



# Supplier Qualification Scheme



## Certificate of Verification

*This is to certify that*

Supplier Name

Arcadis Consulting (UK) Limited

Supplier ID

2184

*is now a verified supplier on RISQS*

Subscription Expiry Date: 16/03/2020

*G. Scott*

RISQS Scheme Manager



## RICCL Code Summary

**Supplier Name:** Arcadis Consulting (UK) Limited  
**Supplier Number:** 2184

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
A.A.3N	Non-Destructive Testing Service	Verified
A.A.9.1N	Provision of Protection & Warning Staff (not including LOWS) Service	Qualified via Audit
A.B.5.1N	Railway Safety Consultancy Service	Verified
A.B.5.2N	Development & Review of Safety Standards Service	Verified
A.B.5.3N	Submissions to HMRI/ORR Service	Verified
A.B.5.4N	Accident/Incident Investigation Service	Verified
A.B.5.5N	Safety Management System Review Service	Verified
B.B.2Q	Heritage Automatic Train Protection (ATP) unit Design	Qualified via Audit
B.C.1.1.1Q	Track Circuits (including Level Crossings) Design	Qualified via Audit
B.C.1.1.2Q	Track Circuit Interrupters Design	Qualified via Audit
B.C.1.1.3Q	Axle Counters (including Level Crossings) Design	Qualified via Audit
B.C.1.1.4Q	Treadles (including Level Crossings) Design	Qualified via Audit
B.C.1.10.1Q	ATP Equipment Design	Qualified via Audit
B.C.1.10.2Q	AWS Track Equipment Design	Qualified via Audit
B.C.1.10.3Q	TPWS & Associated Equipment Design	Qualified via Audit
B.C.1.10.4Q	Tilt Authorisation & Speed Supervision Equipment Design	Qualified via Audit
B.C.1.11.1Q	Reed FDM Vital Design	Qualified via Audit
B.C.1.11.2Q	Reed FDM Non Vital Design	Qualified via Audit
B.C.1.11.3Q	TDM Design	Qualified via Audit
B.C.1.11.4Q	Signalling Cable Design	Qualified via Audit
B.C.1.12.1Q	Condition Monitoring Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
B.C.1.12.2Q	Electronic Digital System Event Loggers Design	Qualified via Audit
B.C.1.12.3Q	Voltage Free Relay Event Loggers Design	Qualified via Audit
B.C.1.2.10Q	Train Ready To Start (TRTS) Design	Qualified via Audit
B.C.1.2.11Q	Marker Posts - Shunt & SPAD Indicators Design	Qualified via Audit
B.C.1.2.1Q	Colour Light Signals Design	Qualified via Audit
B.C.1.2.2Q	Banner Signals Design	Qualified via Audit
B.C.1.2.3Q	Draw Ahead Signals Design	Qualified via Audit
B.C.1.2.4Q	Ground Position Light Signals Design	Qualified via Audit
B.C.1.2.5Q	Signal Lamps (including LEDs) & Lamp Holders Design	Qualified via Audit
B.C.1.2.6Q	Signal Lenses Design	Qualified via Audit
B.C.1.2.7Q	Points Indicators Design	Qualified via Audit
B.C.1.2.8Q	Right Away/Close Door Indicators (RA/CD) Design	Qualified via Audit
B.C.1.2.9Q	Off Indicators Design	Qualified via Audit
B.C.1.3.1Q	Level Crossing Controls Design	Qualified via Audit
B.C.1.3.2Q	Level Crossing Mechanical Equipment e.g. Booms & Barriers Design	Qualified via Audit
B.C.1.3.3Q	Level Crossing Warning Devices Design	Qualified via Audit
B.C.1.3.4Q	Light Units/Wig Wags Design	Qualified via Audit
B.C.1.3.5Q	Audible Devices - Bells Design	Qualified via Audit
B.C.1.3.6Q	Signage Design	Qualified via Audit
B.C.1.3.7Q	Predictor (New Level Crossing Train Detection System) Design	Qualified via Audit
B.C.1.4.1Q	HPSS Design	Qualified via Audit
B.C.1.4.2Q	Clamplock Points Design	Qualified via Audit
B.C.1.4.3Q	Point Machines Design	Qualified via Audit

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<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
B.C.1.4.4Q	Mechanical Backdrive Design	Qualified via Audit
B.C.1.4.5Q	Powerlink Backdrive Design	Qualified via Audit
B.C.1.4.6Q	SO (Hydraulic Backdrive) Design	Qualified via Audit
B.C.1.5.1Q	Patrolman Switch Design	Qualified via Audit
B.C.1.5.2Q	ATWS Design	Qualified via Audit
B.C.1.6.1Q	Route Relay Interlocking Free Wired Both Yellow Book & Western Region Design	Qualified via Audit
B.C.1.6.2Q	West Pac 1,2,3,4 Design	Qualified via Audit
B.C.1.6.3Q	GEC Geographical Design	Qualified via Audit
B.C.1.6.4Q	SSI Design	Qualified via Audit
B.C.1.6.5Q	SIMS W Design	Qualified via Audit
B.C.1.6.6Q	Ansaldo Design	Qualified via Audit
B.C.1.7.1Q	Signal Control Panel NX Design	Qualified via Audit
B.C.1.7.2Q	Signal Control Panel - One Switch NX Design	Qualified via Audit
B.C.1.7.3Q	VDU Based Systems Design	Qualified via Audit
B.C.1.7.4Q	IECC Signal Control & Indication Equipment Design	Qualified via Audit
B.C.1.7.5Q	RETB Signal Control & Indication Equipment Design	Qualified via Audit
B.C.1.8.1Q	Train Describers (Mechanical) Design	Qualified via Audit
B.C.1.8.2Q	Train Describers (Electronic) Design	Qualified via Audit
B.C.1.9.1Q	Ground Frames Manual Design	Qualified via Audit
B.C.1.9.2Q	Ground Frames Powered Design	Qualified via Audit
B.C.1.9.3Q	Lever Frames (Mechanical & Electro Mechanical) Design	Qualified via Audit
B.C.1.9.4Q	Semaphore Signals Design	Qualified via Audit
B.C.1.9.5Q	Mechanical & Fabricated Equipment Design	Qualified via Audit

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<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
B.C.1.9.6Q	Block Instruments Design	Qualified via Audit
B.C.1.9.7Q	Token Instruments Design	Qualified via Audit
B.C.2.1.1Q	Telephone Exchanges (Including Switching Equipment) Design	Qualified via Audit
B.C.2.1.2Q	Telephone Concentrators (Including Switching Equipment) Design	Qualified via Audit
B.C.2.1.3Q	Recording Equipment Design	Qualified via Audit
B.C.2.1.4Q	UPS Design	Qualified via Audit
B.C.2.1.5Q	Battery Back-up - Rectifier Design	Qualified via Audit
B.C.2.1.6Q	Lineside Telephones Design	Qualified via Audit
B.C.2.2.10Q	Modem Services Design	Qualified via Audit
B.C.2.2.1Q	Transmission Systems Design	Qualified via Audit
B.C.2.2.2Q	Telecommunication Housing & Enclosures - Active (Forced Ventilation/Heating etc.) Design	Qualified via Audit
B.C.2.2.3Q	Telecommunication Housing & Enclosures - Passive Design	Qualified via Audit
B.C.2.2.4Q	Telecomm Cabling (Multiple Pair Copper) Design	Qualified via Audit
B.C.2.2.5Q	Telecomm Cabling (Co-Ax) Design	Qualified via Audit
B.C.2.2.6Q	Telecomm Cabling (Data Cabling) Design	Qualified via Audit
B.C.2.2.7Q	Telecomm Cabling (Fibre) Design	Qualified via Audit
B.C.2.2.8Q	UPS Design	Qualified via Audit
B.C.2.2.9Q	Battery Back-up - Rectifier Design	Qualified via Audit
B.C.2.3.1Q	Radio Systems Design	Qualified via Audit
B.C.2.3.2Q	Wireless Services Design	Qualified via Audit
B.C.2.3.3Q	Microwave Transmission Systems Design	Qualified via Audit
B.C.2.3.4Q	Masts (Including Earthing & Lightning Protection) Design	Qualified via Audit
B.C.2.4.1Q	CCTV DOO Systems Design	Qualified via Audit

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<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
B.C.2.4.2Q	Platform Safety Mirrors Design	Qualified via Audit
B.C.2.4.3Q	CCTV Surveillance Systems Design	Qualified via Audit
B.C.2.5Q	CIS Design	Qualified via Audit
B.C.3.10Q	Rock Fall (& Other) Detectors Design	Qualified via Audit
B.C.3.11Q	Weather Stations Design	Qualified via Audit
B.C.3.12Q	Mobile Temperature Monitoring Design	Qualified via Audit
B.C.3.13Q	Geotechnical Monitoring Design	Qualified via Audit
B.C.3.1Q	Remote Condition Monitoring Design	Qualified via Audit
B.C.3.2Q	Overhead Line Monitoring Design	Qualified via Audit
B.C.3.3Q	Hot Axle Box Detectors Design	Qualified via Audit
B.C.3.4Q	Wheel Monitoring Design	Qualified via Audit
B.C.3.5Q	Selecting Door Opening Balises Design	Qualified via Audit
B.C.3.6Q	NDT Inspection Equipment Design	Qualified via Audit
B.C.3.7Q	TIMS Design	Qualified via Audit
B.C.3.8Q	Butterfly Valve Operation (Mechanical & Motorised) Design	Qualified via Audit
B.C.3.9Q	Bridge Strike Monitoring Design	Qualified via Audit
B.C.4.1N	Signalling Consultancy Service	Verified
B.C.4.2N	Control Tables/Reports Service	Verified
B.C.4.3N	Layout Risk Modelling Service	Verified
B.C.4.4N	Signal Sighting Service	Verified
B.C.4.5N	Development & Review of Signalling Standards Service	Verified
C.B.1.1Q	Plain Line Design	Qualified via Audit
C.B.1.2Q	Plain Line (Absolute Geometry) Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.B.1.3Q	Gauge Measurement (Discreet Restrictions) Design	Qualified via Audit
C.B.1.4Q	Gauge Measurement (Tunnels) Design	Qualified via Audit
C.B.1.5Q	Track on Longitudinal Timbers Design	Qualified via Audit
C.B.1.6Q	Direct Fastening Track Systems (e.g. Slab Track/Viper) Design	Qualified via Audit
C.B.1.7N	Track Subgrade Investigation Service	Verified
C.B.2.1Q	Switches & Crossings Conventional Design	Qualified via Audit
C.B.2.2Q	Switches & Crossings (Absolute Geometry) Design	Qualified via Audit
C.B.2.3Q	Switches & Crossings (Modular Systems) Design	Qualified via Audit
C.B.2.4N	S&C Subgrade Investigation Service	Verified
C.B.3Q	Track Drainage Design	Qualified via Audit
C.C.1.1.1Q	Timber Structures Design	Qualified via Audit
C.C.1.1.2Q	Metallic Structures (Including Cast Iron) & Steel Fabrication Design	Qualified via Audit
C.C.1.1.3Q	Masonry Structures (Including Brickwork) Design	Qualified via Audit
C.C.1.1.4Q	Reinforced Concrete Structures Design	Qualified via Audit
C.C.1.1.5Q	Fibre Reinforced Polymer (FRP) Strengthening & Renewal Design	Qualified via Audit
C.C.1.1.6Q	Pre-cast Concrete Structures & Pre-stressed Concrete Structures Design	Qualified via Audit
C.C.1.2.1Q	Tunnels Design	Qualified via Audit
C.C.1.2.2Q	Tunnel Linings Design	Qualified via Audit
C.C.1.2.3Q	Tunnel Drainage Design	Qualified via Audit
C.C.1.3.1Q	Metallic Structures Design	Qualified via Audit
C.C.1.3.2Q	Masonry Structures (Including Brickwork) Design	Qualified via Audit
C.C.1.3.3Q	Reinforced Concrete Structures Design	Qualified via Audit
C.C.1.3.4Q	Concrete-encased Plastic Pipes Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.C.2.1Q	Gantries Design	Qualified via Audit
C.C.2.2Q	Cantilevers Design	Qualified via Audit
C.C.2.3Q	Straight Posts Design	Qualified via Audit
C.C.2.4Q	Equipment Foundations Design	Qualified via Audit
C.C.3.1.1.1N	Underbridge Assessment Service	Qualified via Audit
C.C.3.1.1.2N	Overbridges Assessment Service	Qualified via Audit
C.C.3.1.2.1N	Equipment Support Structures Service	Qualified via Audit
C.C.3.1.2.2N	Bridges, Culverts & Retaining Walls Service	Qualified via Audit
C.C.3.1.2.3N	Tunnels Service	Qualified via Audit
C.C.3.1.2.4N	Coastal & Estuary Defences Service	Qualified via Audit
C.C.3.1.2.5N	Earthworks Service	Qualified via Audit
C.C.3.1.2.6N	CCTV Examination Service	Qualified via Audit
C.C.3.2.12Q	Piling Design	Qualified via Audit
C.C.3.2.14N	Scour Investigation Service	Verified
C.C.3.2.15Q	Scour Protection Design	Qualified via Audit
C.C.3.2.16N	Site investigation Service	Verified
C.C.3.2.17Q	Specialist Access (Platforms etc.) Design	Qualified via Audit
C.C.3.2.19Q	Sprayed Concrete (Including Shotcrete) Design	Qualified via Audit
C.C.3.2.1N	Roped Access Service	Qualified via Audit
C.C.3.2.20Q	Surfacing for Level Crossings Design	Qualified via Audit
C.C.3.2.21Q	Temporary Works Design	Qualified via Audit
C.C.3.2.23Q	Track Support Concrete (Slab Track) Design	Qualified via Audit
C.C.3.2.24N	Ultrasonic Testing Service	Verified



## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.C.3.2.26Q	Waterproofing Design	Qualified via Audit
C.C.3.2.2N	Scaffolding Service	Qualified via Audit
C.C.3.2.4N	Contamination Remediation Service	Qualified via Audit
C.C.3.2.5N	Diving Service	Qualified via Audit
C.C.3.2.7N	Specialist Site Services (including Surveying) - Intrusive Service	Qualified via Audit
C.C.3.2.8N	Specialist Site Services (including Surveying)- Non-Intrusive Service	Verified
C.C.3.2.9N	Concrete Services (Drilling and Cutting) Service	Qualified via Audit
C.C.3.3.1N	Civil Engineering Consultancy Service	Verified
C.C.3.3.2N	Development & Review of Civil Engineering Standards Service	Verified
C.C.3.3.3N	Highway Engineering Service	Verified
C.C.3.4.2.7N	Safe System of Work Planning Service	Qualified via Audit
C.C.3.4.7.10Q	Absorptive Barriers Design	Verified
C.C.3.4.7.11Q	Reflective Barriers Design	Verified
C.C.3.4.7.12Q	Access Way & Steps Design	Verified
C.C.3.4.7.1Q	Concrete Fences Design	Verified
C.C.3.4.7.2Q	Timber Fences Design	Verified
C.C.3.4.7.3Q	Metal Fences Design	Verified
C.C.3.4.7.4Q	Plastic Fences Design	Verified
C.C.3.4.7.5Q	Boundary Gates Design	Verified
C.C.3.4.7.6Q	Level Crossing Stiles, Gates & Barriers Design	Verified
C.C.3.4.7.7Q	Safety Barriers & Restraints Design	Verified
C.C.3.4.7.8Q	Noise Barriers Design	Verified
C.C.3.4.7.9Q	Acoustic Linings Design	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.C.3.4.8.10Q	Ground Stabilisation (including Lime) Design	Qualified via Audit
C.C.3.4.8.1Q	Earthworks (Embankments, Cuttings etc.) Design	Qualified via Audit
C.C.3.4.8.2.1Q	Concrete Sea Walls (Reinforced, Mass & Precast) Design	Qualified via Audit
C.C.3.4.8.2.2Q	Rock Armour Design	Qualified via Audit
C.C.3.4.8.2.3Q	Groynes Design	Qualified via Audit
C.C.3.4.8.2.4Q	Off Shore Breakwaters Design	Qualified via Audit
C.C.3.4.8.2.5Q	Revetments (Stone & Concrete) Design	Qualified via Audit
C.C.3.4.8.2.6Q	Cliff Stabilisation (Including Rock Anchors, Netting & Scaling) Design	Qualified via Audit
C.C.3.4.8.3.1Q	Masonry Structures Design	Qualified via Audit
C.C.3.4.8.3.2Q	Concrete Structures (Mass & Reinforced) Design	Qualified via Audit
C.C.3.4.8.3.3Q	Reinforced Earth Structures Design	Qualified via Audit
C.C.3.4.8.3.4Q	Gabion Walls Design	Qualified via Audit
C.C.3.4.8.3.5Q	Sheet Pile Walls Design	Qualified via Audit
C.C.3.4.8.4Q	Ground Anchors Design	Qualified via Audit
C.C.3.4.8.5Q	Soil Nailing Design	Qualified via Audit
C.C.3.4.8.6Q	Earthworks Drainage Design	Qualified via Audit
C.C.3.4.8.7Q	Rock Netting Design	Qualified via Audit
C.C.3.4.8.8Q	Rock Scaling Design	Qualified via Audit
C.C.3.4.8.9Q	Rock Anchors Design	Qualified via Audit
C.D.1.1Q	Foundations (Piled) Design	Qualified via Audit
C.D.1.2Q	Foundations (Conventional) Design	Qualified via Audit
C.D.1.3Q	Steel Frame Design	Qualified via Audit
C.D.1.4Q	Concrete Frame Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.D.1.5Q	Timber Frame Design	Qualified via Audit
C.D.2.10Q	External Works (Drainage, Including Surface, Foul & Sewerage Treatment) Design	Qualified via Audit
C.D.2.11Q	Minor Building Work (Including Ancillary Buildings & Alterations to Existing Buildings) Design	Qualified via Audit
C.D.2.1Q	Roofing Design	Qualified via Audit
C.D.2.2Q	Stairs Design	Qualified via Audit
C.D.2.3Q	External Walls Design	Qualified via Audit
C.D.2.4Q	Windows & External Doors Design	Verified
C.D.2.5Q	Internal Walls & Partitions Design	Verified
C.D.2.6Q	Internal Doors Design	Verified
C.D.2.7Q	Internal Finishes (Wall, Floor & Ceiling) Design	Verified
C.D.2.8Q	Fittings & Furnishings Design	Verified
C.D.2.9Q	External Works (Paving & Landscaping) Design	Verified
C.D.3.1Q	Sanitary Appliances & Disposal Installations Design	Verified
C.D.3.2Q	Water Installations Design	Verified
C.D.3.3Q	Space Heating & Air Treatment (Central & Local) Design	Verified
C.D.3.4Q	Forced Ventilation Systems Design	Qualified via Audit
C.D.3.5Q	Electrical Installations Design	Qualified via Audit
C.D.3.6Q	Gas Installations Design	Qualified via Audit
C.D.3.7Q	Protective Installations Design	Qualified via Audit
C.D.3.8Q	Communications Installations Design	Verified
C.D.3.9Q	Special Installations (Including Window Cleaning Cradles, Water Treatment Systems, Refrigeration) Design	Qualified via Audit
C.D.4.1Q	Canopies (Stations & Depots) Design	Qualified via Audit
C.D.4.2Q	Major Station & Concourse Roofs Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
C.D.4.3Q	Specialist Doors & Windows Design	Qualified via Audit
C.D.4.4Q	Roller Shutters & Security Grills Design	Qualified via Audit
C.D.4.5Q	Ticket Barriers Design	Qualified via Audit
C.D.4.6Q	Turnstiles Design	Qualified via Audit
C.D.4.8Q	Exhaust Extraction Design	Qualified via Audit
C.D.6.1Q	Lifts Design	Qualified via Audit
C.D.6.2Q	Escalators Design	Qualified via Audit
C.D.7.1Q	Platforms Including Copers, Paving & Tarmac Design	Qualified via Audit
C.D.7.2Q	Platform Face Walls Design	Qualified via Audit
C.D.7.3Q	Modular Platforms Including Trestle Design	Qualified via Audit
C.D.7.4Q	Raised Walkways Design	Qualified via Audit
C.D.7.5Q	Authorised Walking Routes & Access Points Design	Qualified via Audit
C.D.7.6Q	Paths & Safe Cess Design	Qualified via Audit
C.D.8.1Q	Road & Pathway Dressings Design	Verified
C.D.8.2Q	Car & Cycle Parks Design	Verified
C.D.8.3Q	Roadways Design	Verified
C.D.8.4Q	User & Footpath Crossing Surfacing Design	Qualified via Audit
C.E.1N	Track Consultancy Service	Verified
C.E.2N	Development & Review of Track Standards Service	Verified
C.E.3N	Level Crossing Ground Plans Service	Verified
D.E.1.1Q	LV Switchgear Design	Qualified via Audit
D.E.1.2Q	UPS up to 10 KVA Design	Qualified via Audit
D.E.1.3Q	UPS above 10 KVA Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
D.E.1.4Q	UPS Batteries Design	Qualified via Audit
D.E.1.5Q	Diesel Generators (Permanent) Design	Qualified via Audit
D.E.1.6Q	Temporary Generation/Construction Power Supplies Design	Qualified via Audit
D.E.1.7Q	LV Distribution Cabling Design	Qualified via Audit
D.E.2.1Q	Substation Switchgear (Including Control & Protection) Design	Qualified via Audit
D.E.2.2Q	HV Transformers Design	Qualified via Audit
D.E.2.3Q	HV Cabling Design	Qualified via Audit
D.E.3.1Q	Lighting Equipment (Including Luminaires & Control Equipment) Design	Qualified via Audit
D.E.3.2Q	Lighting Support Equipment (Including Winch Mechanisms) Design	Qualified via Audit
D.E.4.1Q	Gas Points Heating Systems Design	Qualified via Audit
D.E.4.2Q	Electric Points Heating Systems Design	Qualified via Audit
D.E.4.3Q	Conductor Rail Heating Systems Design	Qualified via Audit
D.E.5.1Q	Fixed Ventilation Systems Design	Qualified via Audit
D.E.5.2Q	Portable Ventilation Systems Design	Qualified via Audit
D.E.6.1Q	Pumps (Plus Merseyrail & Sudbrook) Design	Qualified via Audit
D.E.6.2Q	Pump Control Systems Design	Qualified via Audit
D.E.6.3Q	Water Treatment Systems Design	Qualified via Audit
D.E.7.1Q	Chargers for Signalling Equipment Design	Qualified via Audit
D.E.7.2Q	Transformers & Transformer Rectifiers Design	Qualified via Audit
D.E.7.3Q	Point T/J (Transformer Rectifiers) Design	Qualified via Audit
D.E.7.4Q	Earth Leakage Detectors Design	Qualified via Audit
D.E.7.5Q	Batteries Design	Qualified via Audit
D.E.7.6Q	U.P.S. Design	Qualified via Audit

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
D.F.1Q	Fuel Storage & Dispensing Systems Design	Qualified via Audit
D.F.2Q	Fuel, Oil & Water Storage Tanks Design	Qualified via Audit
D.F.3Q	Carriage Washing Machines Design	Qualified via Audit
D.F.5Q	Overhead Cranes Design	Qualified via Audit
D.G.2N	Fixed Infrastructure Plant Consultancy Service	Verified
D.G.3N	Development & Review of Plant Standards Service	Verified
E.K.1.11.1Q	Single core cables < 5mm <sup>2</sup> Design	Verified
E.K.1.11.2Q	Single core cables => 5mm <sup>2</sup> Design	Verified
E.K.1.11.3Q	Multicore cables Design	Verified
E.K.1.11.4Q	Cable Harness Design	Verified
E.K.1.11.5Q	Cable markers Design	Verified
E.K.1.7.1Q	Circuit Breakers Design	Verified
E.K.1.7.2Q	Printed circuit boards Design	Verified
E.K.1.7.3Q	Relays Design	Verified
E.K.1.7.4Q	Indicators Design	Verified
E.K.1.7.5Q	Switches Design	Verified
E.K.1.7.6Q	Control & Display Unit Design	Verified
E.K.5.1.1Q	Pantograph Design	Verified
E.K.5.1.2Q	Roof Disconnecter inc Earthing Switch Design	Verified
E.K.5.1.3Q	Lightning Arrestor Design	Verified
E.K.5.1.4Q	System Changeover Switch Design	Verified
E.K.5.1.5Q	Current Transducer Design	Verified
E.K.5.1.6Q	Voltage Transducer Design	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
E.K.5.2.1Q	Third rail shoe gear Design	Verified
E.K.5.2.2Q	Shoe Fuse Design	Verified
E.K.5.2.3Q	Arc Guard Design	Verified
E.K.5.3.1Q	HS Circuit Breaker Design	Verified
E.K.5.3.2Q	Air Blast Circuit Breaker Design	Verified
E.K.5.3.3Q	Vacuum Circuit Breaker Design	Verified
E.K.5.4.1Q	Main Transformer Design	Verified
E.K.5.4.2Q	Transformer Radiator Design	Verified
E.K.5.4.3Q	Transformer Oil Pump Design	Verified
E.K.5.4.4Q	Bucholz Switch Design	Verified
E.K.5.4.5Q	Silica Gel Breather Design	Verified
E.K.5.5.1Q	HT Cable Design	Verified
E.K.5.5.2Q	Insulators/Bushing Design	Verified
E.K.5.5.3Q	Roof Cable Design	Verified
E.K.6.1.1Q	Engine Mount Design	Verified
E.K.6.1.2Q	Cylinder Head Design	Verified
E.K.6.1.3Q	Lube Oil Pump Design	Verified
E.K.6.2.1Q	Exhaust Bellows Design	Verified
E.K.6.2.2Q	Silencer Design	Verified
E.K.6.3.2Q	Fuel Lift Pump Design	Verified
E.K.6.3.3Q	High Pressure Pump Design	Verified
E.K.6.3.4Q	Governor Design	Verified
E.K.6.3.5Q	Fuel Rack Design	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
E.K.6.3.6Q	Electronic Control System Design	Verified
E.K.6.4.1Q	Turbo Charger Design	Verified
E.K.6.4.2Q	Inter Cooler Design	Verified
E.K.6.5.1Q	Starter Control Unit Design	Verified
E.K.6.6.1Q	Radiator Design	Verified
E.K.7.11Q	Hydraulic Traction Equipment Design	Verified
E.K.7.1Q	Traction and braking converters Design	Verified
E.K.7.2.1Q	Electronic Modules Design	Verified
E.K.7.2.2Q	Cards Design	Verified
E.K.7.3.1Q	Fan Design	Verified
E.K.7.3.2Q	Power Electronic Modules Design	Verified
E.K.7.3.3Q	Power Electronic Devices Design	Verified
E.K.7.4.1Q	Contactors and Simple switchgear Design	Verified
E.K.7.4.2Q	Cam Shafts and Tap Changer Design	Verified
E.K.7.5.1Q	Traction and braking resistors Design	Verified
E.K.7.5.2Q	Fans Design	Verified
E.K.7.5.3Q	Radiator Design	Verified
E.K.7.5.4Q	Pump Design	Verified
E.K.7.6.1Q	Traction Battery Design	Verified
E.K.7.6.2Q	Flywheel Design	Verified
E.K.7.9.1Q	Stator Design	Verified
E.K.7.9.2Q	Rotor Design	Verified
E.K.7.9.3Q	Brushgear Design	Verified



## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
E.K.7.9.4Q	Carbon Brushes Design	Verified
F.C.1.1Q	Main Steelwork Design	Qualified via Audit
F.C.1.2Q	Small Part Steelwork Design	Qualified via Audit
F.C.1.3Q	Foundations Design	Qualified via Audit
F.C.1.4Q	Support System Design	Qualified via Audit
F.C.1.5Q	Wiring Design	Qualified via Audit
F.C.1.6Q	Earthing & Bonding Design	Qualified via Audit
F.C.1.7Q	Switching Design	Qualified via Audit
F.C.2.1Q	ETE Conductor Rail & Associated Cabling Design	Qualified via Audit
F.C.2.2Q	Depot Conductor Systems Design	Qualified via Audit
F.C.2.3Q	ETE Negative Bonding Design	Qualified via Audit
F.C.3.1Q	Substations/Switching Stations Design	Qualified via Audit
F.C.3.2Q	HV Cabling Design	Qualified via Audit
F.C.3.3Q	Trackside Equipment Design	Qualified via Audit
F.C.4.1Q	Substations/Switching Stations/Track Paralleling Huts Design	Qualified via Audit
F.C.4.2Q	DC Cabling Design	Qualified via Audit
F.C.4.3Q	Trackside Equipment Design	Qualified via Audit
F.C.6.1N	Electrification Consultancy Service	Verified
F.C.6.2N	Development & Review Electrification Standards Service	Verified
G.B.10N	Operational Planning Service	Verified
G.B.1N	Assessment of Infrastructure Options Service	Verified
G.B.2N	Capacity Modelling Service	Verified
G.B.3N	Network Optioneering Service	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
G.B.4N	Peak Load Management Service	Verified
G.B.5N	Rail Economics Service	Verified
G.B.6N	Strategic Business Studies Service	Verified
G.B.7N	Timetable Optioneering Service	Verified
G.B.8N	Timetable Simulation Service	Verified
G.B.9N	Train Performance Simulation Service	Verified
H.E.11.1Q	Traction SCADA Design	Qualified via Audit
H.E.11.2Q	Non-Traction SCADA Design	Qualified via Audit
H.E.2Q	System Integration Design	Verified
H.E.5.1N	Development & Review of Telecomms Standards Service	Verified
H.E.5.2N	Telecomms Technical Evaluation Service	Verified
H.E.5.3N	Telecomms Consultancy Service	Verified
H.G.1.10N	Environmental Management Systems & Auditing Service	Verified
H.G.1.11N	Pollution Services Service	Verified
H.G.1.1N	General Environmental Consultancy Service	Verified
H.G.1.2N	Biodiversity & Ecological Studies Service	Verified
H.G.1.3N	Environmental Site Investigation/Feasibility Studies Service	Verified
H.G.1.4N	Environmental Impact Assessment/TWA/Public Consultation Service	Verified
H.G.1.5N	Sustainability Appraisals/BREAM Service	Verified
H.G.1.6N	Waste Management Studies/License Applications Service	Verified
H.G.1.7N	Noise & Vibration Studies Service	Verified
H.G.1.8N	Water Quality & Pollution Studies Service	Verified
H.G.1.9N	Climate Change & Air Quality Studies Service	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
H.H.10N	Development & Review of Safety Standards Service	Verified
H.H.11N	Authorisation/Certification Service	Verified
H.H.12N	Safety Audit Service	Verified
H.H.13N	Fire Protection Consultancy Service	Verified
H.H.14N	Competence Management Service	Verified
H.H.1N	Occupational Health Consultancy Service	Verified
H.H.2N	Occupational Safety Consultancy Service	Verified
H.H.9N	Construction Safety Consultancy Service	Verified
H.K.10.1N	Acoustics Service	Verified
H.K.10.2N	Scientific & Laboratory Services Service	Verified
H.K.10.3N	Product Reliability Service	Verified
H.K.10.4N	Pedestrian Simulation Service	Verified
H.K.10.5N	Ergonomics & Human Factors Service	Verified
H.K.10.6N	Engineering R&D Service	Verified
H.K.11.1N	Business/Strategic Risk Service	Verified
H.K.11.2N	Project Risk Service	Verified
H.K.11.3N	Safety Risk Service	Verified
H.K.11.4N	Fire Risk Service	Verified
H.K.13N	Value Management Service	Verified
H.K.2N	Management Consultancy Service	Verified
H.K.3.1N	Estimating Service	Verified
H.K.3.2N	Pre Contract Commercial Management Service	Verified
H.K.3.3N	Post Contract Commercial Management Service	Verified

## RICCL Code Summary

<u>RICCL Code</u>	<u>Name</u>	<u>Status</u>
H.K.3.4N	Civils & Track Estimating Service	Verified
H.K.3.5N	Estate/Buildings Estimating Service	Verified
H.K.3.6N	Claims Service	Verified
H.K.3.7N	Supplier Qualification Service	Verified
H.K.4.7N	Business Management Service	Verified
H.K.8.1N	Clerk of Works Service	Verified
H.K.8.2N	Programme Management Service	Verified
H.K.8.3N	Project Planning Service	Verified
H.K.9.2N	Quality Management Systems Service	Verified
H.K.9.4N	Development & Review of Fixed Infrastructure Plant Standards Service	Verified
H.L.1.2N	Valuation Advice Service	Verified
H.L.1.4N	Service Charge Management Service	Verified
H.L.1.5N	Archaeological Services Service	Verified
H.L.1.6N	Town Planning Service	Verified
H.L.1.7N	Land Surveying Service	Verified
H.L.1.8N	Operational Property Consultancy Service	Verified
H.L.1.9N	Dilapidations Service	Verified
H.L.2.1N	Building Consultancy Service	Verified
H.L.2.2N	Development & Review of Building Standards Service	Verified