

Economy Report of China

for 23rd APLMF Meeting

Metrology Strategy Research and Top - level Design

Established a National Metrological Strategy Advisory Committee of 18 experts composed of the academicians, experts, scholars to provide decision support for the development of metrology nationally.

Strengthening the Construction of Metrological Regulation System. Promote the metrology law revision process. Sorted out the current effective measurement administrative regulations, departmental rules and regulations, normative documents comprehensively.

Improve the measurement technical specification system. Up to now, there are 1603 national measurement technical specifications (including 94 verification system tables, 919 national metrological verification regulations and 590 other metrological technical specifications).

Basic research on measurement and scientific and technological innovation

Strengthened the research of measurement technology and frontier technology, especially the precision measurement of physical constants and primary standard of quantum measurement, and established a new generation of high accuracy and high stability quantum measurement primary standard. All the 183 national measurement

primary standards were systematically reviewed, which further established the strategic status of national measurement primary standards. The 1343 national calibration and measurement capabilities based on national measurement primary standards were internationally recognized and ranked 4th in the world.

To strengthen the national reference material research and development. At present, a total of 9818 kinds of national reference material have been approved, including 2258 kinds of first class and 7560 kinds of second class, which cover 17 application areas determined by ISO standard materials committees such as food, clinical chemistry, environment, biomedicine and geology, and so on.

Constructing National Metrology Innovation System. Organized the drafting of the "Construction program of national metrology technology innovation base". Promote the construction of experimental base and other measurement technology innovation base in Changping Campus of National Institute of Metrology, China

Industrial metrology and energy metrology

Promote the construction of national industrial metrology centers, approved to set up 16 national industrial metrology test center for equipment manufacturing and other fields. Edited case study of "100 case of how metrology provided service to industry". Up to now, a total of 4656 enterprises have obtain metrology management system certification, issued 3512 type approval certificate of import measuring instruments. Strengthen the energy metrology work planning and top-level design, drafted the work of energy

measurement guidance.

Metrology Supervision and Management

To supervise and inspect the use of legal units of measurement in the press, publishing and television fields. Carried out the nationwide supervision and inspection on net content and packaging of pre-packaged goods.

International Cooperation

Serve the development of "The Belt and the Road initiative". Released "The Belt and Road Vision and Actions for Cooperation in Metrology" in the "International Symposium on metrology promote industry" during the "2016 Silk Road International Expo and the 20th Investment & Trade Forum for Cooperation between East & West China" held in May 14th in Xi'an China. It further strengthen the cooperation and exchanges with Republic of Korea, Russia, the United Kingdom and countries along the "The Belt and the Road ".

July 18, 2016, the International Organization of Legal Metrology (OIML) established the world's first "OIML Pilot Training Center (OPTC)" in China. OPTC training course on non-automatic weighing instruments was held through July 18-22, in Beijing, China. Trainer from BIML, PTB and NIM and participants from 21 economies attended the training as trainees.

Celebrate "World Metrology Day" and Metrology Popularization

A nationwide metrology popularization knowledge competition was organized.

Technology Progress Award selected Chinese Society for measurement was announced.

Convened press conference of 10 national measurement primary standards approved for

use. Designed "Metrology Popular Science" special metro carriage to communicate

metrology culture in three-dimensional. Mr. Zhi Shuping, Minister of AQSIQ delivered a

speech on the theme of "Measurement defines the world, and precision changes the future"