | | 5.015 | | 0.991 | 5.015 | 4.970 |
| 1.250 | | 4.197 | | 0.987 | 4.197 | 4.142 |
| 1.375 | | 3.503 | | 0.980 | 3.503 | 3.433 |
| 1.500 | | 2.921 | | 0.969 | 2.921 | 2.830 |
| 1.675 | | 2.438 | | 0.954 | 2.438 | 2.326 |
| 1.750 | | 2.039 | | 0.932 | 2.039 | 1.900 |
| 1.875 | | 1.709 | | 0.899 | 1.709 | 1.536 |
| 2.000 | | 1.437 | | 0.854 | 1.437 | 1.227 |
| 2.125 | | 1.212 | | 0.791 | 1.212 | 0.959 |
| 2.250 | | 1.026 | | 0.707 | 1.026 | 0.725 |
| 2.375 | | 0.873 | | 0.602 | 0.873 | 0.526 |
| 2.500 | | 0.745 | | 0.480 | 0.745 | 0.358 |
| 2.625 | | 0.638 | | 0.351 | 0.638 | 0.224 |
| 2.750 | | 0.550 | | 0.230 | 0.550 | 0.127 |
| 2.875 | | 0.476 | | 0.133 | 0.476 | 0.063 |
| 3.000 | | 0.414 | | 0.067 | 0.414 | 0.028 |
| 3.125 | | 0.362 | | 0.030 | 0.362 | 0.011 |
| 3.250 | | 0.319 | | 0.012 | 0.319 | 0.004 |
| 3.375 | | 0.282 | | 0.004 | 0.282 | 0.001 |
| 3.500 | | 0.252 | | 0.001 | 0.252 | 0.000000 |
| 3.625 | | 0.226 | | 0.000000 | 0.226 | 0.000000 |
| 3.750 | | 0.204 | | 0.000000 | 0.204 | 0.000000 |
| 3.875 | | 0.185 | | 0.000000 | 0.185 | 0.000000 |
| 4.000 | | 0.170 | | 0.000000 | 0.170 | 0.000000 |
| 4.125 | | 0.157 | | 0.000000 | 0.157 | 0.000000 |
| 4.250 | | 0.146 | | 0.000000 | 0.146 | 0.000000 |
| 4.375 | | 0.136 | | 0.000000 | 0.136 | 0.000000 |
| 4.500 | | 0.129 | | 0.000000 | 0.129 | 0.000000 |
| 4.625 | | 0.122 | | 0.000000 | 0.122 | 0.000000 |
| 4.750 | | 0.117 | | 0.000000 | 0.117 | 0.000000 |
| 4.875 | | 0.112 | | 0.000000 | 0.112 | 0.000000 |
| 5.000 | | 0.108 | | 0.000000 | 0.108 | 0.000000 |
| 5.125 | | 0.105 | | 0.000000 | 0.105 | 0.000000 |
| 5.250 | | 0.102 | | 0.000000 | 0.102 | 0.000000 |
| 5.375 | | 0.100 | | 0.000000 | 0.100 | 0.000000 |
| 5.500 | | 0.098 | | 0.000000 | 0.098 | 0.000000 |
| 5.625 | | 0.097 | | 0.000000 | 0.097 | 0.000000 |
| 5.75 | | 0.096 | | 0.000000 | 0.096 | 0.000000 |
| | | $C_{sam(exp)}$= | | | $C_{ideal(exp)}$= | 78.539 |

FIGURE F–1 TO SUBPART F OF PART 53—DESIGNATION TESTING CHECKLIST

**DESIGNATION TESTING CHECKLIST FOR CLASS II**

Auditee _____ Auditor signature _____ Date _____

Compliance Status: Y = Yes N = No NA = Not applicable/Not available

| Verification | | | Verified by Direct Observation of Process or of Documented Evidence: Performance, Design or Application Spec. Corresponding to Sections of 40 CFR Part 53, Subparts E and F | Verification Comments (Includes documentation of who, what, where, when, why) (Doc. #, Rev. #, Rev. Date) |
|---|---|---|---|---|
| Y | N | NA | | |
| | | | **Subpart E: Performance Specification Tests** | |

| Compliance Status: Y = Yes N = No NA = Not applicable/Not available | | | | |
|---|---|---|---|---|
| Verification | | | Verified by Direct Observation of Process or of Documented Evidence: Performance, Design or Application Spec. Corresponding to Sections of 40 CFR Part 53, Subparts E and F | Verification Comments (Includes documentation of who, what, where, when, why) (Doc. #, Rev. #, Rev. Date) |
| Y | N | NA | | |
| | | | Evaluation completed according to Subpart E §53.50 to §53.56 | |
| | | | **Subpart E: Class I Sequential Tests** | |
| | | | Class II samplers that are also Class I (sequentialized) have passed the tests in §53.57 | |
| | | | **Subpart F: Performance Spec/Test** | |
| | | | Evaluation of Physical Characteristics of Clean Sampler - One of these tests must be performed:<br>§53.62 - Full Wind Tunnel<br>§53.63 - Inlet Aspiration<br>§53.64 - Static Fractionator | |
| | | | Evaluation of Physical Characteristics of Loaded Sampler<br>§53.65 Loading Test<br>One of the following tests must be performed for evaluation after loading: §53.62, §53.63, §53.64 | |
| | | | Evaluation of the Volatile Characteristics of the Class II Sampler §53.66 | |

APPENDIX A TO SUBPART F OF PART 53—REFERENCES

(1) Marple, V.A., K.L. Rubow, W. Turner, and J.D. Spangler, Low Flow Rate Sharp Cut Impactors for Indoor Air Sampling: Design and Calibration., JAPCA, 37: 1303-1307 (1987).

(2) Vanderpool, R.W. and K.L. Rubow, Generation of Large, Solid Calibration Aerosols, J. of Aer. Sci. and Tech., 9:65-69 (1988).

(3) Society of Automotive Engineers Aerospace Material Specification (SAE AMS) 2404C, Electroless Nickel Planting, SAE, 400 Commonwealth Drive, Warrendale PA-15096, Revised 7-1-84, pp. 1-6.

# PART 54—PRIOR NOTICE OF CITIZEN SUITS

Sec.

54.1 Purpose.
54.2 Service of notice.
54.3 Contents of notice.

AUTHORITY: Sec. 304 of the Clean Air Act, as amended (sec. 12, Pub. L. 91–604, 84 Stat. 1706).

SOURCE: 36 FR 23386, Dec. 9, 1971, unless otherwise noted.

## §54.1 Purpose.

Section 304 of the Clean Air Act, as amended, authorizes the commencement of civil actions to enforce the Act or to enforce certain requirements promulgated pursuant to the Act. The purpose of this part is to prescribe procedures governing the giving of notices required by subsection 304(b) of the Act (sec. 12, Pub. L. 91–604; 84 Stat. 1706) as a prerequisite to the commencement of such actions.

## §54.2 Service of notice.

(a) Notice to Administrator: Service of notice given to the Administrator under this part shall be accomplished by certified mail addressed to the Administrator, Environmental Protection Agency, Washington, DC 20460. Where notice relates to violation of an emission standard or limitation or to violation of an order issued with respect to an emission standard or limitation, a copy of such notice shall be mailed to the Regional Administrator of the Environmental Protection Agency for the Region in which such violation is alleged to have occurred.