

Table 12-1 Instruments and Devices Requiring Calibration and Certifications.

Criteria	Acceptable Range	40 CFR Reference
<i>Verification/Calibration of devices in sampler/analyzer/laboratory against an authoritative standard</i>		
Barometric Pressure	± 10 mm Hg	Part 50, App.L, Sec 9.3
Temperature	± 2° C of standard	Part 50, App.L, Sec 9.3
Flow Rate	± 2% of transfer standard	Part 50, App.L, Sec 9.2
Design Flow Rate Adjustment	± 2% of design flow rate	Part 50, App.L, Sec 9.2.6
Clock/timer Verification	1 min/mo	Part 50, App.L, Sec 7.4
Mirobalance Calibration	Readability 1 µg Repeatability 1 µg	Part 50, App.L, Sec 8.1
<i>Verification/Calibration of devices in shelter or lab against an authoritative standard</i>		
Lab Temperature	± 2° C	not described
Lab Humidity	± 2%	not described
Mirobalance Calibration	Readability 1 µg Repeatability 1 µg	Part 50, App.L, Sec 8.1
<i>Verification/calibration standards requiring certification annually</i>		
Standard Reference Photometer (SRP)	±4% or ±4 ppb (whichever greater) RSD of six slopes ≤ 3.7%	not described
SRP recertification to local primary standard	Std. Dev. of 6 intercepts 1.5 New slope = ± 0.05% of previous	not described
Flow rate	± 2% of NIST –Traceable Standard	Part 50, App L Sec 9.2
Pressure	± 1 mm Hg resolution, ± 1 mm Hg accuracy	not described
Temperature	± 0.1° C of standard resolution, ± 0.5° C 1 mm Hg accuracy	not described
Gravimetric Standards	0.025 mg	not described