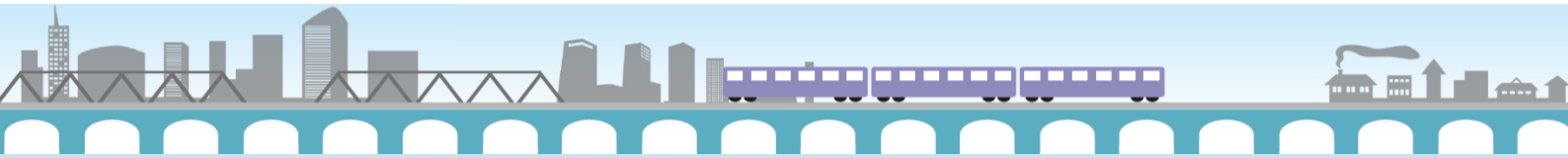
Certification of Railway Products by National Traffic Safety and Environment Laboratory -Railway Certification Center

Contributing to safety of railway in the world through certification



Railway Certification Center
National Traffic Safety and Environment Laboratory
National Agency for Automobile and Land Transport Technology

About Us

Profile

The National Traffic Safety and Environment Laboratory - Railway Certification Center (NRCC) was established in 2011 as a certification body that can handle all certification examinations in Japanese, mainly to support Japanese railway product exports from the aspect of international standards conformity certification. It is a certification body that is familiar with Japanese railway technology. We conduct an accurate certification examination backed by a wealth of safety evaluation results and the technical capabilities of experts who are familiar with Japanese railway technology.

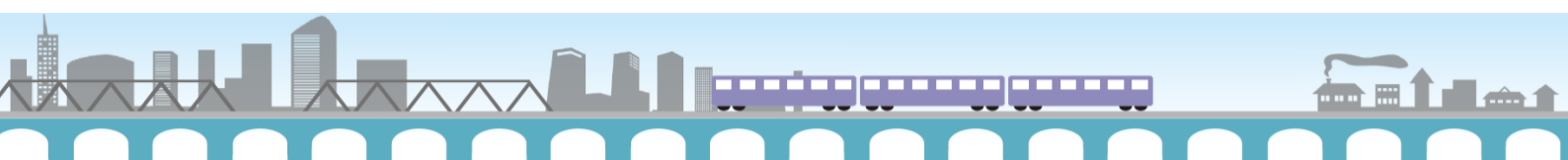
History

April 1950	The Transportation Technical Research Institute was established as a general technical research organization of the Ministry of Transport.
April 2001	Inaugurated as the National Traffic Safety and Environment Laboratory (NTSEL), an Independent Administrative Institute, after reorganization of the above institute.
April 2011	NRCC was established in NTSEL based on the Report of Council for Transport Policy established in the Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
September 2012	NRCC was accredited by International Accreditation Japan, National Institute of Technology and Evaluation, an Independent Administrative Institution, as a product certification body that certifies conformity with IEC 62425.
February 2015	NRCC changed the product certification operating based on ISO/IEC 17065 in place of ISO/IEC Guide 65.
April 2016	NTSEL was integrated with the National Agency of Vehicle Inspection, and the National Agency for Automobile and Land Transport Technology was established.
September 2016	NTSEL was accredited as a product certification body that certifies conformity with IEC 62279 and IEC 62280.
May 2018	NTSEL was accredited as a product certification body that certifies conformity with IEC 62278.

Quality policy

NRCC carries out certification activities based on the following quality policy:

- ✓ We provide appropriate and high-quality service that corresponds to the certification schemes that we operate;
- ✓ We ensure the objectivity and impartiality of the certification operations and strive to improve our technical skills;
- ✓ We strive to improve the quality of certification operating and make continuous improvements.



■ Our projects

Since the accreditation as a products certification body in 2012, NRCC has given 42 certifications to date for CBTC and other signalling systems. (as of August 1st, 2020)

Standard	Issuance of certificate
IEC 62278: Railway applications - Specification and demonstration of reliability, availability, maintainability, and safety (RAMS)	3: Signalling system
IEC 62279: Railway applications - Communications, signalling and processing systems - Software for railway control and protection systems	7: Signalling system
IEC 62280: Railway applications - Communication, signalling and processing systems - Safety related communication in transmission systems	2: Signalling system
IEC 62425: Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling	27: Signalling system 3: Onboard equipment

Onboard Equipment

Train Detection Equipment

Example of signalling systems certificated by NRCC

Example of certificate issued by NRCC

Our services

NRCC certifies the conformity with RAMS and other major international standards in relation to safety under the international rules for certification bodies, ISO/IEC 17065.

Standard	Subject product	Accreditation
IEC 62278	Overall railway systems	レ
IEC 62279	Software for railway signalling systems	レ
IEC 62280	Railway signalling systems relevant to communication in transmission systems	レ
IEC 62425	Electronic devices for railway signalling systems	レ
IEC 62236	Railway as a whole, vehicles (electronic devices), wayside electrical equipment systems, signalling equipment	In preparation

レ：Acquired

Sustainability

■ Message

Since its establishment as a national institute, the National Traffic Safety and Environment Laboratory (NTSEL) has carried out impartial and neutral evaluation with respect to safety and reliability of a new traffic system or new safety equipment to be introduced.

NRCC's certification is guaranteed to be impartial and neutral and can appeal externally as a certificate issued by a national agency.

We will continuously strive to achieve and maintain high certification quality and make further efforts in contributing to the safety of railways around the world.

Kazuhiro KUROKAWA
Director, Railway Certification Center (NRCC)

Profile:

1992-Joined the Ministry of Transport
2005-First Secretary, Embassy of Japan in the Philippines
2018-Director of the International cooperation office, Railway bureau, the Ministry of Land, infrastructure and Transport
2019-Director, Railway Department, Kanto District Transport Bureau
July, 2020-Present

■ Accredited certification body

NRCC is a product certification body accredited by International Accreditation Japan (IAJapan), National Institute of Technology and Evaluation, an Independent Administrative Institution.

Accreditation Number: ASNITE* 0064 Product
*Accreditation System of the National Institute of Technology and Evaluation

IAJapan is a signatory to the Multi-Lateral Recognition Arrangement (MLA) of the International Accreditation Forum (IAF) and the Asia Pacific Accreditation Corporation (APAC). That means a certification body accredited by IAJapan is guaranteed to have international reliability. Certification from NRCC can be expectedly accepted by participating accreditation bodies in other economics.

Accreditation by IAJapan

Railway Certification Center,
National Traffic Safety and Environment Laboratory

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