Schedule of Accreditation

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United Kingdom Accreditation Service

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Accredited to ISO/IEC 17025:2017

Sellafield Ltd

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Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address B229 Analytical Services Sellafield Cumbria CA20 1PG	**Local contact** Ms Jacqueline Batty Tel: +44 (0)19467 88364 Fax: +44 (0)19467 75154 E-Mail: jacqueline.batty@sellafieldsites.com Website: www.sellafieldsites.com	**Testing:** Radiochemical Chemical	A
Address B164 Analytical Services Sellafield Cumbria CA20 1PG	**Local contact** Ms Jacqueline Batty Tel: +44 (0)19467 88364 Fax: +44 (0)19467 75154 E-Mail: jacqueline.batty@sellafieldsites.com Website: www.sellafieldsites.com	**Testing:** Microbiological	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HA ANALYSIS	Radiochemical and Chemical Analysis	Documented In-House Methods	
Dissolver Liquor HAST Liquor	Acidity	QAAM 0310 by titrimetry	A
Aqueous Raffinates (note – specific matrices for each method are detailed in the relevant QAAM)	Uranium and Plutonium Pu-239, Pu-240, Pu-241, Pu-242, Pu-238 by alpha spectrometry Total Plutonium U-234, U-235, U-236, U-238	QAAM 0066 by TIMS ASI 46E, ASI 74E, ASI 478P for instrument operation ASI177P for sample mounting	A
PLANT CONTROL			
Aerial Effluents (Charcoal and Zeolite matrices)	Acidity	QAAM 0330 by titrimetry	A
Scrubber Liquors Process Liquors Degraded Solvents Plant Effluents	Alpha Activity; relative to ^{239}Pu	ASI 325P Preparation and QAAM 0035 by alpha counting	A
Plant Solutions Gas Bubblers TBP/OK solutions	Alpha Emitting Nuclides	ASI 122P Preparation QAAM 0746 by alpha spectrometry	A
	Am^{241}	ASI 124P, ASI 265P Preparation QAAM 0027 by LEPS (ASI 86E Gamma spec calibration)	A
	Am^{241}, Np^{237} and I^{129}	ASI 124P, ASI 265P Preparation QAAM 0053 by LEPS (ASI 86E Gamma spec calibration)	A
	Beta Activity; relative to $^{90}Sr/^{90}Y$	ASI 325P Instrument Operation QAAM 0034 by Geiger Muller Ionisation detector	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANT CONTROL (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal and Zeolite matrices) Scrubber Liquors Plant Effluents Plant Solutions Gas Bubblers TBP/OK solutions (cont'd)	C^{14} + $BaCO_3$ Equivalent	QAAM 0411 by Liquid Scintillation ASI 42E for instrument operation	A
	Density	QAAM 0409 by Parr densitometer	A
	Dissolved Solids in Aqueous samples	QAAM 0224 by gravimetry	A
	Electrical Conductivity	QAAM 0210 by conductivity meter	A
	Gamma Activity	ASI 265P Preparation QAAM 0295 by NaI scintillation detector	A
	Gamma Emitting Nuclides (Energy range: 130 - 1886keV)	QAAM 0051 by Gamma Spectrometry (ASI 86E Gamma spec calibration)	A
	Hydroxide, Carbonate and Bicarbonate	QAAM 0226 by titrimetry	A
	Iron	QAAM 0614 by Spectrophotometry	A
	Nitrate, Nitrite, Phosphate and Chloride	QAAM 0121 by Ion Chromatography (Dionex)	A
	Oxalic Acid	QAAM 0298 by titrimetry	A
	Am^{241}	QAAM 0587 and QAAM 53 by LEPS for Am^{241}	A
	pH	QAAM 0619 by pH meter	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANT CONTROL (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal and Zeolite matrices) Scrubber Liquors Process Liquors Degraded Solvents Plant Effluents Plant Solutions Gas Bubblers TBP/OK solutions (cont'd)	Pu^{238}, $Pu^{239+240}$	QAAM 0726 / QAAM 0746 by alpha spectrometry	A
	Pu^{241}	QAAM 0726 by liquid scintillation ASI 42E for instrument operation	A
	Sr^{89} and Sr^{90}	QAAM 0723 gamma counting	A
	Suspended Solids	QAAM 0214 by gravimetry	A
	TBP	QAAM 0711 by Gas Chromatography	A
	TBP and OK	QAAM 0711 by Gas Chromatography	A
	Total Alpha (large area counting-auto)	ASI 53P Preparation QAAM 0514 by Gas proportional counting	A
	Total Alpha Activity; relative to Pu^{239}	ASI 122P Preparation QAAM 0048 by scintillation	A
	Total Beta Activity; relative to Sr^{90}/Y^{90}	ASI 123P Preparation QAAM 0049 by Geiger Muller Ionisation Detector	A
	Total Gamma Activity	ASI 124P Preparation QAAM 0723 by Scintillation	A
	Total Organic Carbon Inorganic Carbon Total Carbon (in nitric acid-based samples)	QAAM736 by Shimadzu TOC-VCHP TOC analyser	A
	Tc^{99}	QAAM 0102 by Liquid Scintillation ASI42E Instrument operation	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANT CONTROL (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal and Zeolite matrices) Scrubber Liquors Process Liquors Degraded Solvents Plant Effluents Plant Solutions Gas Bubblers TBP/OK solutions (cont'd)	Tritium as tritiated water	QAAM 0099 by Liquid Scintillation ASI 42E for instrument operation	A
Aqueous Liquors from Effluent and Pond Waters	Sodium Potassium Magnesium Calcium	QAAM 0754 by ion chromatography	A
PRODUCT SPECIFICATION	Radiochemical and Chemical Analysis		
Plutonium Nitrate Plutonium Oxides Mixed Oxide Products Uranium Oxides Uranyl Nitrate (note – specific matrices for each method are detailed in the relevant QAAM)	Free Hydrogen in Solution	QAAM 0231 by titrimetry	A
	Phosphate	QAAM 0334 by spectrometry	A
	Uranium	QAAM 756 for Davies-Gray auto-titration	A
	Uranium Isotopic Abundance	QAAM 0181 by TIMS and MCICP-MS ASI 46E, ASI 74E, B229/OI/113 for instrument operation ASI 177P for sample mounting	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PROCESS WATERS	Microbiology Tests Enumeration of:	Documented In-House Methods	
Process water	Heterotrophic / Aerobic Colony Counts (ACC)	B164LL/LabLP/007 based on the Microbiology of Drinking Water Part 7, 2020 using yeast extract agar	B
	Pseudomonas spp. (presumptive)	B164LL/LabLP/009 – by spread plate using Pseudomonas CFC agar, incubated at 30 °C, characterised by oxidase test	B
Drinking water (non-regulatory)	Heterotrophic / Aerobic Colony	B164LL/LabLP/008 based on the Microbiology of Drinking Water Part 7, 2020 using yeast extract agar	B
END			