



国家质量监督检验检疫总局

General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China



APLMF 22nd Meeting

Report from Working Group on Metrological Control System (MCS)

**Presented by
Yang Youtao
P.R. China**



Outlines

- **1 Assisting for Train the Trainer Course on the Verification of Taxi Meters in Shanghai, China.**
- **2 New Guide line Draft**
 - Guide to the application of pressure metrology in industry safety under legal metrological system
 - Guide on Rice Moisture Measurement



1 Assisting for Train the Trainer Course on the Verification of Taxi Meters in Shanghai, China.





New Guide line

- **Guide to the application of pressure metrology in industry safety under legal metrological system**
- **Guide on Rice Moisture Measurement**



The concept and application background of the pressure metrology

Nowadays, lots of pressure instruments are installed for industrial process. Some of them measure the pressure in pipes, carry out controlling movement, alarm while the pressure is abnormal. Others are applied to simulating a pressure environment in the test equipments. They are also the main units of an important leakage detected test which named “negative pressure test”.



The concept and application background of the pressure metrology

The performance of these pressure instruments relate strongly to the industry safety, meanwhile, as a component in production process the broken gauges themselves would be dangerous as a leaking resource. The implement of “Pressure metrology” is an efficient way of ensuring these pressure instruments working well and the indications are reliable and accurate by means of a series of technical tests and scientific managements. Being lack of “Pressure metrology” means slack managements in industry safety and leads to a “disaster”.



The concept and application background of the pressure metrology

The industry technology has been gotten a great achievement, but “Pressure metrology” is still the necessary safeguard of industry safety. The BP “Deepwater Horizon oil spill” is the best example.



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Significant of the guide

This guide recommends that complete a scientific and systemic “Pressure metrology” in industry sites under legal metrological system for reducing the risk of production process, strength the industry safety management, detecting and preventing the accident in time.



- **Contents**
- **Foreword**
 - Introduction and scope
 - Function of this guide
 - Terminology and concept



Pressure metrological traceability

1. Technical foundation

- The technical foundation of pressure gauges metrological traceability
- pressure transmitters metrological traceability
- pressure controller metrological traceability

2. Reference condition

- The reference condition of pressure gauges metrological traceability
- pressure transmitters metrological traceability
- pressure controllers metrological traceability



Pressure metrological traceability

1. Reference equipment

- The Reference equipment of pressure gauges metrological traceability
- pressure transmitters metrological traceability
- pressure controllers metrological traceability

2. Laboratory requirements

3. Metrologic traceability diagram



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Thank you for your Attention!





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**Proposed 2016 Work Plan
WG on Metrological Control System
(draft)**

Yang Youtao

P.R. China



2016 Work Plan

- 1 Associate with other WG to draft the guide lines.**



2. Plan to hold a workshop of the Metrological Control System

It would be better for Working Group on Metrological Control System to hold a workshop about the Metrological Control System. Still planning a Seminar of Metrological Control System in 2016.



- 3. Plan to hold a Workshop On Software Controlled Measuring Instrument.**
- 4. Think about some new guidelines for APLMF in the Metrological Control System.**



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The end