



Conference

Next presentation at 12.00

EN14181 accreditation

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UKAS Accreditation for BS EN 14181

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*Delivering
Confidence*



Contents

- Background
- UKAS Pilot Project
- Assessment Process and Requirements
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What is BS EN 14181?

- European Standard provides a quality assurance procedure for continuous emission monitoring systems (CEMS) on processes falling under both the Waste Incineration (WID) and Large Combustion Plant (LCPD) directives.
- Essentially this standard consists of three fundamental steps¹





Problems with BS EN 14181

- Actual implementation can be very complex
- EA concerned with the varying quality of work performed
- Extreme case when a perfectly operational CEMS had been incorrectly condemned
- No third party verification of competence



Accreditation for BS EN 14181

- EA contacted UKAS in 2007 to discuss the possibility of accreditation for BS EN 14181
- EA wanted to introduce more consistency into BS EN 14181 activities
- Discussions between UKAS, EA and STA to agree approach



Pilot Project

- Why not an 'Extension to Scope'?
- Used for development of new areas of accreditation
- Tests assessment criteria
- Involves live assessment of activities with pilot project participants
- Criteria reviewed throughout the project

Timetable of Project

- 31 March 2009 – Applications deadline (15 received)
- September 2009 – Commencement of Assessments
- June 2010 – Pilot Assessments complete
- September 2010 – Improvement Action (IA) Evidence submitted
- November 2010 – Final review of IA evidence
- December 2010 – EA PT scheme
- December 2010 – UKAS Decision review process
- **10 January 2011** - Grant of accreditation for all participants to BS EN 14181



UKAS Assessment Structure

2 separate visits

- 1st visit – before campaign: office visit to assess the project planning, contract review, client liaison etc
- 2nd visit – after campaign: office visit to review site data records, final report and derived calibration function(s)



Requirements to Gain Accreditation

- Robust Contract Review Process
- Reference Method Accreditation to ISO/IEC 17025 and MCERTS for all paired measurement tests
- Clear and concise Record Keeping
- Successful Derivation/Verification of the calibration function



What Was Assessed

UKAS assessed the following (1 of 2):

- Documented procedures to carry out and manage all aspects of BS EN 14181 work
- Site specific protocol, project planning, set up and customer communication process
- On site records including collected CEMS data



What Was Assessed (cont'd)

UKAS assessed the following (2 of 2):

- Reports and Validation of spreadsheets and calculations – independent check
- Staff training records and authorisation
- Internal audit programme (on-going supervision)
- Evidence of independence and/or impartiality from instrument supplier and/or manufacturer



Common Areas that Required Improvement

- Staff Training records and authorisation
- Internal audit scheduling
- Reporting content
- Site specific Protocol content
- Spreadsheet validation

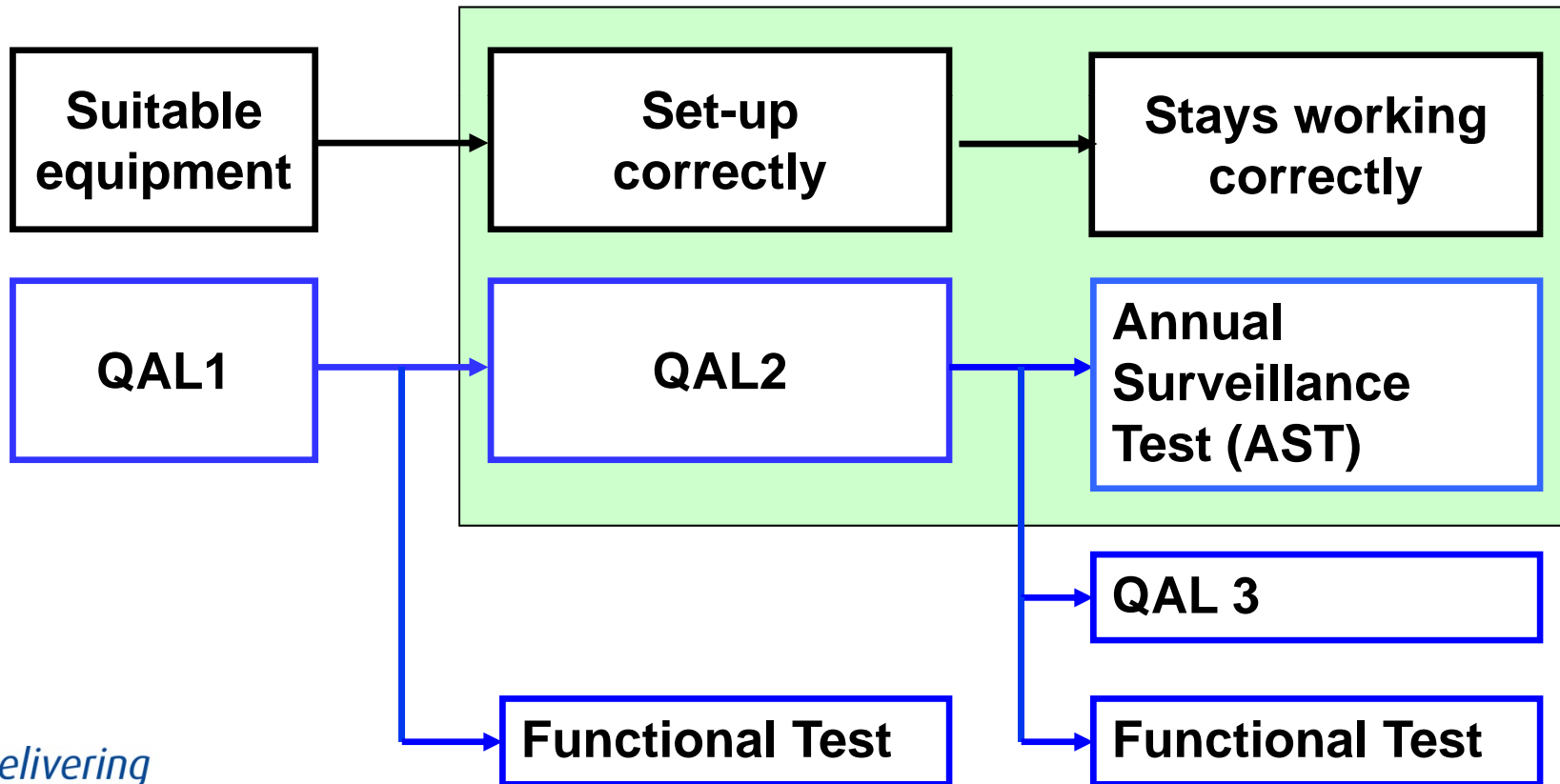


BS EN 14181 Mandatory Accreditation

- Accreditation is now mandatory for all BS EN 14181 work from 10 January 2011
- Existing work (processed in 2010) can be reported and accepted as unaccredited – transition period
- From **01 May 2011** the Environment Agency will not be accepting test reports for BS EN 14181 (QAL2 and AST) that are not accredited

What is covered under the UKAS Accreditation to BS EN 14181?

- Accreditation covers the testing aspects of BS EN 14181, namely the QAL2 and AST components (Green box).





What is not Accredited

The following activities are not formally covered under accreditation:

- Implementation and suitability of QAL 1
- Carrying out the CEMS Functional Test (including inspection activity)
- Implementation and on-going management of QAL 3

Accredited QAL2 and AST final reports will include statements regarding details of the above



UKAS Schedule – What to Look For

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Stack emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in house procedure XXX to meet the requirements of BS EN 14181:2004, Environment Agency MID 14181 and other requirements of the Environment Agency (MCERTS) Performance Standard and DD CEN/TS 15675:2007 / BS EN 15259:2007	A, B
END			



Who is Accredited?

- 0002N – NPL
- 0230N – TUV NEL
- 1015N – ESG (Scientifics)
- 1181N – NWSS (AES)
- 1567N – Atkins
- 1709N – RPS
- 1783N – ALcontrol
- 2065N – PB Power
- 2200N – EON
- 2338N – CESEI
- 2499N – ECL
- 2515N – Protea
- 2522N – Envirocare
- 2642N – Littlebrook
- 4279 – Catalyst



What does UKAS Accreditation offer

Accreditation ensures that the organisation (1 of 2):

- Is impartial
- Has the appropriate resource and procedures
- Has robust processes to ensure customer requirements and expectations are met
- Has a formal complaints process
- Performs all its work in a safe manner
- Employs technically competent staff holding the correct MCERTS qualifications



What does UKAS Accreditation offer cont'd

Accreditation ensures that the organisation (2 of 2):

- Has an internal training and on-going staff supervision programme
- Uses suitable and calibrated equipment
- Ensures all its measurements are traceable
- Participates in the external independent (EA) proficiency testing scheme (successfully)
- Is subjected to independent regular UKAS assessments (usually annually)



Additional Areas of Accreditation

UKAS is now offering accreditation for the following activities under ISO/IEC 17025 to BS EN 15267-3:2007 on CEMS

- Test of Linearity
- Zero Test
- Span Test
- Response time
- Leak test



Applying for accreditation to BS EN 14181?

- UKAS AC4 application form (testing lab)
- ~6-9 month lead time for current ISO/IEC 17025 and MCERTS accredited organisations
- ~12-15 month lead time for completely new applicants
- Will require two visits as in the pilot (total 2.5 days for existing and ~5.0 for new)
- Ongoing UKAS effort of a minimum of 0.5 to 1.0 days per year (depending on size/scope of laboratory)
- Contact UKAS/Rohit Chirodian for more information

QUESTIONS

