

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4038 Accredited to ISO/IEC 17025:2017	United Kingdom National Nuclear Laboratory	
	Issue No: 023 Issue date: 12 January 2026	
	Measurement & Analysis A709, Preston Laboratory Westinghouse Springfield Fuels Ltd Station Road Lea Town Lancashire PR4 0XJ	Contact: Miss Laura Mcvittie Tel: +44 (0)1772 963902 E-Mail: laura.mcvittie@uknnl.com Website: www.uknnl.com
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 Measurement & Analysis A709, Preston Laboratory Westinghouse Springfields Fuels Ltd Lea Town Lancashire PR4 0XJ	Local contact Miss Laura Mcvittie Tel: +44 (0)1772 963902 E-Mail: laura.mcvittie@uknnl.com Website: www.uknnl.com	Testing: Radiochemical Chemical Physical	A
Address Measurement & Analysis B170, Central Laboratory Sellafield Seascale Cumbria CA20 1PG	Local contact Miss Laura Mcvittie Tel: +44 (0)1772 963902 E-Mail: laura.mcvittie@uknnl.com Website: www.uknnl.com	Testing: Radiochemical	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
<p>CLEARANCE / DECOMMISSIONING / WASTE SAMPLES</p> <p>Intermediate and low level waste samples (resins, swabs/filters, graphite, sludges and concretes, aqueous samples/pond waters)</p> <p>Intermediate and low level waste samples (resins, filters, metals, oils, sludges and concretes, aqueous samples)</p> <p>Dissolution liquor and aqueous samples</p>	<u>Radiochemical Testing</u>	Documented in house methods:	
	Tritium (³ H) (Total) and Carbon-14	WRC SOP 0150 for sample/source preparation by combustion furnace WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting	A
	Sample dissolution and preparation	WRC SOP 0459 for dissolution and preparation of resins, filters, metals, oils, sludges and concretes into dissolution liquors and aqueous solutions for subsequent radiochemical determinations, by way of acid leaching and digestion, ashing, fusion	A
	Screening for:		
	Total alpha activity (relative to ²⁴¹ Am)	WRC SOP 0403 for sample/source preparation WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting	A
Total beta activity - low energy		A	
X-ray and beta emitting nuclides (<20keV) (relative to ⁵⁵ Fe and ³ H)		A	
Total beta activity - high energy beta emitting nuclides (relative to ⁹⁰ Sr, ¹³⁷ Cs and ⁶⁰ Co)		A	



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<p>CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)</p> <p>Dissolution liquor and aqueous samples</p>	<p><u>Radiochemical Testing</u> (cont'd)</p>	<p>Documented in house methods:</p>	
	<p>Quantitative analysis:</p> <p>Gamma emitting radio- nuclides (energy range: 59 keV - 1836 keV)</p>	<p>WRC SOP 0401 for operation of the gamma spectrometers WRC SOP 0408 for calibration of the gamma spectrometers</p>	A
	<p>Plutonium isotopes: ²³⁹⁺²⁴⁰Pu, ²³⁸Pu Americium isotopes: ²⁴¹Am Curium isotopes: ^{243/244}Cm, ²⁴²Cm</p>	<p>WRC SOP 0409 for sample/source preparation WRC SOP 0313 for alpha spectrometry</p>	A
	<p>Uranium isotopes: ²³⁸U, ^{236/235}U, ²³⁴U</p>	<p>WRC SOP 0414 for sample/source preparation WRC SOP 0313 for alpha spectrometry</p>	A
	<p>Plutonium isotopes: ²⁴¹Pu</p>	<p>WRC SOP 0415 for sample/source preparation WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting</p>	A
	<p>Strontium isotopes: ⁹⁰Sr</p>	<p>WRC SOP 0305 for sample/source preparation WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting</p>	A
	<p>Nickel isotopes: ⁶³Ni</p>	<p>WRC SOP 0406 for sample/source preparation WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting WRC SOP 1002 for ICP- OES</p>	A



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CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)	<u>Radiochemical Testing</u> (cont'd)	Documented in house methods:	
Dissolution liquor and aqueous samples (cont'd)	Quantitative analysis (cont'd): Promethium isotopes: ¹⁴⁷ Pm	WRC SOP 407 for sample/source preparation WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting WRC SOP 1002 for ICP -OES	A
	Tritium (³ H)	WRC SOP 0207 (aqueous only) WRC SOP 0511, 0512, 0115, 0513 for liquid scintillation counting	A
Waste and Process Waters (containing no suspended solids)	Gross alpha activity (relative to ²⁴¹ Am)	IMS-I-500-02560 using Silicon diode alpha detector	B
	Gross beta activity (relative to ⁹⁰ Sr/ ⁹⁰ Y)	IMS-I-500-02560 using Geiger counter beta Detector with connected scaler	B



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<p>CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)</p> <p>Aqueous samples (acidic solutions, waste waters, uranic solutions)</p>	<p><u>Chemical Testing</u></p> <p>Elemental determination for:</p> <ul style="list-style-type: none"> Aluminium - Al Antimony - Sb Arsenic - As Barium - Ba Boron - B Beryllium - Be Cadmium - Cd Calcium - Ca Cerium - Ce Chromium - Cr Cobalt - Co Copper - Cu Caesium - Cs Dysprosium - Dy Europium - Eu Iron - Fe Gadolinium - Gd Gold - Au Hafnium - Hf Lanthanum - La Lead - Pb Lithium - Li Magnesium - Mg Manganese - Mn Mercury - Hg Molybdenum - Mo Neodymium - Nd Nickel - Ni Palladium - Pd Phosphorus - P Potassium - K Praseodymium - Pr Rhenium - Re Rhodium - Rh Rubidium - Rb Ruthenium - Ru Samarium - Sm Selenium - Se 	<p>Documented in house method:</p> <p>WRC SOP 1003 by ICP-MS</p>	<p>A</p>



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<p>CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)</p> <p>Aqueous samples (acidic solutions, waste waters, uranic solutions) (cont'd)</p>	<p><u>Chemical Testing</u></p> <p>Elemental determination for:</p> <p>Silicon - Si Silver - Ag Sodium - Na Strontium - Sr Tantalum - Ta Technetium - Tc Tellurium - Te Thallium - Tl Thorium - Th Tin - Sn Titanium - Ti Tungsten - W Vanadium - V Yttrium - Y Zinc - Zn Zirconium - Zr</p>	<p>Documented in house method:</p> <p>WRC SOP 1003 by ICP-MS (cont'd)</p>	<p style="text-align: center;">A</p>



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CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)	<u>Chemical Testing</u> (cont'd)	Documented in house method:	
Aqueous samples (acidic solutions, waste waters, uranic solutions) (cont'd)	Uranium - U (Total), ²³⁵ U and ²³⁸ U Uranium isotopic abundance (²³⁵ U/ ²³⁸ U ratio)	WRC SOP 1003 by ICP-MS	A
Acidic Samples and Dissolution liquors (including fused samples) Range: µg/L to g/100 ml	Elemental determination for: Aluminium - Al Antimony - Sb Arsenic - As Barium - Ba Boron - B Beryllium - Be Cadmium - Cd Calcium - Ca Chromium - Cr Cobalt - Co Copper - Cu Dysprosium - Dy Europium - Eu Iron - Fe Gadolinium - Gd Lead - Pb Lithium - Li Magnesium - Mg Manganese - Mn Molybdenum - Mo Neodymium - Nd Nickel - Ni Potassium - K Rubidium - Rb Samarium - Sm Silicon - Si Silver - Ag Sodium - Na Strontium - Sr Sulphur - S Thallium - Tl Thorium - Th	WRC SOP 1002 by ICP-OES	A



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CLEARANCE / DECOMMISSIONING / WASTE SAMPLES (cont'd)	<u>Chemical Testing</u> (cont'd)	Documented in house method:	
Acidic Samples and Dissolution liquors (including fused samples) Range: µg/L to g/100 ml (cont'd)	Elemental determination for: (cont'd) Tin - Sn Titanium - Ti Uranium - U Vanadium - V Zinc - Zn Zirconium - Zr	WRC SOP 1002 by ICP-OES	A
CLEARANCE / DECOMMISSIONING / WASTE SAMPLES	<u>Physical Testing</u>		
Dry uranic / non-uranic solid samples	Absolute (skeletal) volume and density	WRC SOP 2000 by gas pycnometry	A
END			