- 13.0 What Specifications Does a COMS Have To Meet for Certification?
- A COMS must meet the following design, manufacturer's performance, and field audit performance specifications:
- 13.1 Design Specifications. The opacity monitoring equipment must comply with the design specifications of ASTM D 6216-98.
- 13.2 Manufacturer's Performance Specifications. The opacity monitor must comply with the manufacturer's performance specifications of ASTM D 6216-98.
- 13.3 Field Audit Performance Specifications. The installed COMS must comply with the following performance specifications:
- (1) Optical Alignment. Objectively indicate proper alignment relative to reference marks (e.g., bull's-eye) or conditions.
- (2) Calibration Error. The calibration error must be ≤ 3 percent opacity for each of the three calibration attenuators.
- (3) System Response Time. The COMS upscale and downscale response times must be ≤ 10 seconds as measured at the COMS data recorder.
- (4) Averaging Period Calculation and Recording. The COMS data recorder must average and record each calibration attenuator value to within ± 2 percent opacity of the certified value of the attenuator.
- (5) Operational Test Period. The COMS must be able to measure and record opacity and to perform daily calibration drift assessments for 168 hours without unscheduled maintenance, repair, or adjustment.
- (6) Zero and Upscale Calibration Drift Error. The COMS zero and upscale calibration drift error must not exceed 2 percent opacity over a 24 hour period.