

Ref - NNLC (Procurement to complete)	Requirement Classification (Goods, Services or Works)	Requirement Title	Detail (Demander to Provide)	Estimated Spend Thresholds: Above Threshold Below Threshold	Estimated Tender Launch Date Year/Quarter	CPV Coding
	Goods	Supply of Metallographic Polisher & Grinder (inc Hot Mount Press)	Supply of Metallographic Polisher & Grinder (inc Hot Mount Press) for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2023 - Q4	38434400: Vibration analysers
	Goods	A400 Polisher (small)	A400 Polisher (small) for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2023 - Q4	38434400: Vibration analysers
	Goods	Supply of Surface Area Analyser (BET)	Supply of Surface Area Analyser (BET) for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2024 - Q4	38434000: Analysers
	Goods	Supply of X-ray Diffractometer (XRD)	Supply of X-ray Diffractometer (XRD) for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2023 - Q4	38947000: X-ray microanalysers
	Goods	Supply of Optical Microscope	Supply of Optical Microscope for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2026 - Q1	38634000: Optical microscopes
	Goods	Supply of Can Puncture Rig	Supply of Can Puncture Rig for Special Nuclear Material Package Integrity Recovery Programme	Below Threshold	2023 - Q4	45223100: Assembly of metal structures
	Service	Versafift Crane Hire	Versalift Crane hire for Legacy Waste Project	Below Threshold	2024 - Q2	45510000: Hire of cranes with operator
	Service	Inspection Equipment Fabrications	???	Below Threshold		
	Service	X Ray Analysis	???	Below Threshold	2023/24 - Q3	
	Goods	Consumable spend (i.e. BET sample tubes, balancers etc)	???	Below Threshold		
	Service	Independent Cat B Plant Modification Proposal review for Dounreay cans safety case project	Independent Cat B Plant Modification Proposal review for Dounreay cans safety case project	Below Threshold	2024 - Q1	98113100: Nuclear safety services
	Service	ONR Cat B Plant Modification Proposal review	ONR Cat B Plant Modification Proposal review for Dounreay cans safety case project	Below Threshold	2024 - Q2	98113100: Nuclear safety services
	Goods	Supply of micro-gas chromatograph	Supply of micro-gas chromatograph for Special Nuclear Material - support for material consolidation FY23/24 programme	Below Threshold	2023 - Q4	38432210: Gas chromatographs
	Goods & Services	Automated stores	???	Above Thredshold	2024 - Q2	
	Goods & Services	Thermal HAWTT Capability development programme 22-25.	Geomelt Rig Upgrade Feasibility Study	Below Threshold	2024 - Q1	71335000

	Goods & Services	EIRT FY23/24 - Technical Support Assessment of the Sustainability of Alternative Encapsulants	Supplier will provide technical support to the NNL Technical Lead. It is anticipated that there will be a requirement for regular meetings at the NNL Workington facility to maintain contact with the developing experimental works. This will include occasional requirements for technical advice on the proposed experimental works, including interpretation of results and assistance with document checking. Supplier will also provide a Report on the Assessment of the Sustainability of Alternative Encapsulants, which is a requirement under NNL EIRT submission to SL	Below Threshold	Q3 2023	71356000: Technical services
	Goods & Services	EIRT FY23/24 - Technical Support	Technical Lead. It is anticipated that there will be a requirement for regular meetings at the NNL Workington facility to maintain contact with the developing experimental works. This will include occasional requirements for technical advice on the proposed experimental works, including interpretation of results and assistance with document checking	Below Threshold	Q2 2024	71356000: Technical services
	Goods & Services	EIRT FY23/24/25 - Consultancy & Analytical services	Expert consultancy regarding experimental planning, cementitious material formulations and engineering, and interpretation of trial data: Analytical work Facility Usage & Researcher time	Below Threshold	Q3 2023	
	Goods	Experimental Sluicing Rig	???	Below Threshold		
	Service	SL Support for EU H2020 PreDis	???	Below Threshold		
	Goods	Prototype Radiolysis Rig	Assembly of Prototype Radiolysis Rig	Below Threshold	2024 - Q1	71335000
	Goods	VTR Operations 22-24	???	Above Threshold		
	Goods & Services	SIXEP & LAEMG Development	???	Above Threshold		
	Goods	Oedometers	???	Below Threshold		
	Services	EASD Jet Design - contractor to provide services	???			
	Goods	Avert Modelling and MSSS Hardware	???	Below Threshold		
	Goods & Services	Design and fabrication work for water jetting equipment	???	Below Threshold		
	Goods	Filter Manufacture and Supply	???	Below Threshold		
	Goods	MSSS Muon Tomography	???	Below Threshold		
	Goods	SL BEP RTS	???	Below Threshold		

	Goods	Geological Modelling	???	Below Threshold		
	Goods	Development of the FIRMArm to Enable Deployment at Sellafield	???	Above Threshold		
		Self-Shielded Boxes Filter Tester Production Phase 1	Manufacture and Supply of Self Shielded Boxes Filter Tester	Below Threshold	2023 - Q4	42514000
		HALES Academic Review	Proposal of a 1-year academic project to examine possible reasons for the formation of high yield stress settled ZM solid beds.	Below Threshold	2023 - Q4	73000000
	Goods/Services/Works	Programme & Project Management PMc	???	Above Threshold		
	Goods/Services/Works	Multi Disciple Design Consultant MDDC	Budget & Schedule OBC Project Initiation Document 'Regulatory Approval Requirements capture, UK led design, UK/ Japan Integration and GDA preparation, Investment approach	Above Threshold	Q3 2023	71320000: Engineering design services
	Goods/Services/Works	Regulatory Approval & GDA Support Technology Development	In Preparation	Below Threshold	Q3 2023	71320000: Engineering design services
	Goods/Services/Works	Regulatory Approval Requirements capture, UK led design, UK/ Japan Integration Japanese Consultant	<p>[1] Technology Requirements Capture</p> <p>i. Support the identification key regulatory topics for UK team to focus on.</p> <p>ii. Support the identification of Japanese Codes and standards required for HTGR design and those that are not in the public domain.</p> <p>a. Japanese Codes and standards for Hastelloy XR, 21/4Cr-1Mo, Graphite IG11, etc</p> <p>b. General information to be shared about these Japanese codes and standards</p> <p>c. Provide general information and references to published materials regarding the identified Japanese codes and standards required for HTGR design.</p> <p>d. Provide advice and guidance on what codes and standards are in existence within JAEA and which are or planned to be in the public domain.</p> <p>[2] Design Integration</p> <p>i. Support the identification of design information gaps.</p> <p>a. MHI and JAEA will start a new HTGR design for hydrogen production in Japan therefore advice and guidance required on potential design changes.</p> <p>b. Provide advice and understanding on the merits and drawbacks of Japanese designs, and what design changes UK would have to make to meet UK requirements.</p> <p>ii. Suggest sources of information that may support</p>	Below Threshold	Q4 2023	71320000: Engineering design services 73000000: Research and development services and related consultancy services

	Goods/Services/Works	IC for HVAC, Electrical and Civil & Structural	TBD	Above Threshold	Q1 2024	71320000: Engineering design services 72224000: Project management consultancy services
		Japanese Design Integration / coordination Workshops	Facilitation of Workshops in Japan for integration of UK and Japan design requirements	Below Threshold	Q4 2023	73000000: Research and development services and related consultancy services
		HES Manifold	Design building and testing of a mock-up sensor array for testing heat exchanger manifold designs.	Below Threshold	Q1 2024	71334000: Mechanical and electrical engineering services
		UK Skills and Capability Assessment	TBD	Below Threshold	Q2 2024	73200000: Research and development consultancy services
		Intellectual property Management Plans	TBD	Below Threshold	Q2 2024	79100000: Legal services
		Transportation Plan	Route surveys, Facilities and handling capability.	Below Threshold	Q4 2023	60000000: Transport services (excl. Waste transport)
	Goods/Services/Works	End User Requirements - NEPIC	???	Above Threshold		
	Goods/Services/Works	EDF Support	GDA Step 1, Structural Integrity, Graphite, Fuel Route, Environmental Protection, Radiological Protection, C&I, Fuel, Core & Fault, Human Factors, Design Authority	Above Threshold	Q3 2023	71320000: Engineering design services 72224000: Project management consultancy services
	Goods/Services/Works	Translation Services	Translation of Technical documentation received from JAEA , Japan		Q3 2023	79530000: Translation services
	Goods/Services/Works	TEI Fuel Salt - Phase 1A	Tender with universities/suppliers regarding development of technology required for urad device	Below Threshold	2023 - Q3/Q4	73000000
	Goods/Services/Works	TEI Fuel Salt - Phase 1B	Development and supply of URAD Device/Sensor	Above Threshold	2024 - Q4	30237475
	Goods/Services/Works	TEI Fuel Salt - Phase 2	Upscaling of device to be commissioned as inline instrument for fuel salt production purposes	Above Threshold	Dependent on Phase 1A&B	30237475
	Goods & Services	Experimental Apparatus Procurement - Moltex Energy	???	Below Threshold		
	Services	Environment Agency Framework	???	Below Threshold		
	Goods	Coated Particle Fuel Manufacture	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q1 2024	71350000: Engineering-related scientific and technical services
	Services	Durability Testing - Electrochemistry	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71600000: Technical testing, analysis and consultancy services
	Goods	Coated Particle Fuel Manufacture	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services
	Goods	UoM FBCVD R&D Coater	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services
	Goods/Services/Works	Fuel Recycling: 2023 Scope	???	Below Threshold		
	Goods/Services/Works	Fuel Recycling: 2024 Scope	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services

	Services	Alternative Compact Forms and Manufacturing Approaches	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services
	Services	On-line Process Monitoring	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71700000: Monitoring and control services
	Goods	Coated Particle Fuel Manufacture	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services
	Services	Irradiation Test Slow	Direct Award: specific knowledge / continuation of work from previous phase Irradiation Test Slot	Below Threshold	Q4 2023	71600000: Technical testing, analysis and consultancy services
	Goods	Development of the PyC / Graphite Polycrystalline Model	Direct Award: specific knowledge / continuation of work from previous phase	Below Threshold	Q4 2023	71350000: Engineering-related scientific and technical services
	Goods	Cost & Schedule SOBC	In Preparation	Below Threshold	Q3 2023	71242000: Project and design preparation, estimation of costs
	Goods	Economic Modelling & Private Sector Investment	To be developed	Below Threshold	Q4 2023	79311400: Economic research services
	Services	Intercalation Studies - Fuel Recycling	???	Below Threshold		
	Goods & Services	Gas Bottle Station Design and Install	???	Below Threshold		
	Services	NNL FBCVD Coater Warranty & Service Provision	???	Below Threshold		
	Goods	Overcoater	???	Above Threshold		
	Goods	Mixture of different equipment for Graphite Team	???	Below Threshold		
	Goods	Glow Discharge Mass Spectroscopy	???	Below Threshold		
	Services	Non Active Lab Facilities	???	Above Threshold		
	Goods	Furnace (Workington)	???	Below Threshold		
	Goods	OTS Equipment	???	Below Threshold		
	Goods	Mixture of different equipment for Graphite Team	???	Below Threshold		
	Goods	Warm Press Compaction	???	Above Threshold		
	Goods	Heat Treatment Furnace (Carbonising)	???	Below Threshold		
	Goods	Heat Treatment Furnace (Annealing)	TBD	Above Threshold	Q4 2023	42940000: Machinery for the heat treatment of materials
	Goods	Optical Anisotropy Equipment		Below Threshold	Q4 2023	38000000: Laboratory, optical and precision equipments (excl. glasses)
	Goods	X-ray Microtomography Equipment		Above Threshold	Q4 2023	33111000: X-ray devices
	Services	Re-Estimating Cost for Step 2	???	Below Threshold		
	Services	User Access Call	???	Above Threshold		
	Services	Strategic Support for Spent Fuel Related Projects Framework	???	Above Threshold		
	Services	Fabrication and Machining Framework	???	Above Threshold		
	Services	CINDe 2	???	Above Threshold		
		Versatile Deconversion	Test versatile deconversion plant concept	Above Threshold	Q1 2024/25	
		BWR Magnatron Pipe Coating	Full length coated cladding for BWR application	Above Threshold	Q1 2024/25	73100000

		NDA University Interactions Framework	PhD administration delivered by NNL with some third party support for industrial supervision	Below Threshold	Q1 2024/25	
	Services	CPF Intelligent Customer Capability	Programme to maintain and grow the UK's intelligent customer capability in anticipation of future Phase B CPF engineering design programme.	Below Threshold	Q4 2023/24	
	Services	Association of Project Management (APM) training courses	???	Below Threshold		
	Services	Project Manager Resource	???	Below Threshold		
	Services	Radioisotope Power Services	Manufacture of Ceria based pellets	Above Threshold	Q4 2023/24	
	Services	S&T PhDs	No Procurement applicable to this work pack.		Ongoing	73100000
	Services	NDA PhDs	No Procurement applicable to this work pack.		Ongoing	73100000
	Services	SQEP Maintenance	No Procurement applicable to this work pack.			
	Services	Export Fuel	New Dummy Can Rabbit Ears Additional Pipe Clamp Rotation Speed Timer Upgrade Human Factors Recommendations			
	Services	Residual Stress	Mods to adaptor hub rig			
	Services	Thermal Expansivity				
	Services	HVE				
	Services	Sample Prep	No requirement for procurement at this time.			
	Services	New Cutting Capability (NCC)	Procurement of OpenBuilds CNC Machine (completed)	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of Surrogate Test Material	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of Inferior Test Material	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of Cutting Tools for CNC Cutting Machine	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of Cutting Clamps and Accessories for CNC	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of additional CNC Machine and Accessories	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of additional equipment for machine modification	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of additional equipment for machine modification	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of Additional Inferior and Surrogate Materials	Below Threshold		
	Services	New Cutting Capability (NCC)	Procurement of additional equipment for machine modification	Below Threshold		
	Services	New Cutting Capability (NCC)	Additional Equipment, Materials & Tooling	Below Threshold		
		SEM	New In Cave SEM	Above Threshold		
		TEM				
	Goods	Horizontal Posting Port				
	Services	Hardness Testing	No requirement for procurement at this time.			
	Services	NSC Flask Capability				
	Services	Programme Manag, Tech Resource & T&S				
	Services	Generic Safety Case				
	Services	APL Libs	Discussed 12/07/2023 and contract management requirements.			
	Goods	Thermal Diffusivity				
	Goods	Wet To Dry	Cave 6 - Lifting Beam Bracket	Below Threshold		
	Services	Care & Maintenance	Only definite current ly known - 1 x R941 camera	Below Threshold		
	Services	Archive Reduction				
	Services	Transfer Cans – Cave 13				
	Services	Secure IT Development Communications				
	Services	Operations				
	Services	PIE Chem				
	Services	Alternative Microstructures Irradiated Test (AMIT)				

			SMF Vent Tie-in Design & manufacture (scope tbc)			
	Services	Import & Transfer of Fuel	Pipe transit	Below Threshold		
	Services	Import & Transfer of Fuel	Nitrogen System Design	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Spares Storage Racking + asbestos assessment	Below Threshold		
	Services	Import & Transfer of Fuel	HPP Flowmeter manufacture	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID SMF - Lifting Equipment Inspection, LAT, transport, plant hire	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID NSC Tooling	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID NSC - Lifting Equipment Inspection, LAT, transport, plant hire	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Lid Stand Mod - Materials	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID New Setting Bar - Materials	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID SMF Tent Procurement & Consultancy	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Cave 6 Wall demolish and make good	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Trial & purchase of spare extract unit	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Staubli Fittings for V/P HEPA Filters	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID HEPA Filter Drop Testing +spares	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Perform extract unit performance trials (supplier tbc) Proof test alternative extract unit Procure smf spare extract unit	Below Threshold		
	Services	Import & Transfer of Fuel	Overarching PID Cave 6 Wall asbestos removal (cost TBC)			
	Services	Import & Transfer of Fuel	Overarching PID SMF Blister Bags	Below Threshold		
	Services	Import & Transfer of Fuel	AHF Lighting Design (TBC after optioneering)			
	Services	NR XY Linear				
	Services	Cave 5 PIE Capability	Breakdown Table			
	Services	Cave 5 PIE Capability	Slitting saw			
	Services	Cave 5 PIE Capability	Reciprocating Hacksaw			
	Services	Cave 5 PIE Capability	Z Rig (raise and lower component past probe)			
	Services	Cave 5 PIE Capability	Clamping Capability			
	Services	Cave 5 PIE Capability	Lifting capability			
	Services	Cave 5 PIE Capability	Visual Inspection Capability			
	Services	Cave 5 PIE Capability	In-cave vacuum system			
	Services	Cave 5 PIE Capability	Specimen identification (dot peen)			
	Services	Cave 5 PIE Capability	Temperature Probes & Cameras			
	Services	Cave 5 PIE Capability	Sample cutting capability (RODS)			
	Services	Cave 5 PIE Capability	Welder and leak detector			

	Services	Cave 5 PIE Capability	FTIR technique			
	Services	Cave 5 PIE Capability	Residual Stress (Sidewall)			
	Services	Cave 5 PIE Capability	Residual Stress (Adaptor Hub)			
	Services	Cave 5 PIE Capability	Milling Head Support Bracket			
	Services	Cave 5 Refurb (CAPEX)				
	Services	MSM Risk Mitig Cave 6 Lifting Beam				
	Services	Atom system	nuclear material accountacy system	above threshold		