

# MCERTS Stack Emissions Monitoring and Consultancy

Accurate monitoring and characterisation of stack emissions is important for regulatory and process control requirements. NPL provides a professional and competitively priced MCERTS/UKAS-accredited stack monitoring and compliance testing service utilising industry standard techniques.

Key operational features of the service include:

- ▶ Quantification of emissions in accordance with EPR (formerly IPPC), IED, LCP and WI regulations
- ▶ One of the largest shares in the market for the validation/calibration of continuous emission monitors (CEMS) to BS EN 14181 and BS EN 13284-2, including QAL2, AST and Linearity Testing
- ▶ MCERTS accreditation to EN 15267-3 to meet the requirements of performance standards and test procedures for continuous emission monitoring systems (gaseous, particulate and flow-rate) in the field
- ▶ Advice on emission abatement, process optimisation and state-of-the-art process monitoring techniques
- ▶ Process efficiency trials (commissioning and optimisation)
- ▶ Turbine and burner optimisation
- ▶ Comprehensive data analysis interpretation and reporting
- ▶ Training and guidance for operators in relation to MCERTS requirements, BS EN 14181 requirements, permitting queries and operator monitoring assessment (OMA)
- ▶ UKAS-accredited analytical laboratories for stack testing samples



## Stack Emissions Monitoring and Consultancy

NPL provides a competitively priced MCERTS accredited stack monitoring and compliance testing service utilising industry standards techniques. This service is based on sophisticated, self-contained mobile laboratories with a range of on-site measurement capabilities.

NPL has a wealth of experience in emissions monitoring and uses this experience in providing consultancy to plant operators, regulators, instrument manufacturers and the broader stack testing community.



Our consultants, most of whom are qualified to MCERTS Level 2 with all Technical Endorsements, have experience across a wide range of industry sectors, including petrochemical complexes, incinerators, gas turbines and boilers, power generation, pharmaceutical and Energy from Waste.

NPL has nationwide coverage in the UK from two fully resourced facilities, and has a proven track record of monitoring in Europe, Scandinavia and Asia.

NPL provides clients with assurance that the monitoring and data provided is accurate and reliable, and the reports have all the required information to meet all the MCERTS requirements.

NPL has a proven safety record within the industry, working closely with clients to ensure monitoring is performed safely and in compliance with all current legislation. NPL has CCSNG and UVDB verify certification.

Testing Capability	Method
Quality Assurance of CEM Systems	BS EN 14181 and BS EN 13284-2
MCERTS Field Testing of CEM Type Analyser	BS EN 15267-3
FTIR (Flexible Scope) including HCl, NH <sub>3</sub> , SO <sub>2</sub> and VOCs	TGN M22
Particle size distribution	BS EN ISO 23210:2009
Nitrous Oxide (N <sub>2</sub> O)	BS EN ISO 21258:2010
Homogeneity Testing	BS EN 15259
Concentration and Mass Emissions of Particulates	BS EN 13284-1 BS ISO 9096
Flue Gas Velocity & Temperature Survey	BS EN 13284-1
Metals and Mercury	BS EN 14385 BS EN 13211
Dioxins and Furans	BS EN 1948 parts 1-3
VOCs (Total and speciated)	BS EN 12619 PD CEN/TS 13649:2014
NO <sub>x</sub> , SO <sub>x</sub> , O <sub>2</sub> , CO, CO <sub>2</sub>	To CEN and ISO Standards
H <sub>2</sub> O	BS EN 14790
HCl	BS EN 1911
HF	BS ISO 15713:2007
NH <sub>3</sub>	BS EN 14791 US EPA Method 26 – 26A
Trace micro pollutants such as PAHs and PCBs	BS ISO 11338-1 BS EN 1948 part 4
Any other pollutants available on request	

NPL has extensive knowledge and is accredited for the requirements of BS EN 14181, BS EN 13284-2 and BS EN 15267-3. We offer a complete package from providing the functional tests audits, auditing the sites records, to the testing which involves liaising with the client on-site, and finally the reporting.

NPL offers much more than stack testing. For example we have close links with the industry, trade association and regulators, and represent UK interests at CEN, influencing existing and developing new methods along with validating European and National standards.

Contact details	Further information
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