MONTHLY BRIEFING OF CHINESE AUTOMOTIVE STANDARDIZATION

August, 2024

China Automotive Standardization Research Institute (CASRI)
China Automotive Technology and Research Center Co., Ltd. (CATARC)

I. Recent policies

1. Eight departments including the Ministry of Industry and Information Technology jointly issued the notification to standardize the replacement of power batteries for old NEV city buses

On August 20, 2024, the Ministry of Industry and Information Technology, the Ministry of Transport, the Ministry of Public Security, the Ministry of Commerce, the State Administration for Emergency Response, the General Administration of Market Regulation, the China Banking and Insurance Regulatory Commission, and the National Fire Rescue Bureau jointly issued Notification No. 22 of 2024, calling for the safe and orderly replacement of power batteries on old NEV city buses .

The notification points out that the performance of the replacement power batteries should meet the mandatory national standard requirements of GB 38031 *Electric vehicles traction battery safety requirement*s, and it is recommended to meet the recommendatory national standard requirements of GB/T 31484 *Cycle life requirements and test methods for traction battery of electric vehicle* and GB/T 31486 *Electrical performance requirements and test methods for traction battery of electric vehicle*. The end-of-life power batteries generated by the replacement should be transferred to recycling service points and other channels, and the relevant parties should upload traceability information in accordance with relevant regulations. The vehicle performance after the replacement of power batteries should meet the mandatory national standard requirements of GB 7258 *Technical specifications for safety of power-driven vehicles operating on roads*, GB 38900 *Items and methods for safety technology inspection of motor vehicles*, GB 1589 *Limits of dimensions, axle load and masses for motor vehicles,trailers and combination vehicles*, GB 18384 *Electric vehicles safety requirements*, and GB 38032 *Electric buses safety requirements*.

2. The National Development and Reform Commission and other three departments jointly issued the *Action Plan for Further Strengthening the Standardization and Metrology System for Carbon Peak and Carbon Neutrality (2024-2025)*

On August 8, 2024, the National Development and Reform Commission, the State Market Supervision Administration, and the Ministry of Ecology and Environment jointly issued the *Action Plan for Further Strengthening the Standardization and Metrology System for Carbon Peak and Carbon Neutrality (2024-2025)* (hereinafter referred to as the "Action Plan"). The three departments will fully leverage the role of metrology and standards to effectively support the construction of China's dual control of carbon emission and carbon pricing policy system.

The Action Plan stipulates that efforts should be made to strengthen the standardization of carbon footprint and carbon labeling. A national standard for quantifying the carbon footprint of products should be released to unify the principles, methods, and data quality requirements for the carbon footprint calculation of specific products. China shall accelerate the development of national standards for the carbon footprint of NEVs, photovoltaic products, and lithium batteries to support the new advantage of China's foreign trade exports. Product energy

efficiency standards shall be updated more rapidly while the standards for the recycling and disassembly of automobiles, electronic products, and household appliances shall be formulated. For closer international cooperation, China will continuously conduct the analyses of the applicability of international standards, and propose a number of international standard proposals in sectors such as electric vehicles, new power systems, and ecological carbon exchange in order to strengthen international cooperation in new areas and emerging technologies.

II. Recent events

1. The 6th China-ASEAN Cooperation Dialogue on Automotive Standards and Regulations was held in Bangkok Thailand with success

On August 14, 2024, the The 6th China-ASEAN Cooperation Dialogue on Automotive Standards and Regulations (hereinafter referred to as the Dialogue) jointly hosted by the CATARC CASRI and the ACCSQ, APWG with the cooperation of the TISI and the DLT of Thailand was successfully held in Bangkok, Thailand. About 130 relevant leaders and experts from government departments, institutions, and enterprises of China and ASEAN attended the event.

The Dialogue is the only annual conference in the automotive standardization cooperation mechanism between China and ASEAN. As the highest-level and most extensive automotive standardization dialogue and exchange platform between China and ASEAN at present, the Dialogue fully leveraged the supporting role of standards in promoting the quality improvement and technological innovation of the automotive industry, promoted and deepened the in-depth exchange of government departments, enterprises, and research institutions in automotive standardization and regulation, further strengthened the development consensus between the two sides, and further stimulated the potential for regional cooperation.

In the future, CATARC will continue to deepen exchanges and cooperation with the ASEAN countries in standardization, testing, and certification, and strive to promote the in-depth development of the China-ASEAN automotive standardization cooperation mechanism. At the same time, CATARC will continue to exert its professional advantages in automotive standardization and work with ASEAN to jointly build an open, inclusive, innovation-driven, and green automotive standardization partnership, and continuously contribute wisdom and strength to promoting the common prosperity of the regional automotive industry.

2. The 1st Go-YEEP was held with success

From August 27 to 29, 2024, CATARC CASRI and FAW jointly held the first Global Young Engineer Exchange Program (Go-YEEP) in two cities as Tianjin and Changchun. With the theme of “understanding, cooperation and development”, the event attracted 23 young automotive engineers from 16 countries and regions in Asia and Africa and more than 100 young representatives of the Chinese automotive industry.

During the event, in order to enhance the understanding of the young engineer delegation to China and strengthen cultural exchanges and clash of ideas, lecturers explained Chinese traditional culture to the delegation on the theme day of “Explore China”, and introduced the development of China’s automotive industry, the construction

of standards system and science and technology innovation in the field of emerging technologies. The Future Leaders Youth Forum with the theme of "the Road to Self-Development of Young Automotive Engineers" focused on the transformation of the automotive industry and provided a platform for the discussion of the self-development of young automotive engineers where the young representatives from various countries, based on their own characteristics and situations, freely expressed their opinions on growth and development, industry construction and future prospects. All the young representatives from different countries reached the consensus on the global cultivation and development of young engineer and together launched the Tianjin Declaration and the Young Automotive Engineer Cultivation Initiative in order to build the exchange platform as "young engineers facilitating global automotive industry development and global automotive industry promoting the development of young engineers" and call on the young people to break the geographic restrictions, unite the young power, support whole-chain cultivation and summon the strength of innovation.

The delegation also visited the FAW history and culture exhibition hall, Jiefang Intelligent Factory and Hongqi Prosperity Factory in Changchun, took the test ride of the classic Hongqi cars, deeply understood the R&D talent cultivation and overseas business network of FAW, and personally experienced the birth and growth of the first automotive brand of China and the powerful development and rapid progress of the Chinese automotive industry.

This event is an innovative practice in youth standardization talent cultivation and international exchange and cooperation. In the future, CATARC will continue to explore diverse pathways for standardization talent cultivation and promote mutual learning and exchanges among young talents across different countries and regions, thus contributing to the transmission of new impetus for the global automotive industry and the gathering of new forces for building a community with a shared future for mankind.

III. Standardization updates in August

1. Automotive standard plans assigned in August (national standards)

Serial No.	Name of the standard	Type	Formulating or revising	Date of assigning the plan
1	Road vehicles—Test devices for assessing the perceptual function of intelligent connected vehicles—Part 3: Requirements for passenger vehicle 3D targets	Recommendatory	Formulating	2024/8/23
2	Road vehicles — Test devices for assessing the perceptual function of intelligent connected vehicles Part 4:Requirements for bicyclist targets	Recommendatory	Formulating	2024/8/23

2. Automotive standards soliciting public opinions in August

Serial No.	Name of the project	Type	Starting time of soliciting public opinions	Ending time of soliciting public opinions
1	Natural gas vehicle and liquefied petroleumgas vehicle--Identification marks	National	2024/8/6	2024/10/5

Serial No.	Name of the project	Type	Starting time of soliciting public opinions	Ending time of soliciting public opinions
2	Fueling nozzle for CNG dispenser	National	2024/8/6	2024/10/5
3	pressure regulator of CNG vehicles	National	2024/8/6	2024/10/5
4	Natural gas vehicles - Engineering approval evaluation program	National	2024/8/6	2024/10/5
5	Natural gas vehicle and liquefied petroleum gas vehicle--Vocabulary	National	2024/8/6	2024/10/5
6	Cover glazing used for vehicle display	National	2024/8/15	2024/10/14
7	Evaluation method for photothermal comfort testing of automotive glass	National	2024/8/15	2024/10/14
8	Fuel consumption evaluation methods and targets for passenger cars	National	2024/8/21	2024/10/20
9	Energy consumption limits for electric vehicles—Part 1: Passenger car	National	2024/8/21	2024/10/20
10	Road vehicles— Spark-plugs and their cylinder head housing—Basic characteristics and dimensions	National	2024/8/22	2024/10/21
11	Vehicle computing chip for intelligent driving technical requirements and testing methods	Industrial	2024/8/28	2024/10/7
12	Automotive Engine- Roundwire snap rings for Piston Pinholes	Industrial	2024/8/28	2024/10/7

3. The reviewing of automotive standards in August

Serial No.	Name of the project	Type	Sector	Time of review
1	Safety property requirements and test methods for fuel tanks of motorcycles and mopeds	National	Motorcycle	2024/8/6
2	Symbols for controls,indicators and tell-tale for motorcycles and mopeds	National	Motorcycle	2024/8/6
3	Disc wheels for Trucks Dimensional characteristics of attachment on hub	National	Wheel	2024/8/20
4	Wheels and rims for pneumatic tyres - Vocabulary，designation and marking	National	Wheel	2024/8/20
5	Road vehicles - Light alloy wheels - Impact test procedure	National	Wheel	2024/8/20
6	Disc wheels for passenger car — Dimensional of attachment on hub	Industrial	Wheel	2024/8/20
7	Recovery of traction battery used in electric vehicle—Echelon use—Part5: Battery design guide	National	Electric vehicle	2024/8/20

Serial No.	Name of the project	Type	Sector	Time of review
	for echelon use			
8	Greenhouse gases - Quantitative methods and requirements of product carbon footprint - Traction battery for electric vehicles	Industrial	Electric vehicle	2024/8/20
9	Requirements of the greenhouse gas emission accounting and reporting - Manufacturers of traction battery	Industrial	Electric vehicle	2024/8/20
10	Hydrogen injector for fuel cell systems	Industrial	Electric vehicle	2024/8/20
11	Cooling pump for fuel cell systems	Industrial	Electric vehicle	2024/8/20
12	Fuel consumption limits for passenger cars	National	Vehicle energy saving	2024/8/27
13	Off-cycle technology/device energy saving effects evaluation methods for passenger cars—Part 5: Generator	National	Vehicle energy saving	2024/8/27
14	Test methods for energy consumption and range of electric vehicles—Part 1: Light-duty vehicles(Amendment 1）	National	Vehicle energy saving	2024/8/27
15	Greenhouse gases - Quantitative methods and requirements of product carbon footprint - Road vehicle products	Industrial	Vehicle energy saving	2024/8/27
16	Greenhouse gases - Quantitative methods and requirements of product carbon footprint - Passenger cars	Industrial	Vehicle energy saving	2024/8/27

4. Automotive standards submitted and awaiting approval in August（National）

Serial No.	Name of the standard	Type	Formulating or revising
1	Performance requirements and test methods of vehicle handfree communication and voice interaction	Recommendatory	Formulating
2	Technical requirements and test methods for on-board positioning system—Part 1: Satellite positioning	Recommendatory	Formulating
3	Measuring method for electric and photometric parameters of filament light sources for power-driven vehicles	Recommendatory	Formulating
4	Road vehicles—Lighting and light- signalling devices—Environmental endurance	Recommendatory	Revising
5	Specification of categories of light sources for power-driven vehicles	Recommendatory	Formulating

Serial No.	Name of the standard	Type	Formulating or revising
6	Recycling of traction battery used in electric vehicle——Management specification（Part2）—— Specifications for construction of recycling service network	Foreign language version	——

5. Automotive standards published in August（National standards）

Serial No.	Standard No.	Name of the standard	Time of publishing	Date of implementation
1	GB/T 44287—2024	Performance requirement and testing methods for electronic braking system(EBS)of commercial vehicles	2024/8/23	2025/3/1
2	GB/T 44298—2024	Intelligent and connected vehicles — Symbols for controls, indicators and tell-tales	2024/8/23	2024/8/23
3	GB/T 44373—2024	Intelligent and Connected Vehicle-Terms and Definitions	2024/8/23	2024/8/23
4	GB 26134—2024	Roof crush resistance of passenger cars	2024/8/23	2025/7/1
5	GB 17354—2024	Front and rear protective devices for passenger cars	2024/8/23	2025/7/1
6	GB 20997—2024	Limits and evaluation targets of fuel consumption for light-duty commercial vehicles	2024/8/23	2026/1/1
7	GB/T 44461.1—2024	Intelligent and connected vehicle— Technical requirements and testing methods for combined driver assistance system — Part 1: Single-lane manoeuvre	2024/8/23	2024/8/23
8	GB/T 44461.2—2024	Intelligent and connected vehicle — Technical requirements and testing methods for combined driver assistance system — Part 2: Multi-lane maneuver	2024/8/23	2024/8/23
9	GB/T 44464—2024	General requirements of vehicle data	2024/8/23	2024/8/23
10	GB/T 44410.1—2024	Road vehicles- Compressed natural gas (CNG) fuel systems — Part 1: Safety requirements	2024/8/23	2024/12/1
11	GB/T 44410.2—2024	Road vehicles — Compressed natural gas (CNG) fuel systems — Part 2: Test methods	2024/8/23	2024/12/1
12	GB 44497—2024	Data storage system for automated driving	2024/8/23	2026/1/1
13	GB 11566—2024	External projections for passenger car	2024/8/23	2026/1/1
14	GB 20182—2024	The cab of commercial vehicles- External projections	2024/8/23	2026/1/1

Serial No.	Standard No.	Name of the standard	Time of publishing	Date of implementation
15	GB 44495—2024	Technical requirements for vehicle cybersecurity	2024/8/23	2026/1/1
16	GB 44496—2024	General technical requirements for software update of vehicles	2024/8/23	2026/1/1
17	GB/T 18385—2024	Battery electric vehicles-Power performance-Test method	2024/8/23	2025/3/1
18	GB/T 19752—2024	Hybrid electric vehicles—Power performance—Test method	2024/8/23	2025/3/1
19	——	Automobiles and trailer — Specifications and test methods of brake part（Amendment 1）	2024/8/23	

Contact Us

Editor	Li Wen	liwen@catarc.ac.cn
Contact persons	Lu Chun	luchun@catarc.ac.cn
	Zhang Honghe	zhanghonghe@catarc.ac.cn
	Fang Zili	fangzili@catarc.ac.cn