

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Shield On-Site Services Limited</h3> <p>Issue No: 029    Issue date: 13 March 2012</p>	
	<p>AMP Technology Centre Advanced Manufacturing Park Brunel Way Rotherham South Yorkshire S60 5WG</p>	<p>Contact: Mr D Parry Tel: +44 (0)845 0349360 Fax: +44 (0)845 0349370 E-Mail: dan.parry@shieldon-siteservices.com Website: www.shieldon-siteservices.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> AMP Technology Centre Advanced Manufacturing Park Brunel Way Rotherham S60 5WG</p> <p><b>Local contact</b> Mr D Parry Tel: +44 (0)845 0349360 Fax: +44 (0)845 0349370 Email: dan.parry@shieldon-siteservices.com Website: www.shieldon-siteservices.com</p>	<p><b>Support Functions:</b> Quality System Quality Audit Administration</p> <p><b>Sampling and Testing:</b> Stack Emissions Testing Physical Testing Effluent Waters Sampling</p>	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Sites requiring Stack Emissions Testing	Stack Emissions Testing	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Filter Papers and rinse solutions	<u>Physical Testing</u>		
	Weighing of Particulate Matter	BS EN 13284 - 1:2002 LPM 07 and LPM 08	A
		BS ISO 9096:2003 LPM 07 and LPM 08	A
Effluent Waters	Weight of Particulate Matter <10 micron (PM <sub>10</sub> )	USEPA 201A LPM 07	A
	Spot effluent samples	BS 6068 (TPM/31)	B
Testing of Stack emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, International and other recognised standards using documented In-House work instructions to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007	
	Water Vapour	USEPA Method 4 (TPM/02 and 02a)	B
	Hydrogen Chloride	USEPA Method 26 and 26a (TPM/08a, 08b and 08c)	B
	Mercury	USEPA Method 29 (TPM/06)	B
	Metals	USEPA Method 29 (TPM/06)	B
	Dioxins & Furans	USEPA Method 23 (TPM/10)	B
	Hydrogen Fluoride	USEPA Method 26 and 26a (TPM/08a, 08b and 08c)	B
	Ammonia	USEPA Method 26 and 26a (TPM/21)	B
	Particulate Matter <10 micron (PM <sub>10</sub> )	USEPA Method 201A (TPM/22)	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> (cont'd)	National, International and other recognised standards using documented In-House work instructions to meet the requirements of DD CEN/TS 15675:2007/ BS EN 15259:2007 (cont'd)	
	Fibre concentration by fibre count	BS 6069-4.2:1991 (TPM/03)	B
	<u>Sampling and On-Line analysis</u>		
	Carbon Dioxide (0 - 50%)	ISO 12039:2001 (TPM/15)	B
	Total Gaseous Organic Carbon (TOC/VOC) (0 to 10%)	In house method using an FID (TPM/13)	B
	Nitrous Oxide	Based on ISO 10849: 1996 (TPM/16 - NDIR analyser)	B
Testing of Stack Emissions to Atmosphere	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and DD CEN/TS 15675:2007/ BS EN 15259:2007	
	Total Particulate matter (0 to 50 mg/m <sup>3</sup> )	BS EN 13284-1:2002 (TPM/04)	B
	Total Particulate matter (20 to 1000 mg/m <sup>3</sup> )	BS ISO 9096:2003 (TPM/05)	B
	Hydrogen Chloride	BS EN 1911:2010 (TPM/09)	B
	Hydrogen Fluoride	BS ISO 15713:2006 (TPM/38)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and DD CEN/TS 15675:2007/ BS EN 15259:2007 (cont'd)	
	Halides and Halogens: Hydrogen Bromide Chlorine Bromine	USEPA Method 26 and 26a (TPM/08a, 08b and 08c)	B
	Sulphur Dioxide	BS EN 14791:2005 (TPM/42)	B
	Hydrogen Sulphide	USEPA Method 11 (TPM/30)	B
	Sulphur Trioxide	USEPA Method 8 (TPM/19)	B
	Metals	BS EN 14385:2004 (TPM/06b)	B
	Mercury	BS EN 13211:2001 (TPM/07)	B
	Dioxins and Furans	BS EN 1948-1:2006 (TPM/11b)	B
	Dioxin-like Polychlorinated Biphenyls (PCBs)	BS EN 1948-1:2006 (TPM/11b)	B
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1: 2003 (TPM/20b)	B
	Formaldehyde	USEPA 316 (TPM/29)	B
	Ammonia	BS EN 14791:2005 (TPM/45 and TPM/45a)	B



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Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and DD CEN/TS 15675:2007/ BS EN 15259:2007 (cont'd)	
	Speciated VOC's - activated carbon and solvent desorption method (Dry stack only)	BS EN 13649:2002 (TPM/14a)	B
	Individual Organic Compounds (Tubes other than activated Carbon):  Aliphatic Amines Aromatic Amines Amides Aldehydes Benzene Styrene 1-3 Butadiene Mercaptans Phenols Carboxylic Acid (Dry stack only)	BS EN 13649: 2002 (TPM/14a)	B
	Organic isocyanates (isokinetic sampling onto a filter coated with 1-(2-pyridyl)piperazine): Toluene Diisocyanate (TDI) Methylenediphenyl Diisocyanate (MDI) Hexamethylene Diisocyanate (HDI) Isophorone Diisocyanate (IPDI)	US EPA CTM 036 (TPM/52)	B



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Testing of Stack emissions to Atmosphere	<u>Sampling and On-Line analysis</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and DD CEN/TS 15675:2007 / BS EN 15259:2007	
	Pressure, Temperature and Velocity	BS EN 13284-1:2002 ISO 10780:1994 BS ISO 9096:2003 (TPM/01)	B
	Water Vapour	BS EN 14790: 2005 (TPM/37)	B
	Carbon Monoxide*	BS EN 15058:2006 (TPM/40 - NDIR analyser)	B
	Carbon Dioxide*	ISO 12039:2001 (TPM/15 - NDIR analyser)	B
	Sulphur Dioxide	EA TGN M21 (TPM/144)	B
	Oxides of Nitrogen*	BS EN 14792:2004 (TPM/41 - Chemiluminescent analyser)	B
	Nitrogen Monoxide*	BS EN 14792:2005 (TPM/41 - Validated NDIR analyser)	B
	Oxygen*	BS EN 14789:2005 (TPM/39 - Paramagnetic analyser) (TPM/39 - Validated Zirconium cell analyser)	B
	Total Gaseous Organic* Carbon (TOC/VOC) (20 - 500 mg/m <sup>3</sup> )	BS EN 13526:2002 (TPM/13 - FID analyser)	B
Total Gaseous Organic* Carbon (TOC/VOC) (0 - 20 mg/m <sup>3</sup> )	BS EN 12619:1999 (TPM/13 - FID analyser)	B	



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Stack Emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in house procedures TPM 47, TPM 48, QD 36, QD 37 and QD 38 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			

\* - The scale range of the analyser used for this test must be that detailed on its current MCERTS certificate or a range validated by the organisation to meet MCERTS requirements.