

# RISQS

RAILWAY INDUSTRY SUPPLIER  
QUALIFICATION SCHEME

RISQS Product  
and Service Codes  
(RICCL) Brochure



# Explaining RISQS Product and Service Codes (RICCL)

## Product and Service Codes

The product and service codes used within RISQS are taken directly from the Rail Industry Commodity Classification List or “RICCL”.

By selecting the codes that reflect their business activities, suppliers make themselves available for selection within buyer searches.

## What is RICCL?

The Railway Industry Commodity Classification List includes all commodities that are purchased to support GB railway operations and provides a common vocabulary for the benefit of both buyers and suppliers who are participants in railway supply.

It aligns with international standards (especially ISO 81346) while utilising the best of existing models. This will allow “mapping” from existing systems to the new structure.

## Structure

The Commodity Classification System is a hierarchical classification system used by the railway industry. All entities are identified with a structured alpha-numeric code which both indicates its location in the list and uniquely classifies it.

The Commodity Classification System is split into eight sub-systems. Each sub-system consists of its classes. These could be termed as its ‘children’. Each class is part of its subsystem; this could be termed its ‘parent’. The prefixes A-H identify which sub-system a commodity belongs to.

## RICCL Levels

- A** Transverse Railway Services and Supplies
- B** Control Command and Signalling
- C** Infrastructure
- D** Plant
- E** Rail Vehicles
- F** Energy
- G** Operations and Traffic Management
- H** General Business Supplies & Services

Further information can be found here: [www.risqs.org](http://www.risqs.org)

# RISQS Product & Services Activities

M-Manufacture	N-Provide Service	P-Supply	Q-Design	R-Operate	S-Construct/Build	T-Commission
Applicable to original manufacturers of products, on-track plant, attachments and associated equipment	<p>Applicable to providers of a complete service including consultancy and to owners of plant who hire to others.</p> <p>Please note that where you are supplying an operator, and dependent on the type plant, you will also need to hold the relevant contingent Labour code A.A.1.8 (Plant Operators) or A.A.1.9 (OTP Operators).</p>	Applicable to suppliers/ original equipment manufacturers of on-track plant, attachments and associated safety critical equipment.	Applicable to suppliers providing outline or detailed design services.	Applicable to suppliers engaged in the control and management of on-track plant operations.	Applicable to suppliers who undertake building or civil engineering works “on-site” including the construction, disassembling and dismantling of assets	Applicable to suppliers who undertake commissioning of installations and construction work
U-Dispose	V-Maintain	W-Overhaul	X-Install	Y-Modify	Z-Decommission	
Applicable to supplier who undertake the removal and disposal of assets including materials and parts.	Applicable to suppliers offering the service of maintenance, repair and cleaning of assets and plant including on-track plant to others.	Applicable to suppliers offering the service of refurbishment of assets and plant off site including on-track plant to others.	Applicable to suppliers who undertake installation works “on-site”	Applicable to suppliers offering the service of modification, upgrading and retrofitting of buildings, structures, or on-track plant to others.	Applicable to suppliers who undertake decommissioning of installations and construction work	

## What are Product & Service Activities?

The RICCL product and service codes used by RISQS are defined by Product & Service Activities at their final level in the hierarchy. Further information relating to those activities can be found above.

## Product Code Type

**V – Verification:** these RICCL codes require verification of a supplier's RISQS profile answers before publication of the applicable status.

**A – Auditable:** in addition to the above, these codes will require a RISQS audit. Please note, a RISQS audit may also be triggered via alternative routes eg. answers to specific profile questions.

## Contact RISQS

If you have any questions regarding these activities, please contact the RISQS team on **(0) 800 4101 300** or email **info@risqs.org**

## Special Assessments:

### Requirement of and Recognition of Third-Party Authorisations, Licenses, Certification

For products or services that have a mandatory requirement it is now required that a supplier hold the relevant authorisation, license, or certification for the below product codes in order to offer these services through RISQS. The respective attestations are to be made available to RISQS and will be requested by the data checking team.

### Environment Agency issued license for:

H.G.3.2 - Waste Disposal - Hazardous/Toxic - SERVICE

H.G.3.3 - Waste Disposal – Non-Hazardous & Non-Toxic - SERVICE

A.A.2.3.2 - Used Ballast Disposal - SERVICE

A.A.2.4 - Used Materials & Rail Clearance/Disposal - SERVICE

### NSAR membership for:

A.B.5.6 - Track Safety Training - SERVICE

### CAA Permission for Aerial Work and hold certification from a CAA approved National Qualified Entity (NQE) for:

C.C.3.2.31 - Provision of Unmanned Aerial Vehicles (Drones) over 50 meters from infrastructure – SERVICE

### Holder of POS for:

D.B.1 - On-Track-Plant (OTP) with/without operator - OPERATE



RICCL Code	Product / Service	M-Manufacture	N-Service	P-Supply	Q-Design	R-Operate	S-Construction	T-Commission	U-Dispose	V-Maintain	W-Overhaul	X-Install	Y-Modify	Z-Decommission	Old Code
A.B.1.4	Locks & Latches	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.04
A.B.1.5	Batteries	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.05
A.B.1.6	Horns & Whistles	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.06
A.B.1.7	Lamps & Spares	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.07
A.B.1.8	Flags	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.08
A.B.1.9	Lineside Signs (Including Signalling, Electrification & Track Datum Plates)	V	-	V	-	-	-	-	-	-	-	-	-	-	07.19.09
A.B.2	Fasteners	V	V	V	-	-	-	-	-	-	-	-	-	-	07.90.01 07.90.04
A.B.3	Station & Building Signs	V	-	V	-	-	-	-	-	-	-	-	-	-	07.90.06
A.B.4	Materials & Parts (Ancillary Staff Equipment/Facilities Supplies)	-	-	V	-	-	-	-	-	-	-	-	-	-	07.90.05
A.B.5	Safety Management (Specific to Railway)														
A.B.5.1	Railway Safety Consultancy	-	V	-	-	-	-	-	-	-	-	-	-	-	07.13.01
A.B.5.2	Development & Review of Safety Standards	-	V	-	-	-	-	-	-	-	-	-	-	-	04.77.02
A.B.5.3	Submissions to HMRI/ORR	-	V	-	-	-	-	-	-	-	-	-	-	-	04.77.04
A.B.5.4	Accident/Incident Investigation	-	V	-	-	-	-	-	-	-	-	-	-	-	04.77.05
A.B.5.5	Safety Management System Review	-	V	-	-	-	-	-	-	-	-	-	-	-	04.77.06
A.B.5.6	Track Safety Training (NSAR)	-	V	-	-	-	-	-	-	-	-	-	-	-	07.07.01
B	Control Command and Signalling														
B.B	Control Command and Signalling - Onboard														
B.B.1	Electronic Control System (ETCS)														
B.B.1.1	European Vital Computer (EVC)	V	-	V	V	-	-	V	V	V	V	V	V	V	16.86.09
B.B.1.2	Specific Transmission Module (STM)	V	-	V	V	-	-	V	V	V	V	V	V	V	16.86.09
B.B.1.3	Juridical Recorder Unit (JRU)	V	-	V	V	-	-	V	V	V	V	V	V	V	16.86.09
B.B.1.4	Train Interface Unit (TIU)	V	-	V	V	-	-	V	V	V	V	V	V	V	16.86.09
B.B.2	Heritage Automatic Train Protection (ATP) unit	V	-	V	A	-	-	A	V	A	A	A	A	A	01.10.01
B.B.3	Automatic Train Operation (ATO) unit	V	-	V	A	-	-	A	V	A	A	A	A	A	16.86.10
B.B.4	Operations Radio System	V	-	V	V	-	-	V	V	V	V	A	A	A	16.88.11
B.B.5	GSM-R	V	-	V	V	-	-	V	V	V	V	V	V	V	16.88.12
B.C	Control Command and Signalling - Trackside														
B.C.1	Signalling														
B.C.1.1	Train Detection Systems														
B.C.1.1.1	Track Circuits (including Level Crossings)	V	-	V	A	-	-	A	V	A	A	A	A	A	01.01.01
B.C.1.1.2	Track Circuit Interrupters	V	-	V	A	-	-	A	V	A	A	A	A	A	01.01.02
B.C.1.1.3	Axle Counters (including Level Crossings)	V	-	V	A	-	-	A	V	A	A	A	A	A	01.01.03
B.C.1.1.4	Treadles (including Level Crossings)	V	-	V	A	-	-	A	V	A	A	A	A	A	01.01.04
B.C.1.10	Train Protection Systems														
B.C.1.10.1	ATP Equipment	V	-	V	A	-	-	A	V	A	A	A	A	A	01.10.01
B.C.1.10.2	AWS Track Equipment	V	-	V	A	-	-	A	V	A	A	A	A	A	01.10.02
B.C.1.10.3	TPWS & Associated Equipment	V	-	V	A	-	-	A	V	A	A	A	A	A	01.10.03
B.C.1.10.4	Tilt Authorisation & Speed Supervision Equipment	V	-	V	A	-	-	A	V	A	A	A	A	A	01.10.04
B.C.1.11	Transmission														
B.C.1.11.1	Reed FDM Vital	V	-	V	A	-	-	A	V	A	A	A	A	A	01.11.01
B.C.1.11.2	Reed FDM Non Vital	V	-	V	A	-	-	A	V	A	A	A	A	A	01.11.02
B.C.1.11.3	TDM	V	-	V	A	-	-	A	V	A	A	A	A	A	01.11.03
B.C.1.11.4	Signalling Cable	V	-	V	A	-	-	A	V	A	A	A	A	A	01.11.04
B.C.1.12	Event Logging & Condition Monitoring														
B.C.1.12.1	Condition Monitoring	V	-	V	A	-	-	A	V	A	A	A	A	A	01.12.01
B.C.1.12.2	Electronic Digital System Event Loggers	V	-	V	A	-	-	A	V	A	A	A	A	A	01.12.02
B.C.1.12.3	Voltage Free Relay Event Loggers	V	-	V	A	-	-	A	V	A	A	A	A	A	01.12.03
B.C.1.13	Materials & Parts (Signalling)	V	-	V	-	-	-	-	-	-	-	-	-	-	01.90.01
B.C.1.2	Lineside Signals & Indicators														
B.C.1.2.1	Colour Light Signals	V	-	V	A	-	-	A	V	A	A	A	A	A	01.02.01
B.C.1.2.10	Train Ready To Start (TRTS)	V	-	V	A	-	-	A	V	A	A	A	A	A	01.02.10
B.C.1.2.11	Marker Posts - Shunt & SPAD Indicators	V	-	V	A	-	-	A	V	A	A	A	A	A	01.02.11













RICCL Code	Product / Service	M-Manufacture	N-Service	P-Supply	Q-Design	R-Operate	S-Construction	T-Commission	U-Dispose	V-Maintain	W-Overhaul	X-Install	Y-Modify	Z-Decommission	Old Code
C.C.3.4.3.1	Lineside Tree & Scrub Clearance	-	V	-	-	-	-	-	-	-	-	-	-	-	04.03.01 04.03.03
C.C.3.4.3.2	Vegetation Management (On Network Rail Controlled Infrastructure)	-	V	-	-	-	-	-	-	-	-	-	-	-	04.03.02
C.C.3.4.3.3	Weed Killing/Vegetation Management (Off Network Rail Controlled Infrastructure)	-	V	-	-	-	-	-	-	-	-	-	-	-	04.04.01
C.C.3.4.4	Fatality Management	-	V	-	-	-	-	-	-	-	-	-	-	-	04.07.01
C.C.3.4.5	Rail Conditioning Services														
C.C.3.4.5.1	Thermic Welding	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.01
C.C.3.4.5.2	Arc Welding	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.02
C.C.3.4.5.3	Flash Butt Welding	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.03
C.C.3.4.5.4	Rail Stressing	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.04
C.C.3.4.5.5	Stress Assessment (Verse Testing)	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.05
C.C.3.4.5.6	Ultrasonic Testing (Non Train-Borne)	-	A	-	-	-	-	-	-	-	-	-	-	-	07.05.06
C.C.3.4.6	Rail Adhesion Services														
C.C.3.4.6.1	Rail Lubrication Applicators	V	-	V	A	-	A	-	A	A	-	A	A	-	07.04.01
C.C.3.4.6.2	Rail Grinding (Non Train-Borne)	-	A	-	-	-	-	-	-	-	-	-	-	-	07.04.02
C.C.3.4.7	Infrastructure Fences, Barriers & Boundary Gates														
C.C.3.4.7.1	Concrete Fences	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.01
C.C.3.4.7.10	Absorptive Barriers	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.10
C.C.3.4.7.11	Reflective Barriers	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.11
C.C.3.4.7.12	Access Way & Steps	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.12
C.C.3.4.7.2	Timber Fences	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.02
C.C.3.4.7.3	Metal Fences	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.03
C.C.3.4.7.4	Plastic Fences	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.04
C.C.3.4.7.5	Boundary Gates	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.05
C.C.3.4.7.6	Level Crossing Stiles, Gates & Barriers	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.06
C.C.3.4.7.7	Safety Barriers & Restraints	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.07
C.C.3.4.7.8	Noise Barriers	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.08
C.C.3.4.7.9	Acoustic Linings	V	-	V	V	-	V	-	V	V	-	V	V	-	07.01.09
C.C.3.4.8	Earthworks														
C.C.3.4.8.1	Earthworks (Embankments, Cuttings etc.)	-	-	-	A	-	-	-	A	A	-	A	A	-	12.04.12
C.C.3.4.8.10	Ground Stabilisation (including Lime)	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.19
C.C.3.4.8.2	Coastal/Estuary Defences														
C.C.3.4.8.2.1	Concrete Sea Walls (Reinforced, Mass & Precast)	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.06
C.C.3.4.8.2.2	Rock Armour	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.07
C.C.3.4.8.2.3	Groynes	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.08
C.C.3.4.8.2.4	Off Shore Breakwaters	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.09
C.C.3.4.8.2.5	Revetments (Stone & Concrete)	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.10
C.C.3.4.8.2.6	Cliff Stabilisation (Including Rock Anchors, Netting & Scaling)	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.11
C.C.3.4.8.3	Retaining Walls														
C.C.3.4.8.3.1	Masonry Structures	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.01
C.C.3.4.8.3.2	Concrete Structures (Mass & Reinforced)	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.02
C.C.3.4.8.3.3	Reinforced Earth Structures	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.03
C.C.3.4.8.3.4	Gabion Walls	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.04
C.C.3.4.8.3.5	Sheet Pile Walls	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.05
C.C.3.4.8.4	Ground Anchors	V	-	V	A	-	A	A	A	A	-	A	A	A	12.04.13
C.C.3.4.8.5	Soil Nailing	V	-	V	A	-	A	A	A	A	-	A	A	A	12.04.14
C.C.3.4.8.6	Earthworks Drainage	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.15
C.C.3.4.8.7	Rock Netting	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.16
C.C.3.4.8.8	Rock Scaling	V	-	V	A	-	A	-	A	A	-	A	A	-	12.04.17
C.C.3.4.8.9	Rock Anchors	V	-	V	A	-	A	A	A	A	-	A	A	A	12.04.18

RICCL Code	Product / Service	M-Manufacture	N-Service	P-Supply	Q-Design	R-Operate	S-Construction	T-Commission	U-Dispose	V-Maintain	W-Overhaul	X-Install	Y-Modify	Z-Decommission	Old Code
C.C.3.4.9	Isolations Management Service	-	A	-	-	-	-	-	-	-	-	-	-	-	07.08.02
C.C.4	Materials & Parts (Civils)	V	-	V	-	-	-	-	-	-	-	-	-	-	12.90.01
C.D	Stations and Depot Building Works														
C.D.1	Substructure & Superstructure														
C.D.1.1	Foundations (Piled)	V	-	V	A	-	A	-	V	A	-	A	A	-	08.01.01
C.D.1.2	Foundations (Conventional)	V	-	V	A	-	A	-	V	A	-	A	A	-	08.01.02
C.D.1.3	Steel Frame	V	-	V	A	-	A	-	V	A	-	A	A	-	08.01.03
C.D.1.4	Concrete Frame	V	-	V	A	-	A	-	V	A	-	A	A	-	08.01.04
C.D.1.5	Timber Frame	V	-	V	A	-	A	-	V	A	-	A	A	-	08.01.05
C.D.2	Building Work														
C.D.2.1	Roofing	V	-	V	A	-	A	-	V	A	A	A	A	-	08.03.03
C.D.2.10	External Works (Drainage, Including Surface, Foul & Sewerage Treatment)	V	-	V	A	-	A	-	V	A	A	A	A	-	08.01.14
C.D.2.11	Minor Building Work (Including Ancillary Buildings & Alterations to Existing Buildings)	V	-	V	A	-	A	-	V	A	A	A	A	-	08.01.15
C.D.2.2	Stairs	V	-	V	A	-	A	-	V	A	A	A	A	-	08.01.06
C.D.2.3	External Walls	V	-	V	A	-	A	-	V	A	A	A	A	-	08.01.07
C.D.2.4	Windows & External Doors	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.08
C.D.2.5	Internal Walls & Partitions	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.09
C.D.2.6	Internal Doors	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.10
C.D.2.7	Internal Finishes (Wall, Floor & Ceiling)	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.11
C.D.2.8	Fittings & Furnishings	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.12
C.D.2.9	External Works (Paving & Landscaping)	V	-	V	V	-	V	-	V	V	V	V	V	-	08.01.13
C.D.3	Building Services														
C.D.3.1	Sanitary Appliances & Disposal Installations	V	-	V	V	-	-	V	V	V	-	V	V	V	08.04.01
C.D.3.2	Water Installations	V	-	V	V	-	-	V	V	V	-	V	V	V	08.04.02
C.D.3.3	Space Heating & Air Treatment (Central & Local)	V	-	V	V	-	-	V	V	V	-	V	V	V	08.04.03
C.D.3.4	Forced Ventilation Systems	V	-	V	A	-	-	A	V	A	A	A	A	A	08.04.04
C.D.3.5	Electrical Installations	V	-	V	A	-	-	A	V	A	A	A	A	A	08.04.05
C.D.3.6	Gas Installations	V	-	V	A	-	-	A	V	A	A	A	A	A	08.04.06
C.D.3.7	Protective Installations	V	-	V	A	-	-	A	V	A	A	A	A	A	08.04.07
C.D.3.8	Communications Installations	V	-	V	V	-	-	V	V	V	-	V	V	V	08.04.08
C.D.3.9	Special Installations (Including Window Cleaning Cradles, Water Treatment Systems, Refrigeration)	V	-	V	A	-	-	A	V	A	A	A	A	A	08.04.09
C.D.4	Specialist Services														
C.D.4.1	Canopies (Stations & Depots)	V	-	V	A	-	A	A	V	A	A	A	A	-	08.03.01
C.D.4.2	Major Station & Concourse Roofs	V	-	V	A	-	A	A	V	A	A	A	A	-	08.03.02
C.D.4.3	Specialist Doors & Windows	V	-	V	A	-	-	-	V	A	-	A	A	-	08.01.16
C.D.4.4	Roller Shutters & Security Grills	V	-	V	A	-	-	-	V	A	A	A	A	-	08.01.17
C.D.4.5	Ticket Barriers	V	-	V	A	-	-	A	V	A	A	A	A	A	08.01.18
C.D.4.6	Turnstiles	V	-	V	A	-	-	A	V	A	A	A	A	A	08.01.19
C.D.4.7	Steeplejack Services	-	A	-	-	-	-	-	-	-	-	-	-	-	04.21.21
C.D.4.8	Exhaust Extraction	V	-	V	A	-	-	A	V	A	A	A	A	A	08.01.20
C.D.4.9	Modular Buildings & REBs (For Equipment Installation)	V	-	V	A	-	-	A	V	A	A	A	A	A	08.02.01 08.02.02
C.D.5	Shopfitting	-	V	-	-	-	-	-	-	-	-	-	-	-	08.04.10
C.D.6	Lifts & Escalators														
C.D.6.1	Lifts	V	-	V	A	-	-	A	V	A	A	A	A	A	08.07.01
C.D.6.2	Escalators	V	-	V	A	-	-	A	V	A	A	A	A	A	08.08.01
C.D.7	Operational Walkways & Platforms														
C.D.7.1	Platforms Including Copers, Paving & Tarmac	V	-	V	A	-	A	-	A	A	A	A	A	-	08.05.01
C.D.7.2	Platform Face Walls	V	-	V	A	-	A	-	A	A	-	A	A	-	08.05.02
C.D.7.3	Modular Platforms Including Trestle	V	-	V	A	-	A	-	A	A	-	A	A	-	08.05.03
C.D.7.4	Raised Walkways	V	-	V	A	-	A	-	A	A	-	A	A	-	08.05.04
C.D.7.5	Authorised Walking Routes & Access Points	V	-	V	A	-	A	-	A	A	-	A	A	-	08.05.05
C.D.7.6	Paths & Safe Cess	V	-	V	A	-	A	-	A	A	-	A	A	-	08.05.06





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E.J.11.1	Development & Review of Rail Vehicle (Infrastructure) Standards	-	V	-	-	-	-	-	-	-	-	-	-	-	07.14.02
E.J.11.2	Rail Vehicles Design and Consultancy	-	V	-	-	-	-	-	-	-	-	-	-	-	07.14.01
E.J.12	Competent Person	-	V	-	-	-	-	-	-	-	-	-	-	-	
E.J.13	Spares management	-	V	-	-	-	-	-	-	-	-	-	-	-	
E.J.14	Trainborne Infrastructure Monitoring Equipment	-	V	V	-	-	-	-	-	-	-	-	-	-	07.18.01
E.J.2	Interior Train Cleaning	-	V	-	-	-	-	-	-	-	-	-	-	-	04.32.05
E.J.3	Crash Damage/Repair	-	V	-	-	-	-	-	-	-	-	-	-	-	
E.J.4	Corrosion Repair	-	V	-	-	-	-	-	-	-	-	-	-	-	
E.J.5	Painting	-	V	-	-	-	-	-	-	-	-	-	-	-	
E.J.6	Vinyl Wrap	-	V	-	-	-	-	-	-	-	-	-	-	-	16.08.02
E.J.7	Non-Destructive Testing (Rail Vehicles)	-	V	-	-	-	-	-	-	-	-	-	-	-	16.08.01
E.J.8	Oil Testing & Monitoring	-	V	-	-	-	-	-	-	-	-	-	-	-	16.08.03
E.J.9	Condition Monitoring of Rail Vehicles	-	V	-	-	-	-	-	-	-	-	-	-	-	16.08.04
E.K	Materials and Parts for Rail Vehicles														
E.K.1	Transverse Vehicle Parts														
E.K.1.1	Bearings														
E.K.1.1.1	Plastic	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.01
E.K.1.1.2	Roller	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.01
E.K.1.1.3	White Metal	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.01
E.K.1.10	Seals and Gaskets														
E.K.1.10.1	Gasket	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.12
E.K.1.10.2	Dynamic seal	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.12
E.K.1.11	Cable														
E.K.1.11.1	Single core cables < 5mm2	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13
E.K.1.11.2	Single core cables => 5mm2	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13
E.K.1.11.3	Multicore cables	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13
E.K.1.11.4	Cable Harness	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13 16.80.15
E.K.1.11.5	Cable markers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13
E.K.1.11.6	Cable Ducts and Conduit	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13 16.80.18
E.K.1.11.7	General Purpose Springs and Clips	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.13
E.K.1.12	Machined Components	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.19
E.K.1.13	Fabricated Components	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.20
E.K.1.14	Timber Products														
E.K.1.14.1	Plywood	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.22
E.K.1.14.2	Fire resistant plywood	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.22
E.K.1.15	Paint and Varnish														
E.K.1.15.1	Coating	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.23
E.K.1.15.2	Intumescent Paint	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.23
E.K.1.16	Lubricants														
E.K.1.16.1	Grease	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.24
E.K.1.16.2	Oil	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.24
E.K.1.17	Sealants and Adhesive														
E.K.1.17.1	Silicone	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.25
E.K.1.17.2	Thread locking adhesive	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.25
E.K.1.2	Connectors														
E.K.1.2.1	Plugs and Sockets	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.10
E.K.1.2.2	Connecting Material	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.16
E.K.1.3	Cabinets, Rack systems and Enclosures														
E.K.1.3.1	Cabinets, Rack Systems, Frames and Panels	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.03 16.80.04
E.K.1.4	Fastener														
E.K.1.4.1	General Purpose Fasteners	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.06



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E.K.1.4.2	Critical Fasteners	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.06
E.K.1.5	Filters														
E.K.1.5.1	Compressed air filters	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.07 16.80.07
E.K.1.5.2	Atmospheric air filters	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.07 16.80.07
E.K.1.5.3	Oil/Fuel Filters	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.07 16.80.07
E.K.1.6	Hoses														
E.K.1.6.1	Compressed Air Hose	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.08
E.K.1.6.2	Vacuum Hose	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.08
E.K.1.6.3	Liquid Hose	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.08
E.K.1.6.4	Waste hose	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.08
E.K.1.7	Electrical Components/Assemblies														
E.K.1.7.1	Circuit Breakers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.09
E.K.1.7.2	Printed circuit boards	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.09
E.K.1.7.3	Relays	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.09
E.K.1.7.4	Indicators	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.09
E.K.1.7.5	Switches	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.09
E.K.1.7.6	Control & Display Unit	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.05 16.80.09
E.K.1.8	Pipes and Fittings	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.02
E.K.1.9	Rubber Components														
E.K.1.9.1	Rubber matting	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.11
E.K.1.9.2	Rubber composite bushes	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.11
E.K.10	Monitoring, communication and safety devices														
E.K.10.1	Measuring and protective devices	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.01
E.K.10.2	Indicating, recording, display devices														
E.K.10.2.1	Fault indicators	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.02 16.88.02
E.K.10.2.2	On-train monitoring and recording (OTMR)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.02 16.88.02 16.88.03
E.K.10.2.3	Condition Monitoring	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.02 16.88.02 16.88.04
E.K.10.2.4	Judicial recorder	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.02 16.88.02 16.88.05
E.K.10.2.5	Video surveillance	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.02 16.88.02 16.88.06
E.K.10.2.6	System Data Acquisition	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.13 16.88.02 16.88.02
E.K.10.3	Safety devices														
E.K.10.3.1	Heritage Automatic Train Protection (ATP) Unit	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.07 16.88.08
E.K.10.3.2	Horn	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.07
E.K.10.3.3	Fire protection system														
E.K.10.3.3.1	Fire detection system	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.10
E.K.10.3.3.2	Fire extinguishing system	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.09
E.K.10.4	Data transmission devices	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.10.5	Communication equipment														
E.K.10.5.1	Operations radio system	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.11 16.88.12



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E.K.14.1	Passenger Information Display	V	-	V	V	-	-	-	-	V	V	V	V	-	16.93.01
E.K.14.2	Entertainment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.93.03
E.K.14.3	Advertising	V	-	V	V	-	-	-	-	V	V	V	V	-	16.93.04
E.K.14.4	Public Address System	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.15	Pneumatic/hydraulic systems														
E.K.15.1	Air Compressor														
E.K.15.1.1	Main Air Compressor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.02
E.K.15.1.2	Auxiliary Air Compressor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.02
E.K.15.2	Air treatment														
E.K.15.2.1	Aftercooler	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.03
E.K.15.2.2	Air Filter	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.03
E.K.15.2.3	Air Driers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.03
E.K.15.3	Air Reservoir	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.01 16.94.04
E.K.15.4	Air distribution and control														
E.K.15.4.1	Valves	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.4.2	Gauges	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.4.3	Governor (Pressure Switch)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.4.4	Safety Valve	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.4.5	Pressure Reducing Valve	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.4.6	Automatic Drain Valve	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.05
E.K.15.5	(Hydraulic system) pumps														
E.K.15.5.1	Hydraulic (Hydrostatic) Motor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.06
E.K.15.6	(Hydraulic system) treatment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.01 16.94.07
E.K.15.7	(Hydraulic system) storage	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.01 16.94.08
E.K.15.8	(Hydraulic system) distribution and control														
E.K.15.8.1	Valves	V	-	V	V	-	-	-	-	V	V	V	V	-	16.94.09
E.K.16	Brake														
E.K.16.1	Supplementary Brake Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.01 16.95.02
E.K.16.2	Friction brake components														
E.K.16.2.1	Brake Pad	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.03 16.95.03
E.K.16.2.2	Brake Block	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.03 16.95.03
E.K.16.3	Mechanical brake force transmission														
E.K.16.3.1	Brake Actuator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.04
E.K.16.3.2	Brake Rigging	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.04
E.K.16.3.3	Calipers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.04
E.K.16.3.4	Links and Pins	V	-	V	V	-	-	-	-	V	V	V	V	-	16.95.04
E.K.16.4	Vehicle Brake Control														
E.K.16.4.1	Wheel slip/slide protection (WSP) equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.06
E.K.16.4.2	Electronic Brake Control Unit	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.07
E.K.16.4.3	Distributor	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.16.5	Train Brake Control Equipment														
E.K.16.5.1	Electrical Control Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.05
E.K.16.5.2	Pneumatic Control Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.05 16.86.08
E.K.17	Vehicle linkage devices														
E.K.17.1	Automatic (mechanical) coupling devices	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01 16.96.02
E.K.17.10	Drumswitch	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01
E.K.17.11	Inter-vehicle dampers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01

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E.K.17.2	Manual coupling devices	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01 16.96.03
E.K.17.3	Semi-Permanent Coupler	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01 16.96.04
E.K.17.4	Vehicle-vehicle interface for, signals, power, compressed-air														
E.K.17.4.1	Electrical Control or Data Jumpers and Sockets	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.08
E.K.17.4.2	Electrical Power Jumpers and Sockets	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.08
E.K.17.5	Combined Mechanical, Air and Electric Autocoupler														
E.K.17.5.1	Compact coupling system	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.17.5.2	Scharfenberg	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.17.5.3	Wedgelock	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.17.6	Towing gear (emergency couplings)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01 16.96.06
E.K.17.7	Drawgear	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01
E.K.17.8	Buffing gear														
E.K.17.8.1	Hydraulic buffers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.05
E.K.17.8.2	Spring buffers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.05
E.K.17.8.3	Rolling rubber buffers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.05
E.K.17.9	Gangways	V	-	V	V	-	-	-	-	V	V	V	V	-	16.96.01 16.96.07
E.K.2	Vehicle Structure and Body														
E.K.2.1	Vehicle body shell														
E.K.2.1.1	Insulation	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.10
E.K.2.1.10	Crash Structure	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.06
E.K.2.1.11	Full Vehicle body shell	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.01
E.K.2.1.2	Underframe	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.02
E.K.2.1.3	Side walls	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.03
E.K.2.1.4	Roof	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.04
E.K.2.1.5	Head of vehicle	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.05
E.K.2.1.6	End wall	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.07
E.K.2.1.7	Intermediate horizontal structure	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.09
E.K.2.1.8	Structural partitions	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.10
E.K.2.1.9	Weld-on/Add-on Parts														
E.K.2.1.9.1	Obstacle Deflectors	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.08
E.K.2.1.9.2	Anti Climbers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.08
E.K.2.1.9.3	Bolsters	V	-	V	V	-	-	-	-	V	V	V	V	-	16.81.08
E.K.2.2	Windows and Windscreen														
E.K.2.2.1	Front Windscreen	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.03
E.K.2.2.2	Opening windows	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.03
E.K.2.2.3	Glazing Units	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.03
E.K.3	Vehicle Fitting Out and Interiors														
E.K.3.1	Train Crew Facilities														
E.K.3.1.1	Sunblinds	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.02
E.K.3.1.2	Wipers/Washing System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.02 16.82.05
E.K.3.1.3	Windscreen heating system	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.02 16.82.04
E.K.3.10	Emergency Equipment														
E.K.3.10.1	Fire Extinguishing Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.15
E.K.3.10.2	Ladder	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.15
E.K.3.10.3	First Aid	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.15
E.K.3.10.4	Wheelchair Ramp	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.15
E.K.3.10.5	Track Protection Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.88.15
E.K.3.11	Labels and Signs	V	-	V	V	-	-	-	-	V	V	V	V	-	16.82.01 16.93.02



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E.K.4.1.4.1	Earthing Return and Bonding	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.15 16.83.16
E.K.4.1.4.2	Axle Brush	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.15
E.K.4.1.4.3	Lifeguard	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.15 16.83.17
E.K.4.1.4.4	Safety add-ons														
E.K.4.1.4.4.1	Sanding Delivery equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.18 16.91.01
E.K.4.1.4.4.2	Hotbox detector	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.18
E.K.4.1.4.5	Flange Lubrication System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.15 16.91.02
E.K.4.2	Wheel set														
E.K.4.2.1	Axle	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05 16.83.06
E.K.4.2.2	Wheel	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05 16.83.07
E.K.4.2.3	Axlebox	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05 16.83.08
E.K.4.2.4	Wheel Bearing	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05
E.K.4.2.5	Gearwheel	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05
E.K.4.2.6	Brake Disc	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05
E.K.4.2.7	TM Sus Tube	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.05
E.K.4.3	Springs and Suspension Components														
E.K.4.3.1	Adjustment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.09 16.83.10
E.K.4.3.2	Metal springs	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.10
E.K.4.3.3	Rubber springs	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.10
E.K.4.3.4	Airbag	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.10
E.K.4.3.5	Active Components	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.10 16.83.11
E.K.4.3.6	Passive Components	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.10 16.83.12
E.K.4.4	Dampers	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.01 16.83.14
E.K.4.5	Bogie to Vehicle Attachment														
E.K.4.5.1	Bogie Centre Connection	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.4.5.2	Electrical Connections	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.4.5.3	Pneumatic Connections	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.4.5.4	Bumpstops	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.4.5.5	Anti Roll Bar	V	-	V	V	-	-	-	-	V	V	V	V	-	16.83.13
E.K.4.6	Tilt mechanism														
E.K.4.6.1	Actuator	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.4.6.2	Tilt Beams and Links	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5	Traction Power System														
E.K.5.1	AC Overhead Equipment														
E.K.5.1.1	Pantograph	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.03 16.84.06
E.K.5.1.2	Roof Disconnecter inc Earthing Switch	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.06
E.K.5.1.3	Lightning Arrestor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.06
E.K.5.1.4	System Changeover Switch	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.06
E.K.5.1.5	Current Transducer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.06
E.K.5.1.6	Voltage Transducer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.06
E.K.5.2	DC 3rd Rail Equipment														
E.K.5.2.1	Third rail shoe/gear	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.04
E.K.5.2.2	Shoe Fuse	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.04
E.K.5.2.3	Arc Guard	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.04

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E.K.5.3	Power circuit breakers														
E.K.5.3.1	HS Circuit Breaker	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.05
E.K.5.3.2	Air Blast Circuit Breaker	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.05
E.K.5.3.3	Vacuum Circuit Breaker	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.05
E.K.5.4	HV transformer														
E.K.5.4.1	Main Transformer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.07
E.K.5.4.2	Transformer Radiator	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5.4.3	Transformer Oil Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5.4.4	Bucholz Switch	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5.4.5	Silica Gel Breather	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5.5	HV Cables														
E.K.5.5.1	HT Cable	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.14
E.K.5.5.2	Insulators/Bushing	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.17
E.K.5.5.3	Roof Cable	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.5.5.4	Power Supply	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.01 16.84.02
E.K.6	Power generation														
E.K.6.1	Internal combustion engine														
E.K.6.1.1	Engine Mount	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.09 16.84.09
E.K.6.1.2	Cylinder Head	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.09
E.K.6.1.3	Lube Oil Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.09
E.K.6.2	Exhaust gas facility														
E.K.6.2.1	Exhaust Bellows	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.10
E.K.6.2.2	Silencer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.10
E.K.6.3	Fuel System														
E.K.6.3.1	Fuel Tank	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.3.2	Fuel Lift Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.3.3	High Pressure Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.3.4	Governor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.3.5	Fuel Rack	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.3.6	Electronic Control System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.12
E.K.6.4	Air Intake														
E.K.6.4.1	Turbo Charger	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.6.4.2	Inter Cooler	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.6.5	Starter Motor														
E.K.6.5.1	Starter Control Unit	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.6.6	Cooling System														
E.K.6.6.1	Radiator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.05
E.K.6.6.2	Water Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.05
E.K.6.6.3	Radiator Fan	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.05
E.K.6.6.4	Coolant Header Tank	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.05
E.K.6.7	Traction Alternator / Generator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.84.08 16.85.04
E.K.7	Propulsion and Dynamic Braking														
E.K.7.1	Traction and braking converters	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.01 16.85.02
E.K.7.10	Mechanical transmission														
E.K.7.10.1	Drive Shaft														
E.K.7.10.1.1	Shaft	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.1.2	Coupling	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.2	Gear Box (Mechanical Drive)														
E.K.7.10.2.1	Couplings	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.2.2	Sensors	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.2.3	Mountings	V	-	V	V	-	-	-	-	V	V	V	V	-	



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E.K.7.10.2.4	Torque Link	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.3	Final Drive	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.05
E.K.7.10.4	Final Drive(For Traction Motor)														
E.K.7.10.4.1	Gear Case	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.10.4.2	Seals	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.11	Hydraulic Traction Equipment	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.01 16.85.14
E.K.7.2	Frequency Monitoring Unit														
E.K.7.2.1	Electronic Modules	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.2.2	Cards	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.3	Rectifier														
E.K.7.3.1	Fan	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.3.2	Power Electronic Modules	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.3.3	Power Electronic Devices	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.7.4	Switchgear														
E.K.7.4.1	Contactors and Simple switchgear	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.08
E.K.7.4.2	Cam Shafts and Tap Changer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.08
E.K.7.5	Waste power dissipation/recovery														
E.K.7.5.1	Traction and braking resistors	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.06 16.85.09
E.K.7.5.2	Fans	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.09
E.K.7.5.3	Radiator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.09
E.K.7.5.4	Pump	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.09
E.K.7.6	Power storage														
E.K.7.6.1	Traction Battery	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.10 16.85.13
E.K.7.6.2	Flywheel	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.10 16.85.11
E.K.7.7	Transformer	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.01 16.85.07
E.K.7.8	Traction Smoothing Choke (DC Choke)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.01
E.K.7.9	Traction motor														
E.K.7.9.1	Stator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.03
E.K.7.9.2	Rotor	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.03
E.K.7.9.3	Brushgear	V	-	V	V	-	-	-	-	V	V	V	V	-	16.85.03
E.K.7.9.4	Carbon Brushes	V	-	V	V	-	-	-	-	V	V	V	V	-	16.80.21 16.85.03
E.K.8	Train Control														
E.K.8.1	Operation Controls														
E.K.8.1.1	Automatic (Train Protection) Warning System (AWS/TPWS)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01
E.K.8.1.2	Electronic Train Control System (ETCS)														
E.K.8.1.2.1	Position Sensor (Balise)	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.1.2.2	ERTMS Sensor	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.1.2.3	ERTMS HMI	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.1.3	Automatic Train Operation (ATO)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01 16.86.10
E.K.8.1.4	Driving and braking controls														
E.K.8.1.4.1	DSD/Vigilance System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.03
E.K.8.1.5	Power Generation Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01 16.86.12
E.K.8.1.6	Power Supply Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01 16.86.02
E.K.8.1.7	Tilt Control System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01 16.86.04
E.K.8.1.8	Couple/Uncouple Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01
E.K.8.1.9	Sanding Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.01

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E.K.8.2	Auxiliary Controls														
E.K.8.2.1	Auxiliary Sensors														
E.K.8.2.1.1	Temperature sensors	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.2	Automatic power Control (APC) System														
E.K.8.2.2.1	APC Sensor	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.3	Train Control and Management System (TCMS)														
E.K.8.2.3.1	Train management system interface	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.11
E.K.8.2.4	Manual Auxiliary Controls														
E.K.8.2.4.1	Auxiliaries trip/set	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.4.2	ETS Set/Trip	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.4.3	Battery Isolating Switch	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.4.4	Lighting Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.4.5	Heating Controls	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.8.2.4.6	Controls for Power Storage System	V	-	V	V	-	-	-	-	V	V	V	V	-	16.86.14
E.K.9	Auxiliary electrical equipment and systems														
E.K.9.1	On Board Auxiliary Power														
E.K.9.1.1	Motor Alternator (MA Set)	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.01
E.K.9.1.2	Auxiliary Alternator	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.01
E.K.9.2	Low Voltage Auxiliary Electrical Supply														
E.K.9.2.1	Auxiliary Power Converter	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.02
E.K.9.2.2	Auxiliary Transformer	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.9.2.3	Generator Set	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.9.3	Auxiliary and starting battery														
E.K.9.3.1	Battery	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.04
E.K.9.3.2	Battery Charger	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.04
E.K.9.4	Shore Supply Connection														
E.K.9.4.1	Shore Supply Socket	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.9.4.2	Shore Supply Change Over Switch	V	-	V	V	-	-	-	-	V	V	V	V	-	
E.K.9.5	Auxiliary Electrical Machines														
E.K.9.5.1	Emergency power generators	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.06
E.K.9.6	Auxiliary Power Distribution & Control	V	-	V	V	-	-	-	-	V	V	V	V	-	16.87.03
F	Energy														
F.B	Energy - Onboard Current Collectors														
F.B.1	Roof pantograph	V	-	V	V	-	-	V	V	V	V	V	V	V	(Vehicle)
F.B.2	Third rail shoe	V	-	V	V	-	-	V	V	V	V	V	V	V	(Vehicle)
F.C	Energy - Trackside														
F.C.1	OHLE Systems														
F.C.1.1	Main Steelwork	V	-	V	A	-	-	A	A	A	A	A	A	A	14.05.01
F.C.1.10	Materials & Parts (Insulators)	V	-	V	-	-	-	-	-	-	-	-	-	-	14.90.04
F.C.1.2	Small Part Steelwork	V	-	V	A	-	-	A	A	A	-	A	A	A	14.05.02
F.C.1.3	Foundations	V	-	V	A	-	-	-	A	A	-	A	A	-	12.05.04
F.C.1.4	Support System	V	-	V	A	-	-	A	A	A	A	A	A	A	14.05.03
F.C.1.5	Wiring	V	-	V	A	-	-	A	A	A	-	A	A	A	14.01.01
F.C.1.6	Earthing & Bonding	V	-	V	A	-	-	A	A	A	-	A	A	A	14.01.02
F.C.1.7	Switching	V	-	V	A	-	-	A	A	A	A	A	A	A	14.01.03
F.C.1.8	Materials & Parts (Switchgear)	V	-	V	-	-	-	-	-	-	-	-	-	-	14.90.02
F.C.1.9	Materials & Parts (Catenaries Wire)	V	-	V	-	-	-	-	-	-	-	-	-	-	14.90.01
F.C.2	DC Conductor Rail Systems														
F.C.2.1	ETE Conductor Rail & Associated Cabling	V	-	V	A	-	-	A	A	A	A	A	A	A	14.02.01
F.C.2.2	Depot Conductor Systems	V	-	V	A	-	-	A	A	A	A	A	A	A	14.02.02
F.C.2.3	ETE Negative Bonding	V	-	V	A	-	-	A	A	A	-	A	A	A	14.02.03
F.C.3	HV-AC Distribution Systems (Traction)														
F.C.3.1	Substations/Switching Stations	V	-	V	A	-	-	A	A	A	A	A	A	A	14.03.01
F.C.3.2	HV Cabling	V	-	V	A	-	-	A	A	A	-	A	A	A	14.03.02













RICCL Code	Product / Service	M-Manufacture	N-Service	P-Supply	Q-Design	R-Operate	S-Construction	T-Commission	U-Dispose	V-Maintain	W-Overhaul	X-Install	Y-Modify	Z-Decommission	Old Code
H.K.9.1	Quality Audit	-	V	-	-	-	-	-	-	-	-	-	-	-	04.72.01
H.K.9.2	Quality Management Systems	-	V	-	-	-	-	-	-	-	-	-	-	-	04.72.02
H.K.9.3	Quality Certification	-	V	-	-	-	-	-	-	-	-	-	-	-	04.72.03
H.K.9.4	Development & Review of Fixed Infrastructure Plant Standards	-	V	-	-	-	-	-	-	-	-	-	-	-	04.63.02
H.L	Facilities & Property Management														
H.L.1	Real Estate Services														
H.L.1.1	Auctioneer	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.01
H.L.1.2	Valuation Advice	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.02
H.L.1.3	General Property Agents	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.03
H.L.1.4	Service Charge Management	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.04
H.L.1.5	Archaeological Services	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.05
H.L.1.6	Town Planning	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.07
H.L.1.7	Land Surveying	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.08
H.L.1.8	Operational Property Consultancy	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.09
H.L.1.9	Dilapidations	-	V	-	-	-	-	-	-	-	-	-	-	-	04.66.06
H.L.10	Car Parking Services	-	V	-	-	-	-	-	-	-	-	-	-	-	04.43.01
H.L.11	ATM / Coin Machines / Money Kiosk	V	-	V	-	-	-	-	-	-	-	-	-	-	
H.L.2	Building														
H.L.2.1	Building Consultancy	-	V	-	-	-	-	-	-	-	-	-	-	-	04.73.01
H.L.2.2	Development & Review of Building Standards	-	V	-	-	-	-	-	-	-	-	-	-	-	04.73.02
H.L.3	General Building Management														
H.L.3.1	General Building Management	-	V	-	-	-	-	-	-	-	-	-	-	-	04.31.01
H.L.3.2	Portable Appliance Testing	-	V	-	-	-	-	-	-	-	-	-	-	-	04.31.02
H.L.4	Food & Catering	-	V	-	-	-	-	-	-	-	-	-	-	-	04.37.01
H.L.5	Archiving	-	V	-	-	-	-	-	-	-	-	-	-	-	04.38.01
H.L.6	Reprographics & Printing	-	V	-	-	-	-	-	-	-	-	-	-	-	04.39.01
H.L.7	Garden Services/Plants	-	V	-	-	-	-	-	-	-	-	-	-	-	04.41.01
H.L.8	Customer Services	-	V	-	-	-	-	-	-	-	-	-	-	-	04.42.01
H.L.9	Photo Booths	-	V	-	-	-	-	-	-	-	-	-	-	-	04.42.02
H.M	Staff, Equipment & Facilities/Property Supplies														
H.M.1	Furniture & Ancillary Equipment														
H.M.1.1	Office Furniture	V	-	V	-	-	-	-	-	-	-	-	-	-	04.44.01
H.M.1.2	Other Furniture	V	-	V	-	-	-	-	-	-	-	-	-	-	04.44.02
H.M.1.3	Ancillary Items	V	-	V	-	-	-	-	-	-	-	-	-	-	04.44.03 07.90.05
H.M.2	Stationery, Books & Magazines	V	-	V	-	-	-	-	-	-	-	-	-	-	04.45.01
H.M.3	Kitchen & Domestic Equipment (Including White Goods)	V	-	V	-	-	-	-	-	-	-	-	-	-	04.46.01
H.M.4	Uniform Clothing	V	-	V	-	-	-	-	-	-	-	-	-	-	04.51.01
H.M.5	Electrical Equipment (Including TV, DVD/VCR, Shredders)	V	-	V	-	-	-	-	-	-	-	-	-	-	04.47.01
H.M.6	Chemicals, Coatings & Lubricants														
H.M.6.1	Chemicals, Coatings & Lubricants	V	-	V	-	-	-	-	-	-	-	-	-	-	04.48.01
H.M.6.2	Insulation Coatings	-	V	-	-	-	-	-	-	-	-	-	-	-	04.48.02
H.M.7	Hardware (Including Signs, Locks & Lamps)	V	-	V	-	-	-	-	-	-	-	-	-	-	04.50.01