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## 40 C.F.R. § 53.3

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### General requirements for an equivalent method determination.

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(a) *Manual methods.* A manual Federal equivalent method (FEM) must have been shown in accordance with this part to satisfy the applicable requirements specified in this subpart A and subpart C of this part. In addition, a PM sampler associated with a manual method for PM<sub>10</sub>, PM<sub>2.5</sub>, or PM<sub>10-2.5</sub> must have been shown in accordance with this part to satisfy the following additional requirements, as applicable:

(1) *PM<sub>10</sub>.* A PM<sub>10</sub> sampler associated with a manual method for PM<sub>10</sub> must satisfy the requirements of subpart D of this part.

(2) *PM<sub>2.5</sub> Class I.* A PM<sub>2.5</sub> Class I FEM sampler must also satisfy all requirements of subpart E of this part, which shall include appropriate demonstration that each and every deviation or modification from the FRM sampler specifications does not significantly alter the performance of the sampler.

(3) *PM<sub>2.5</sub> Class II.* (i) A PM<sub>2.5</sub> Class II FEM sampler must also satisfy the applicable requirements of subparts E and F of this part or the alternative requirements in paragraph (a)(3)(ii) of this section.

(ii) In lieu of the applicable requirements specified for Class II PM<sub>2.5</sub> methods in subparts C and F of this part, a Class II PM<sub>2.5</sub> FEM sampler may alternatively meet the applicable requirements in paragraphs (b)(3)(i) through (iii) of this section and the testing, performance, and comparability requirements specified for Class III equivalent methods for PM<sub>2.5</sub> in subpart C of this part.

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