Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



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Accredited to ISO/IEC 17025:2017

Sellafield Ltd

Issue No: 050 Issue date: 10 February 2025

Analytical Services Contact: Ms Jacqueline Batty

Sellafield Tel: +44 (0)19467 88364 Cumbria Fax: +44 (0)19467 75154

CA20 1PG E-Mail: Jacqueline.batty@sellafieldsites.com

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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	А
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	В

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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
HA ANALYSIS	Radiochemical and Chemical Analysis	Documented In-House Methods	
Dissolver Liquor HAST Liquor	Acidity	QAAM 0310 by titrimetry	Α
Aqueous Raffinates (note – specific matrices for each method are detailed in	Al, Fe, Mg, U & P	QAAM 0361 by ICP-AES and ASI 646P	Α
the relevant QAAM)	Lithium	QAAM 0464 by ICP-AES and ASI 646P	А
	Pu/U Ratio	QAAM 0043 by TIMS ASI 46E, ASI 74E, ASI 478P for instrument operation ASI 177P for sample mounting	Α
	Solids at 1000 °C	QAAM 0137 by gravimetry	А
	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	Α
Dissolver Liquor HAST Liquor Aqueous Raffinates Plutonium Nitrate Solutions Plutonium Oxide Powders (note – specific matrices for each method are detailed in the relevant QAAM)	Pu and U Isotopic Composition	QAAM 0668 by TIMS and MCICP-MS ASI 46E, ASI 74E, ASI 478P for instrument operation ASI 177P for sample mounting	A

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PLANT CONTROL	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal	Acidity	QAAM 0330 by titrimetry	А
and Zeolite matrices) Scrubber Liquors Process Liquors Degraded Solvents Plant Effluents	Alpha Activity; relative to ²³⁹ Pu	ASI 325P Preparation and QAAM 0035 by alpha counting	А
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
	Ammonium ion	QAAM 735 by cation chromatography and conductivity detector (Dionex)	A
	Beta Activity; relative to ⁹⁰ Sr/ ⁹⁰ Y	ASI 325P Instrument Operation QAAM 0034 by Geiger Muller Ionisation detector	А
	C ¹⁴	QAAM 0029 by Liquid Scintillation ASI 42E for instrument operation	А
	C ¹⁴ + BaCO₃ Equivalent	QAAM 0411 by Liquid Scintillation ASI 42E for instrument operation	A

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	Type of test/Properties	Standard specifications/	
Materials/Products tested	measured/Range of measurement	Equipment/Techniques used	Location Code
PLANT CONTROL (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal and Zeolite matrices)	Density	QAAM 0409 by Parr densitometer	А
Scrubber Liquors Process Liquors Degraded Solvents Plant Effluents	Dissolved Solids in Aqueous samples	QAAM 0224 by gravimetry	А
Plant Solutions Gas Bubblers TBP/OK solutions	Electrical Conductivity	QAAM 0210 by conductivity meter	Α
(cont'd)	Elemental Analysis Calcium Chromium Copper Iron Lead Magnesium Nickel Phosphorus Potassium Sodium Sulphur Uranium Zinc	QAAM 734 by Perkin Elmer ICP-OES	A
	Ferrous Iron	QAAM 0114 by Metrohm Titroprocessor	А
	Gamma Activity	ASI 265P Preparation QAAM 0295 by NaI scintillation detector	Α
	Gamma Emitting Nuclides (Energy range: 130 - 1886keV)	QAAM 0051 by Gamma Spectrometry (ASI 86E Gamma spec calibration)	Α
	Hydroxide, Carbonate and Bicarbonate	QAAM 0226 by titrimetry	А
	J129	QAAM 0103 and QAAM 53 by LEPS	А

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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	Iron	QAAM 0614 by Spectrophotometry	А
Process Liquors Degraded Solvents Plant Effluents	DBP	QAAM 0669 by Liquid Chromatography	А
Plant Solutions Gas Bubblers TBP/OK solutions	Moisture	QAAM 0116 by heating and gravimetry	Α
(cont'd)	Ni ⁶³	QAAM 0091 by Liquid Scintillation ASI 42E for instrument operation	А
	Nitrate, Nitrite, Phosphate and Chloride	QAAM 0121 by Ion Chromatography (Dionex)	А
	Np ²³⁷	QAAM 0590 and QAAM 53 by LEPS	А
	Oxalic Acid	QAAM 0298 by titrimetry	А
	рН	QAAM 0619 by pH meter	А
	Am ²⁴¹	QAAM 0587 and QAAM 53 by LEPS for Am ²⁴¹	А
	Pu ²³⁸ , Pu ²³⁹⁺²⁴⁰	QAAM 0726 /QAAM 0746 by alpha spectrometry	Α
	Pu ²⁴¹	QAAM 0726 by liquid scintillation ASI 42E for instrument operation	Α
	Sr ⁸⁹ and Sr ⁹⁰	QAAM 0101 by Cerenkov counting ASI 42E for instrument operation QAAM 0723 gamma counting	A

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PLANT CONTROL (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Aerial Effluents (Charcoal	Suspended Solids	QAAM 0214 by gravimetry	Α
and Zeolite matrices) Scrubber Liquors Process Liquors Degraded Solvents	TBP (%)	QAAM 0410 by acid equilibrium technique	А
Plant Effluents Plant Solutions Gas Bubblers	TBP	QAAM 0711 by Gas Chromatography	Α
TBP/OK solutions (cont'd)	TBP and OK	QAAM 0711 by Gas Chromatography	Α
	Tc ⁹⁹	QAAM 0102 by Liquid Scintillation ASI42E Instrument operation	Α
	Total Alpha (large area counting-auto)	ASI 53P Preparation QAAM 0514 by Gas proportional counting	Α
	Total Alpha Activity; relative to Pu ²³⁹	ASI 122P Preparation QAAM 0048 by scintillation	А
	Total Beta Activity; relative to Sr ⁹⁰ /Y ⁹⁰	ASI 123P Preparation QAAM 0049 by Geiger Muller Ionisation Detector	Α
	Total Gamma Activity	ASI 124P Preparation QAAM 0723 by Scintillation	А
	Total Organic Carbon Inorganic Carbon Total Carbon (in nitric acid based samples)	QAAM736 by Shimadzu TOC-VCHP TOC analyser	Α
	Uranium	QAAM 0706 by XRF ASI 390P for instrument operation	A
	Uranium	QAAM 0755 by Energy Dispersive XRF using a PANalytical Epsilon 3XLE system	А

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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	Α
PRODUCT SPECIFICATION	Radiochemical and Chemical Analysis		
Plutonium Nitrate Plutonium Oxides Mixed Oxide Products	Density	QAAM 0011 by volume and gravimetry	А
Uranium Oxides	Free Hydrogen in Solution	QAAM 0231 by titrimetry	Α
Uranyl Nitrate (note – specific matrices for	H/Pu Ratio and Total Hydrogen	QAAM 0194 by Elliott cell	А
each method are detailed in the relevant QAAM)	Loss on Heating	QAAM 0685 by gravimetry	Α
	Nitrate	QAAM 0321 by titrimetry	Α
	Nitrite	QAAM 0402 by spectrophotometry	Α

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PRODUCT SPECIFICATION (cont'd)	Radiochemical and Chemical Analysis (cont'd)		
Plutonium Nitrate Plutonium Oxides Mixed Oxide Products	Iron	QAAM 0113 by spectrophotometry	Α
Uranium Oxides Uranyl Nitrate (note – specific matrices for	Phosphate	QAAM 0334 by spectrometry	А
each method are detailed in the relevant QAAM) (cont'd)	Non-Uranic Alpha Emitters	QAAM 0092 and QAAM 48 by alpha scintillation	Α
(cont u)	Np ²³⁷	QAAM 0094 and QAAM 53 by LEPS	А
	Total Pu Alpha (Pu ²³⁹⁺²⁴⁰)	QAAM 0093 and QAAM 48 by alpha scintillation	Α
	Plutonium	QAAM 0190 by Spectrophotometry	Α
	Pu Isotopic Composition	ASI 383P Dissolution QAAM 0045 by TIMS and MCICP-MS ASI 46E, ASI 74E, ASI 478P for instrument operation ASI 177P for sample mounting	A
	Sulphate	QAAM 0323 by titrimetry	Α
	Uranium	QAAM 0671 by ICP-MS ASI 522P for instrument operation	Α
	Uranium	QAAM 0698 by amperometric titration	Α
	Uranium	QAAMs 543 & 557 by titration ASI 671P for Davies-Gray auto-titration	A

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Materials/Products tested	Type of test/Properties measured/Range of	Standard specifications/ Equipment/Techniques	Location Code
PRODUCT SPECIFICATION (cont'd)	measurement Radiochemical and Chemical Analysis (cont'd)	used	Code
Plutonium Nitrate Plutonium Oxides Mixed Oxide Products Uranium Oxides Uranyl Nitrate (note – specific matrices for each method are detailed in the relevant QAAM) (cont'd)	Uranium Isotopic Abundance	QAAM 0181 by TIMS and MCICP-MS ASI 46E, ASI 74E, ASI 478P for instrument operation ASI 177P for sample mounting	A
Uranium Oxides Uranyl Nitrate	Uranium	QAAM 0202 by amperometric titration titration	А
THORP REAGENT GALLERY (TRG)	Radiochemical and Chemical Analysis	uuduon	
Chemical Reagents used in TRG	Hydroxylamine	QAAM 0552 by titrimetry	А

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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	В
	Pseudomonas spp. (presumptive)	B164LL/LabLP/009 – by spread plate using Pseudomonas CFC agar, incubated at 30 °C, characterised by oxidase test	В
Drinking water (non- regulatory)	Heterotrophic / Aerobic Colony	B164LL/LabLP/008 based on the Microbiology of Drinking Water Part 7, 2020 using yeast extract agar	В
	Detection of:		
Process water, drinking water (non-regulatory), demineralised water	Legionella spp genomic units	B164LL/LabLP/010 based on ISO/TS 12869:2019 with concentration and genic amplification by quantitative polymerase chain reaction (qPCR) using the primer design easy DNA extraction and Legionella spp. advanced assay qPCR kits, and the Genesig Q16 Thermocycler	В
	END		

END

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