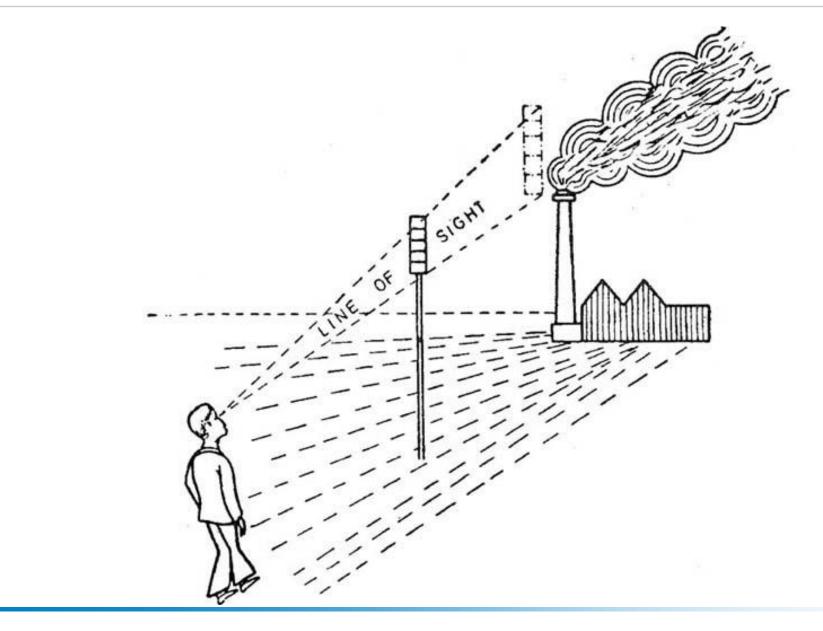
PM CEMS - REGULATOR'S PERSPECTIVE

Sankar Kannan 05-07-2017 M.P. Pollution Control Board Online Real-time Monitoring Technology



HISTORY

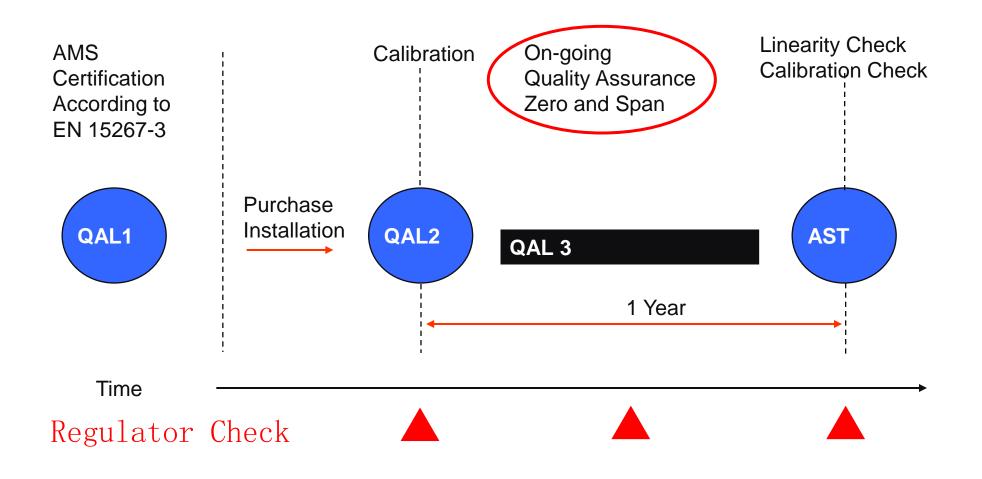




Guideline EN 14181



: Overview on the QAL "EN14181" systematic



- Installation Verification
- Periodic Check
- Look for fuel changes
- Look for interruption of data
- Verify for Calibration report availability after repairs



- Dust Monitor Mounting location
- Selection of measuring technology
- Reference method location
- Calibration Data
- Recording of calibration coefficients

Date

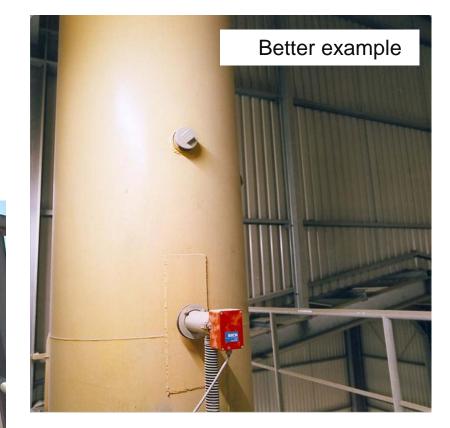
GRAVIMETRIC MEASUREMENT



Requirements:

- Distance to the dust monitoring level at least 500 mm above in flow direction
- No mutual influencing of dust meter and calibrating device.







EN 15267 - Performance criteria and test procedures

Maintenance intervals

- The maintenance interval shall be derived from the shortest interval between the requisite maintenance work operations. This also includes manual zero and span point checks.
- The maintenance interval is important for QAL3 according to EN 14181:
 It defines the time span between QAL3 readings
 Field test duration
 Maximum allowable
 Maximum allowable
 Maximum allowable
 Maximum allowable
 1 month
 3 months
 6 months
 12 months
 24 months
 12 months

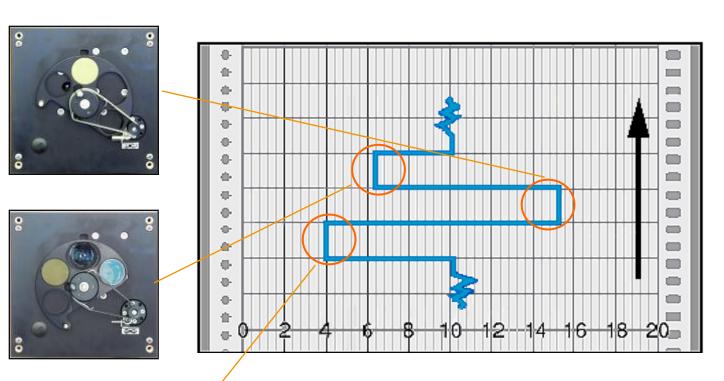
TRANSMISSIOMETERY AUTOMATIC CONTROL CYCLE

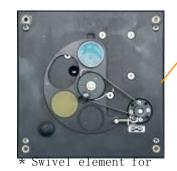


Control value measurement

Contamination measurement

Zero point measurement





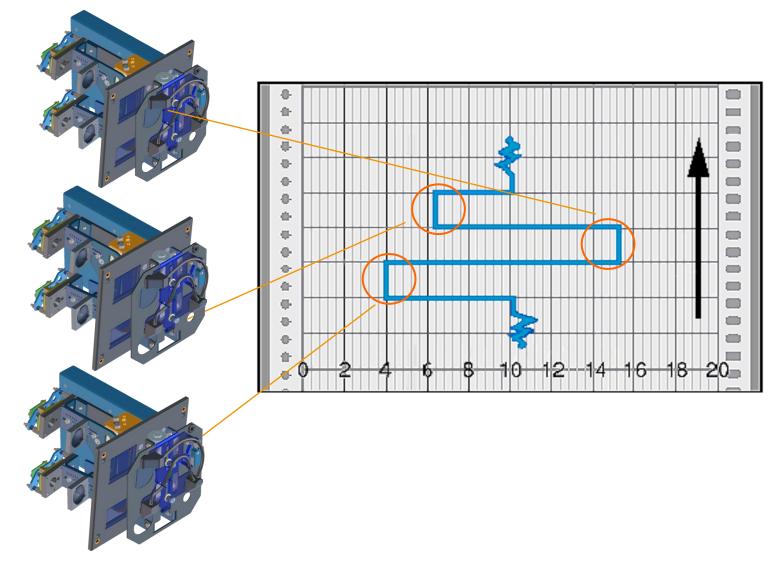
automatic control



Control value measurement

Contamination measurement

Zero point measurement



MANY THANKS FOR THE ATTENTION

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Name | Confidential