

Name: Ricardo Beijing Company Limited.

Address: Room 1215, 12/F., No.63, East Third Ring Middle Road, Chaoyang District, Beijing, China

Registration No. CNAS IB0858

Type: A

Accreditation Criteria: ISO/IEC 17020:2012 and relevant requirements of CNAS

Effective Date: 2025-05-26 Expiry Date: 2027-01-28

SCHEDULE 2 ACCREDITED INSPECTION SCOPE

№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
1	Rail transit Communication, signalling and processing systems (Generic Product)	1	Independent Safety Assessment for Safety Computing Platform, Safety Communication Protocol Software, Balise, BTM, LEU, Track Circuit, Axle Counter	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008 Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126.	2025-05-26



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339-2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3- 2017		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Functional safety of electrical/electronic/programmable electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		



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		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety- related communication in transmission systems EN50159:2010+A1:2020		
				Railway Applications - Requirements for software development EN 50716:2023		
		2	Independent Safety Assessment for Object Controller, Point Controller, Application data preparation Tool (for CBTC, RBC and Track Circuit), Testing Tool (For CBTC and RBC), Track Circuit Reader	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126.	2025-05-26



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015		
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Functional safety of electrical/electronic/programmable electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		



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		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway Applications - Requirements for software development EN 50716:2023		
2	Rail transit control related communication and control system (Generic Product and Generic Application)	1	Independent Safety Assessment for Onboard Passenger information system, Obstacle detection system, Door Control Unit, Platform Screen Door System (PSD) Control Unit , Derailment Detection System,	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126	2025-05-26
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015		
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		



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		№	Name			
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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№	Inspection Objects	Type and Range of Inspection		Standard/Method or Procedures	Note	Effective Date
		№	Name			
				<p>Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017</p> <p>Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020</p> <p>Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018</p> <p>Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020</p>		



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		№	Name			
				Railway Applications - Requirements for software development EN 50716:2023		
		2	Independent Safety Assessment for Vehicle Fire Alarm System, ISCS, TCMS, TIAS, Locomotive Brake Control System Software	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008 Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015 Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021 Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126	2025-05-26



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				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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		№	Name			
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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		№	Name			
				Railway Applications - Requirements for software development EN 50716:2023		
3	Rail transit signalling systems (Generic Application)	1	Independent Safety Assessment for CBTC Signaling System and its ATP,ATO, ATS and CBI Subsystem	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126	2025-05-26
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015		
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		



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				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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		№	Name			
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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				Railway Applications - Requirements for software development EN 50716:2023		
4	Railway application Signalling systems (Generic Application)	1	Independent Safety Assessment for Interstation Communication control system, Intersection ISCS, Level Crossing Controller, decentralized Autonomous CTC system, ATO, Station Data Server system	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126.	2025-05-26
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015		
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		



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		№	Name			
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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				Railway Applications - Requirements for software development EN 50716:2023		
		2	Independent Safety Assessment for CTCS-2/3 System and its onboard ATP, RBC, TCC, TSRS, BTM,CBI Subsystem	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008 Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015 Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021 Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems EN50126.	2025-05-26



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		№	Name			
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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		№	Name			
				Railway Applications - Requirements for software development EN 50716:2023		
5	Communication, signalling and processing systems in railway application (Specific Application)	1	Independent Safety Assessment for Rail transit FAO control system (communication, signalling and processing system)	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008	Only for: Specific Application of communication, signalling and processing FAO system and its subsystem from phases 1 to 9 of the system lifecycle as specified in EN 50126.	2025-05-26
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015		
				Railway applications - Communication, signaling and processing systems - software for railway control and protection systems GB/T28808-2021		
				Railway applications - Communication, signaling and processing systems - Safety related electronic systems for signaling GB/T28809-2012		



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		№	Name			
				Railway applications- Communication, signaling and processing systems-Safety related communication in transmission systems GB/T24339:2023		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements GB/T20438.3:2017		
				Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS) IEC62278:2002		
				Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems IEC62279:2015		



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		№	Name			
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling IEC62425:2007		
				Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems IEC62280:2014		
				Functional safety of electrical/electronic/programmabl e electronic safety-related systems Part 3: Software Requirements IEC61508.3:2010		
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 1: Generic RAMS Process EN50126-1:2017		



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		№	Name			
				Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS) Part 2: Systems Approach to Safety EN50126-2:2017		
				Railway applications - Communications, signalling and processing systems - Software for railway control and protection system EN50128:2011+A2:2020		
				Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signaling EN50129:2018		
				Railway applications — Communication, signalling and processing systems — Safety-related communication in transmission systems EN50159:2010+A1:2020		



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				Railway Applications - Requirements for software development EN 50716:2023		
6	Road vehicles	1	Road vehicles - Functional safety	Road vehicles - Functional safety Part 2: Management of functional safety GB/T 34590.2-2022	Accredited only for VCU ,BMS,EMS & FSS.	2025-05-26
				Road vehicles - Functional safety Part 3: Concept phase GB/T 34590.3-2022		
				Road vehicles - Functional safety Part 4: Product development at the system level GB/T 34590.4-2022		
				Road vehicles - Functional safety Part 5: Product development at the hardware level GB/T 34590.5-2022		
				Road vehicles - Functional safety Part 6: Product development at the software level GB/T 34590.6-2022		



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				Road vehicles - Functional safety Part 8: Supporting process GB/T 34590.8-2022		
				Road vehicles - Functional safety Part 9: Automotive safety integrity level (ASIL)-oriented and safety-oriented analyses GB/T 34590.9-2022		
				Road vehicles - Functional safety Part 2: Management of functional safety ISO 26262-2: 2018		
				Road vehicles - Functional safety Part 3: Concept phase ISO 26262-3: 2018		
				Road vehicles - Functional safety Part 4: Product development at the system level ISO 26262-4: 2018		
				Road vehicles - Functional safety Part 5: Product development at the hardware level ISO 26262-5: 2018		



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				Road vehicles - Functional safety Part 6: Product development at the software level ISO 26262-6: 2018		
				Road vehicles - Functional safety Part 8: Supporting process ISO 26262-8: 2018		
				Road vehicles - Functional safety Part 9: Automotive safety integrity level (ASIL)-oriented and safety-oriented analyses ISO 26262-9: 2018		



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The scope of the accreditation in Chinese remains the definitive version.