



Standards
Coordination
Office

National Institute of Standards
and Technology

NIST's Quality System for Measurement Services and ISO/IEC 17025



KEEP CALM
THE DEVELOPMENT TRACK FOR A
REVISION BY ISO IS NORMALLY
36 MONTHS

NIST Quality Management System

Implemented in 17 various Divisions and Offices throughout NIST

- A tiered approach to the documentation: QM-I, QM-II, QM-III
 - About a 50/50 split on the format of the sub-level manuals
 - Aligned with QM-I numbering or ISO/IEC 17025 numbering

ISO/IEC 17025, a sampling of the previous revision in 2005

- Improvement
- Effectiveness of training
- The term “quality system” was replaced with management system
- The term “client” was replaced with customer
- Analysis of quality control data

NIST Policy on Measurement Quality

To the extent permitted by law, NIST maintains a quality management system that conforms with the international standard ISO/IEC 17025 and the relevant requirements of ISO Guide 34 as they apply to the Standard Reference Materials[®] (SRMs[®]) and related services that NIST delivers.

Implementing a quality system for NIST: Beyond 17025

- NIST Quality System examples:
 - Quarterly quality report topics
 - Personnel
 - NIST Traceability Policy
 - NIST Guidelines for the evaluation and expression of measurement uncertainty
 - NIST Calibration Reports and NIST Certificates of Analysis
 - Federal regulations, legal requirements, ethical standards, Administrative and Management Directives

Implementing quality systems within NMIs: Beyond 17025

- CIPM MRA Guidance Documents
 - Traceability, Oct 2009
 - Guidelines for the monitoring and reporting of the operation of quality systems, Oct 2010
- JCRB Documents
 - Uncertainty contributions of the device under calibration or measurement, Feb 2002
 - RMO annual reports – quality system updates from the NMIs, JCRB resolution 22/2 March 2009
 - Guidelines for the monitoring and reporting of the operation of Quality Systems, March 2003

Importance of being aware of the ISO process and the timeliness related to 17025

- Facilitates a unified and coordinated approach for NIST staff to participate in the process
- Provides us with the opportunity to assess the effects on our Quality Management System
 - Proactively incorporate changes
- Enables us to provide our customers and stakeholders with reliable information



Thank you for your interest and attention

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