

Ref:	NR/L2/RSE/100/06
Issue:	2
Date:	02 June 2012
Compliance date:	02 June 2012

Level 2

How to decide what needs product acceptance via NR/L2/RSE/100/05 (formerly NR/L2/EBM/029/F001)

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Published and Issued by Network Rail, Kings Place, 90 York Way, London. N1 9AG.



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Table of products/plant equipment to ascertain whether acceptance is required or not

Product Group		Application	Examples	Controlled	Uncontrolled	Sample Pictures	Comments
Group 1	Infrastructure components railway specific or for which there are no British or European Standards applicable	Self Explanatory	<u>SIGNALLING</u>				"Operational" means any product / plant / equipment used to directly control, monitor, support and power the railway. In case of uncertainty the relevant Professional Head and/or Technology Manager shall be consulted.
			▪ Train Detection system - Track circuits (including Level crossings) - Axle counters - Treadles	✓		Electronic Treadle	
			▪ Lineside Signals, Indicators & Signs - Colour Light signals - Point indicators/Junction indicators/Route indicators	✓			
			▪ Point Operating Equipment	✓		Axle Counter	"Controlled" means catalogue numbers for which Network Rail Engineering asserts control. For any items falling into this category, it is mandatory that the product acceptance process is followed as explained in this document.
			▪ Electronic & Mechanical Interlocking systems	✓			
			▪ Signal Control Systems - Signal Control Panel - IECC Signal Control & Indication equipment	✓			
			▪ Train Describers, including Mechanical and Electronic	✓		Colour Light signal	
			▪ Level Crossing equipment - Barrier booms & Gates - Railway Specific Signs	✓			
			▪ Signalling Power Supplies	✓			
			▪ Train Protection systems - AWS & TPWS	✓		"Uncontrolled" means catalogue numbers for which Network Rail Engineering asserts no control. Products in this category <u>do not</u> require acceptance. The Technology Introduction team will be able to assist with any clarifications	
			▪ Event Logging & Condition Monitoring	✓			
			▪ Location Cases	✓			
			▪ Infrastructure specific relays - Miniature e.g. 930, 941, 966 F10 - Large Plug-in B-Style	✓			

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		- BR930 - Sub Miniature cradle relays & PO 3000 relays for indications - Shelf Type relays - DCPI			 BR930 Series relay	Abbreviations ▪ DCPI = DC Polar Moving Iron ▪ IECC = Integrated Electronic Control centre ▪ AWS = Advanced Warning system ▪ TPWS = Train Protection Warning system ▪ S&C = Switches & Crossings ▪ SkV-E = Welding process ▪ PETS = Public Emergency Telephone system (PETS) ▪ VDU = Video Display unit ▪ UPS = Uninterruptible Power supply (UPS) ▪ FTN = Fixed Telecoms network ▪ GSM-R = Global system for Mobile railway ▪ DOO = Drive-only operation ▪ CCTV = Closed Circuit television ▪ VOIP = Voice Over Internet protocol ▪ CIS = Customer Information system ▪ OLE = Overhead Line equipment ▪ DC = Direct current
		TRACK				
		▪ Plain Line Track components - Rail anchors - Rail Pads - Baseplate - Fishplates - Buffer stops	✓		 Baseplate	
		▪ Lubricators & Greases	✓			
		▪ S&C components	✓			
		▪ Track Drainage	✓		 Rail lubricator	
		▪ Sleepers - Concrete - Timber - Steel - Hollow - Plastic	✓		 Track Drainage	
		▪ Rail - Long Rail 56E1 - Short Rail 56E1 - Long Rail 60E2 - Short Rail 60E2 - Conductor Rail - 113A - 56E1 - UIC60	✓		 Rail clip	
		▪ Ballast	✓			
		▪ De-icing & Anti-icing materials	✓			
		▪ Welding - Thermic welding	✓		 Fishplates	

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		- Alumino-thermic welding - Arc welding - SkV-E Welding - Flash Butt Welding equipment				▪ AC = Alternating current ▪ HV = High voltage ▪ kV = Kilo volts ▪ SCADA = Supervisory Control and Data acquisition ▪ ISDN = Integrated Services Digital network
		▪ Under-track Crossings (UTX)	✓		Buffer stop	
		TELECOMS				
		▪ Operational Telecoms - Trackside telephones - PETS - Telephone concentrators - Recording equipment - UPS - Battery back-up	✓		 	
					Lineside Phone Fibre cable	
		▪ Transmission components - Housing - Enclosures - FTN	✓			
					Fibre Joint	
		▪ Radio components - GSM-R - Masts - Wireless services	✓			
					ISDN Network router	
		▪ DOO CCTV system and components	✓			
		▪ Network Switches - VOIP - Routers - Switches (including telephone exchanges)	✓			
		▪ Lineside Cable Troughing & Cable Management - Access Chambers - Multi-duct - Troughing lid - Duct Adapters	✓			
		▪ Video Display unit (VDU)	✓		Access Chamber	

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		▪ CIS Control system	✓		 GSM-R Cab Radio system GSM-R phone  Telecoms Operational CCTV Cable Trough	
		▪ Optical Fibre Cable and Points (including termination)	✓			
		▪ Copper Cable Jointing and terminating components	✓			
		▪ Screening conductors	✓			
		<u>ELECTRIFICATION</u>			 Uninterruptible Power Supply (UPS)  Polymeric insulators  Ramp End insulator	
		▪ OLE contact systems, subsystems & components: - Contact wire - Catenary wire - Dropper/Jumpers (in span assemblies) - Insulators - Railway specific overhead line conductors and wires - In-line section devices (including section insulators, neutral sections) - OLE Switches and isolators - Secondary Insulation	✓			