Name: Ricardo Beijing Company Limited.

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Registration No. CNAS IB0858

Type: A CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT Accreditation Criteria: ISO/IEC 17020:2012 and relevant requirements of CNAS Effective Date: 2024-07-29 Expiry Date: 2027-01-28

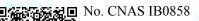
N₂	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date	
112	Inspection Objects	N⁰	Name	or Procedures	Note	Encenve Date	
1	Rail transit Communication, signalling and processing systems (Generic Product)	1	Independent Safety Assessment for Safety Computing Platform, Safety 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.	2023-06-14	

SCHEDULE 2 ACCREDITED INSPECTION SCOPE

DEFENDENCE No. CNAS IB0858

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NG.		T	ype and Range of Inspection	Standard/Method	N-4-	Effection Dete
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Railway applications -	<u> </u>	
				Communication, signaling and		
			and an and a labor	processing systems - software		
	CHI	NA NA	TIONAL ACCREDITATION SE		SSESSMENT	
			SCHEDULE OF ACCR	systems GB/T28808-2021 TE		
				Railway applications -		3
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				signaling GB/T28809-2012		
				Railway applications-		
				Communication, signaling and		
				processing systems-Safety related		
				communication in transmission		5
			C	systems GB/T24339-2023		
				Functional safety of		H H Ch
				electrical/electronic/programmabl		正国家
				e electronic safety-related		A THE
				systems Part 3: Software		
				Requirements GB/T20438.3-	E I	PIA
				2017	ili	业书专用草



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N₂	Na Inspection Objects		ype and Range of Inspection	Standard/Method	Note	Effective Dat
JN⊡	Inspection Objects	N⁰	Name	or Procedures	note	Effective Dat
			HOC-MIKA	Railway applications -	\sim	
				Specification and demonstration		
				of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002ATE		
				Railway applications -		
				Communication, signalling and		
				processing systems - Software for		
				railway control and protection	C	
				systems IEC62279:2015		
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		
				signaling IEC62425:2007		
				Railway applications -		王王子
				Communication, signalling and	C A	正国家山
				processing systems - Safety		
				related communication in		
				transmission systems	H H	PIA
				IEC62280:2014	il	可证书专用章



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	No. Inspection Objects		ype and Range of Inspection	Standard/Method	N /	
Nº	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Functional safety of	~	
				electrical/electronic/programmabl		
				e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications - The		
				specification and demonstration		
				of Reliability, Availability,		
				Maintainability and Safety	C	
				(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-		定国家公
				2:2017		
				Railway applications –		
				Communications, signalling and	H	MK
				processing systems - Software	1 i i	证书专用章
				for railway control and protection		
				system EN50128:2011+A2:2020		

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Na	Inspection Objects	Г	ype and Range of Inspection	Standard/Method	Nata	Effective Date
Nº	Inspection Objects	Nº	Name	or Procedures	Note	Effective Dat
•	СНІ	INA NA	TIONAL ACCREDITATION SE SCHEDULE OF ACCRE	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for signaling EN50129:2018 ATE Railway applications — Communication, signalling and processing systems — Safety- related communication in transmission systems EN50159:2010+A1:2020	SSESSMENT	NAS S
		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 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.	2023-06-14



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		Т	ype and Range of Inspection	Standard/Method	N . /	
N⁰	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Date
			JICC-WIKA	Railway applications -	C	
				Communication, signaling and		
			200 minter	processing systems - software		
	CHI	NA NA		for railway control and protection	SSESSMENT	
			SCHEDULE OF ACCRE	systems GB/T28808-2021 TE		
				Railway applications -		
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				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		定国家公
				e electronic safety-related		
				systems Part 3: Software		
				Requirements GB/T20438.3:2017	H H	MK

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No	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Noto	Effective Date
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Railway applications -	<u> </u>	
				Specification and demonstration		
			and an and a labor	of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002 ATE		
				Railway applications -		
			\sim	Communication, signalling and		
				processing systems - Software for		
				railway control and protection	C	
				systems IEC62279:2015		\sim
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		<u>)</u>
			C-	signaling IEC62425:2007		
				Railway applications -		H H A
				Communication, signalling and	C A	正国家公
				processing systems - Safety		
				related communication in		
				transmission systems	H H	PHA
				IEC62280:2014	i	可证书专用章



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	No. Inspection Objects		ype and Range of Inspection	Standard/Method	N /	
Nº	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Functional safety of	~	
				electrical/electronic/programmabl		
				e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications - The		
				specification and demonstration		
				of Reliability, Availability,		
				Maintainability and Safety	C	
				(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-		定国家公
				2:2017		
				Railway applications –		
				Communications, signalling and	H	MK
				processing systems - Software	1 i i	证书专用章
				for railway control and protection		
				system EN50128:2011+A2:2020		

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N⁰	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
J	Inspection Objects	Nº	Name	or Procedures	note	Ellective Dat
	СН	INA NA	TIONAL ACCREDITATION SE SCHEDULE OF ACCRE	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for TA signaling EN50129:2018 ATE Railway applications — Communication, signalling and processing systems — Safety- related communication in transmission systems EN50159:2010+A1:2020	SSESSMENT	
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 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	2023-06-14

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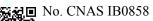
No. CNAS IB0858

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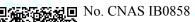
	Inspection Objects		ype and Range of Inspection	Standard/Method	N	
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOC-WIKA	Railway applications -	C	
				Communication, signaling and		<u> </u>
			and an and a second sec	processing systems - software		
	CHI	NA NA		for railway control and protection	SSESSMENT	
			SCHEDULE OF ACCRE	systems GB/T28808-2021 TE		
				Railway applications -		
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				signaling GB/T28809-2012		
				Railway applications-		
				Communication, signaling and		
				processing systems-Safety related		
				communication in transmission		
	C C			systems GB/T24339:2023		
				Functional safety of		
				electrical/electronic/programmabl		定国家公
				e electronic safety-related		A PAN
				systems Part 3: Software		
				Requirements GB/T20438.3:2017	N H	MK

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No	Inspection Objects		ype and Range of Inspection	Standard/Method	Noto	Effective Dat
N⁰	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Dat
			HOU-MIKA	Railway applications -	~	
				Specification and demonstration		
				of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002 ATE		
				Railway applications -		
				Communication, signalling and		
				processing systems - Software for		
				railway control and protection	C	
				systems IEC62279:2015		
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		
				signaling IEC62425:2007		
				Railway applications -		日田安、
				Communication, signalling and		正田家公众
				processing systems - Safety		A THE
				related communication in		NX NX
				transmission systems	H. H.	
				IEC62280:2014	1	小小方用草



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N₂	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
512	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Functional safety of	\sim	
				electrical/electronic/programmabl		
			and an and a second second	e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications - The		1
			\sim	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,		
			\sim	Maintainability and Safety		
				(RAMS) Part 2: Systems		E H
				Approach to Safety EN50126-	C A	定国家公
				2:2017		Here I
				Railway applications –		
				Communications, signalling and	H	HK
				processing systems - Software	i li F	证书专用章
				for railway control and protection		
			\sim	system EN50128:2011+A2:2020		

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No	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Noto	Effertion Dete
N⁰	Inspection Objects	Nº	Name	or Procedures	Note	Effective Dat
•	СН	NA NA	TIONAL ACCREDITATION SE SCHEDULE OF ACCRI	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for TA signaling EN50129:2018 ATE Railway applications — Communication, signalling and processing systems — Safety-	SSESSMENT	
			CAR	related communication in transmission systems EN50159:2010+A1:2020 Railway applications -		
		2	Independent Safety Assessment for Vehicle Fire Alarm System, ISCS, TCMS, TIAS, Locomotive Brake Control System Software	Specification and demonstration of reliability, availability, maintainability and safety (RAMS). GB/T21562-2008 Railway applications - Specification and demonstration	System life cycle phase from 1 to 7 which is defined in Communication, signalling and processing systems	2023-06-14
				of reliability, availability, maintainability and safety (RAMS) GB/T21562.2-2015	EN50126	



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		T	ype and Range of Inspection	Standard/Method	N	
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOC-WIKA	Railway applications -	C	
				Communication, signaling and		<u> </u>
			and an and a second sec	processing systems - software		
	CHI	NA NA		for railway control and protection	SSESSMENT	
			SCHEDULE OF ACCRE	systems GB/T28808-2021 TE		
				Railway applications -		
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				signaling GB/T28809-2012		
				Railway applications-		
				Communication, signaling and		
				processing systems-Safety related		
				communication in transmission		
	C C			systems GB/T24339:2023		
				Functional safety of		
				electrical/electronic/programmabl		定国家公
				e electronic safety-related		A PAN
				systems Part 3: Software		
				Requirements GB/T20438.3:2017	N H	MK

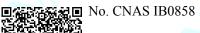
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No	Increation Objects	Т	ype and Range of Inspection	Standard/Method	Nata	Effective Dete
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Railway applications -	~	
				Specification and demonstration		
			and an and a second second	of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002 ATE		
				Railway applications -		
			\sim	Communication, signalling and		
				processing systems - Software for		
				railway control and protection	C	
				systems IEC62279:2015		\sim
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		
			C	signaling IEC62425:2007		
				Railway applications -		H H H
				Communication, signalling and		正国家道
				processing systems - Safety		
				related communication in		
				transmission systems		
				IEC62280:2014	i.	中亚于专用草



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N⁰	Increation Objects	Ту	ype and Range of Inspection	Standard/Method	Note	Effective Date
JNg	Inspection Objects	№	Name	or Procedures	Note	Effective Date
			HOU-IMKA	Functional safety of	~	
				electrical/electronic/programmabl		
				e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications – The		
				specification and demonstration		
				of Reliability, Availability,		
				Maintainability and Safety	C	
				(RAMS) Part 1: Generic RAMS		
				Process EN50126-1:2017		
				Railway applications - The		
~				specification and demonstration		
				of Reliability, Availability,		5
				Maintainability and Safety		
				(RAMS) Part 2: Systems		
				Approach to Safety EN50126-		正国家
				2:2017		1490
				Railway applications –		
				Communications, signalling and	H-	PIK
				processing systems - Software	1 iii	证书专用章
				for railway control and protection		1
			\sim	system EN50128:2011+A2:2020		

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		Т	ype and Range of Inspection	Standard/Method			
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Dat	
	СНІ	NA NA	TIONAL ACCREDITATION SE	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for MA signaling EN50129:2018	SSESSMENT	J.P.S	
	CNAS			Railway applications — Communication, signalling and processing systems — Safety- related communication in transmission systems EN50159:2010+A1:2020		5	
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 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	2023-06-14	

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		T	ype and Range of Inspection	Standard/Method	N	
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOC-WIKA	Railway applications -	C	
				Communication, signaling and		<u> </u>
			and an and a second sec	processing systems - software		
	CHI	NA NA		for railway control and protection	SSESSMENT	
			SCHEDULE OF ACCRE	systems GB/T28808-2021 TE		
				Railway applications -		
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				signaling GB/T28809-2012		
				Railway applications-		
				Communication, signaling and		
				processing systems-Safety related		
				communication in transmission		
	C C			systems GB/T24339:2023		
				Functional safety of		
				electrical/electronic/programmabl		定国家公
				e electronic safety-related		A PAN
				systems Part 3: Software		
				Requirements GB/T20438.3:2017	N H	MK

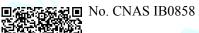
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NG	Inspection Objects	T	ype and Range of Inspection	Standard/Method	Nata	Effective Date
N⁰	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			HOC-MIKA	Railway applications -	~	
				Specification and demonstration		
				of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002 ATE		
				Railway applications -		
				Communication, signalling and		
				processing systems - Software for		
				railway control and protection	G	
				systems IEC62279:2015		
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		
				signaling IEC62425:2007		
				Railway applications -		日日日
				Communication, signalling and		花田家道
				processing systems - Safety		
				related communication in		NX NX
				transmission systems IEC62280:2014		田井井田主
				1EC02280.2014	1 N	山市专用星



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N⁰	Increation Objects	Ту	ype and Range of Inspection	Standard/Method	Note	Effective Date
JNg	Inspection Objects	№	Name	or Procedures	Note	Effective Date
			HOU-IMKA	Functional safety of	~	
				electrical/electronic/programmabl		
				e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications – The		
				specification and demonstration		
				of Reliability, Availability,		
				Maintainability and Safety	C	
				(RAMS) Part 1: Generic RAMS		
				Process EN50126-1:2017		
				Railway applications - The		
~				specification and demonstration		
				of Reliability, Availability,		5
				Maintainability and Safety		
				(RAMS) Part 2: Systems		
				Approach to Safety EN50126-		正国家
				2:2017		1490
				Railway applications –		
				Communications, signalling and	H-	PIK
				processing systems - Software	1 iii	证书专用章
				for railway control and protection		1
			\sim	system EN50128:2011+A2:2020		

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N⁰	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
JN⊡	Inspection Objects	N⁰	Name	or Procedures	note	Effective Dat
	СНІ	NA NA	TIONAL ACCREDITATION SE SCHEDULE OF ACCRE	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	SSESSMENT	
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 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.	2023-06-14

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		Т	ype and Range of Inspection	Standard/Method	N . /	
N⁰	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Date
			JICC-WIKA	Railway applications -	C	
				Communication, signaling and		
			200 minter	processing systems - software		
	CHI	NA NA		for railway control and protection	SSESSMENT	
			SCHEDULE OF ACCRE	systems GB/T28808-2021 TE		
				Railway applications -		
			\sim	Communication, signaling and		
				processing systems - Safety		
				related electronic systems for	C	
				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		定国家公
				e electronic safety-related		
				systems Part 3: Software		
				Requirements GB/T20438.3:2017	H H	MK

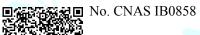
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No	Increation Objects	Т	ype and Range of Inspection	Standard/Method	Nata	Effective Dete
N⁰	Inspection Objects	N₂	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Railway applications -	~	
				Specification and demonstration		
			and an and a labor	of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) IEC62278:2002 ATE		
				Railway applications -		
			\sim	Communication, signalling and		
				processing systems - Software for		
				railway control and protection	C	
				systems IEC62279:2015		\sim
				Railway applications -		
				Communication, signalling and		
				processing systems - Safety		
				related electronic systems for		
			C	signaling IEC62425:2007		
				Railway applications -		H H H
				Communication, signalling and		正国家道
				processing systems - Safety		
				related communication in		
				transmission systems		
				IEC62280:2014	i.	中亚于专用草



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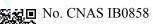
N₂	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
512	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Functional safety of	\sim	
				electrical/electronic/programmabl		
			and an and a second second	e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements IEC61508.3:2010		
				Railway applications - The		1
			\sim	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,		2
			\sim	Maintainability and Safety		
				(RAMS) Part 2: Systems		E H
				Approach to Safety EN50126-	C A	定国家公
				2:2017		Here I
				Railway applications –		
				Communications, signalling and	H	HK
				processing systems - Software	i li F	证书专用章
				for railway control and protection		
			\sim	system EN50128:2011+A2:2020		

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NG	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
№	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
)	СН	NA NA	TIONAL ACCREDITATION SE SCHEDULE OF ACCRE	Railway applications – Communication, signalling and processing systems – Safety related electronic systems for MA signaling EN50129:2018 ATE Railway applications — Communication, signalling and processing systems — Safety- related communication in transmission systems EN50159:2010+A1:2020 Railway Applications - Requirements for software	SSESSMENT	NAS
		2	Independent Safety Assessment for CTCS-2/3 System and its onboard ATP, RBC, TCC, TSRS, BTM,CBI Subsystem	development EN 50716:2023 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.	2023-06-14

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20		Т	ype and Range of Inspection	Standard/Method	N. /	
№	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			Hac-WRA	Railway applications -	<u> </u>	
				Specification and demonstration		
			and a state of the	of reliability, availability,		
	CHI	NA NA	TIONAL ACCREDITATION SE	maintainability and safety MITY A	SSESSMENT	
			SCHEDULE OF ACCR	(RAMS) GB/T21562.2-2015		
				Railway applications -		
				Communication, signaling and		
				processing systems - software		
				for railway control and protection	C	
				systems GB/T28808-2021		
				Railway applications -		
				Communication, signaling and		
				processing systems - Safety		
				related electronic systems for		
	C			signaling GB/T28809-2012		
				Railway applications-		
				Communication, signaling and		定国家公
				processing systems-Safety related		A A A A A A A A A A A A A A A A A A A
				communication in transmission		
				systems GB/T24339:2023	THE REAL	AK A



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		Т	ype and Range of Inspection	Standard/Method	N	
N₂	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			HOC-MIKA	Functional safety of	<u> </u>	
				electrical/electronic/programmabl		
			and an and a low	e electronic safety-related		
	CHI	NA NA	TIONAL ACCREDITATION SE	Systems Part 3: Software MITY A	SSESSMENT	
			SCHEDULE OF ACCRE	Requirements GB/T20438.3:2017		
				Railway applications -		
	C			Specification and demonstration		
				of reliability, availability,		
				maintainability and safety	\sim	
				(RAMS) IEC62278:2002		
				Railway applications -		
				Communication, signalling and		
				processing systems - Software for		
C				railway control and protection		
	C			systems IEC62279:2015		
				Railway applications -		
				Communication, signalling and		金花国家少
				processing systems - Safety		A Print
				related electronic systems for		
				signaling IEC62425:2007		MA

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	D C		T	ype and Range of Inspection	Standard/Method	N	
	N⁰	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
				IICC-IVIKA	Railway applications -	\sim	
/					Communication, signalling and		
				and an and a later of the second seco	processing systems - Safety		
		CHI	NA NA	TIONAL ACCREDITATION SE	Prelated communication in MITY A	SSESSMENT	
				SCHEDULE OF ACCRE	transmission systemsFICATE		
					IEC62280:2014		
				\sim	Functional safety of		
					electrical/electronic/programmabl		
					e electronic safety-related	C	
					systems Part 3: Software		
					Requirements IEC61508.3:2010		
					Railway applications - The		
					specification and demonstration		
					of Reliability, Availability,		
				\sim	Maintainability and Safety		
					(RAMS) Part 1: Generic RAMS		H H
					Process EN50126-1:2017		记国家公

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	N⁰	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
	JNE	Inspection Objects	№	Name	or Procedures	Note	Effective Date
		C		ICIC-WIKA	Railway applications - The specification and demonstration of Reliability, Availability,	S	6
		CHI	NA NA	TIONAL ACCREDITATION SE	Maintainability and Safety ITY A	SSESSMENT	
				SCHEDULE OF ACCR	(RAMS) Part 2: Systems ATE		
					Approach to Safety EN50126-		1
				\sim	2:2017		
					Railway applications – Communications, signalling and	<i>C</i>	
				C ²	processing systems - Software for railway control and protection	S.	5
C					system EN50128:2011+A2:2020 Railway applications – Communication, signalling and		
				5	processing systems - Safety related electronic systems for signaling EN50129:2018		2日发小
					Railway applications — Communication, signalling and		
C					processing systems — Safety- related communication in	THE REAL	证书表用章
	2	G		<u>~</u>	transmission systems EN50159:2010+A1:2020		

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№	Inspection Objects	Type and Range of Inspection		Standard/Method	Note	Effective Dat
JNg	Inspection Objects	N⁰	Name	or Procedures	INOLE	Effective Da
5	Communication, signalling and processing systems in railway application (Specific Application)	NA NA	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 E 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	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.	2023-06-14



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20		Т	ype and Range of Inspection	Standard/Method		
№	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			HOC-WIKA	Railway applications-	\mathcal{C}	
				Communication, signaling and		
			"adulabor	processing systems-Safety related		
	CHI	NA NA	TIONAL ACCREDITATION SE	communication in transmission	SSESSMENT	
			SCHEDULE OF ACCR	systems GB/T24339:2023 TE		
				Functional safety of		
			\sim	electrical/electronic/programmabl		
				e electronic safety-related		
				systems Part 3: Software	C	
				Requirements GB/T20438.3:2017		
				Railway applications -		
				Specification and demonstration		
				of reliability, availability,		
				maintainability and safety		
			\sim	(RAMS) IEC62278:2002		
				Railway applications -		
				Communication, signalling and		金花国家公
				processing systems - Software for		
				railway control and protection		
				systems IEC62279:2015	中	HK

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N⁰	Inspection Objects	Ту	ype and Range of Inspection	Standard/Method	Note	Effective Date
JNY	Inspection Objects	№	Name	or Procedures	Note	
			HOC-IMEA	Railway applications -	<u> </u>	
				Communication, signalling and		
				processing systems - Safety		
	CHI	NA NA	TIONAL ACCREDITATION SE	related electronic systems for MA	SSESSMENT	
			SCHEDULE OF ACCR	signaling IEC62425:2007ATE		
				Railway applications -		3
				Communication, signalling and		
				processing systems - Safety		
				related communication in	C	
				transmission systems		
				IEC62280:2014		
				Functional safety of		
				electrical/electronic/programmabl		
				e electronic safety-related		
				systems Part 3: Software		
				Requirements IEC61508.3:2010		H H A
				Railway applications - The	C A	花图家公
				specification and demonstration		ATH A
				of Reliability, Availability,		
				Maintainability and Safety	The second secon	
				(RAMS) Part 1: Generic RAMS	ile	业书专用草
				Process EN50126-1:2017		1

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№	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
JIG	Inspection Objects	N⁰	Name	or Procedures	Note	Effective Date
			JICC-WIKA	Railway applications - The	C	
				specification and demonstration		\sim
				of Reliability, Availability,		
	CHI	NA NA	HONAL ACCREDITATION SE	Maintainability and Safety	SSESSMENT	
~			SCHEDULE OF ACCR	(RAMS) Part 2: Systems ATE		
				Approach to Safety EN50126-		
			G	2:2017		
				Railway applications -		
				Communications, signalling and		
				processing systems - Software for railway control and protection		C
				system EN50128:2011+A2:2020		
				Railway applications –		
C				Communication, signalling and		
	C			processing systems - Safety		
				related electronic systems for		
				signaling EN50129:2018		花国家公
				Railway applications —		
				Communication, signalling and		
				processing systems — Safety-	H	MK
				related communication in	U.F	证书专用章
				transmission systems		1
				EN50159:2010+A1:2020		

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N₂	Inspection Objects	Т	ype and Range of Inspection	Standard/Method	Note	Effective Date
JIT	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			HOU-MIKA	Road vehicles - Functional safety	<u> </u>	
				Part 2: Management of functional		
			C > "adulubo"	safety GB/T 34590.2-2022		
	CHI	NA NA	TIONAL ACCREDITATION SE	Road vehicles - Functional safety	SSESSMENT	
			SCHEDULE OF ACCR	Part 3: Concept phase GB/T E		
				34590.3-2022		
			\sim	Road vehicles - Functional safety		
				Part 4: Product development at		
				the system level GB/T 34590.4-	C	
				2022	Accredited only for	
6	Road vehicles	1	Road vehicles - Functional safety	Road vehicles - Functional safety	VCU & BMS.	2024-07-29
				Part 5: Product development at	VCO & DIVIS.	
				the hardware level GB/T		
				34590.5-2022		2
			\sim	Road vehicles - Functional safety		
				Part 6: Product development at		L FT AL
				the software level GB/T 34590.6-		定国家公
				2022		A THE
				Road vehicles - Functional safety		
				Part 8: Supporting process GB/T) H	MA
				34590.8-2022	U.L.	证书专用章



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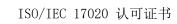
№	Inspection Objects	T	ype and Range of Inspection	Standard/Method	Note	Effective Date
JIE	Inspection Objects	№	Name	or Procedures	note	Enective Date
			HOC-MIKA	Road vehicles - Functional safety	\langle	
				Part 9: : Automotive safety		
				integrity level (ASIL)-oriented		
	CHI	NA NA	TIONAL ACCREDITATION SE	and safety-oriented analyses TY A	SSESSMENT	
			SCHEDULE OF ACCRE	GB/T 34590.9-2022 IFICATE		
				Road vehicles - Functional safety		
				Part 2: Management of functional		
				safety ISO 26262-2: 2018		
				Road vehicles - Functional safety	C	
				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	C l	金花因家公
				the hardware level ISO 26262-5:		
				2018		
				Road vehicles - Functional safety	H H	- MK
				Part 6: Product development at		认可证书专用章
				the software level ISO 26262-6:		
				2018		



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		Туре	and Range of Inspection	Standard/Method	C	
N⊵	Inspection Objects	Nº	Name	or Procedures	Note	Effective Date
			HIC-MIKA	Road vehicles - Functional safety	G	
				Part 8: Supporting process ISO 26262-8: 2018		G
	CHI		NAL ACCREDITATION SE		SSESSMENT	
			SCHEDULE OF ACCR	Part 9: Automotive safety TE		
				integrity level (ASIL)-oriented		
				and safety-oriented analyses ISO 26262-9: 2018		
		I.		5	6	1
						中国家少
						KHAN AN
					il il	黄田主井石石
						a de la d
						做 0.0 五 业 0.0 プ
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