

TC-Q Review Process

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Outline

- Introduction
- TC-Q processes for QMS review
- TC-Q documentation
- Initial evaluation of QMS
- Re-evaluation of QMS
- QMS Annual reporting

- EURAMET database has records of **116** institutes
- 37 NMIs (members)
- 78 DIs (Associates)
- 1 International Organization – IAEA
- 1 Associated Candidate - INM

TC-Q granted confidence in QMS of 107 institutes

Introduction



- NMIs/DIs with non-approved QMS

Cyprus MCIT

Iceland NEST

Luxembourg ILNAS, LGUL

Malta MCCAA-SMI

Norway NIVA

Turkey MRC MI-UAL

Moldavia INM

- ISO/IEC 17025 to cover calibration and measurement activities under the CIPM MRA
- Production of Certified Reference Materials (CRMs) shall be covered by ISO/IEC 17034
- QMS meeting the requirements of ISO/IEC 17025 assessed by an accreditation body fulfilling the requirements of ISO/IEC 17011 and should be a signatory to the ILAC MRA
- QMS following ISO/IEC 17025 without third-party accreditation – considered as a self declaration

TC-Q processes



- Initial evaluation of QMS
- Re-evaluation of QMS – every 5 years
- QMS Monitoring through Annual Reporting
- On-site peer visits

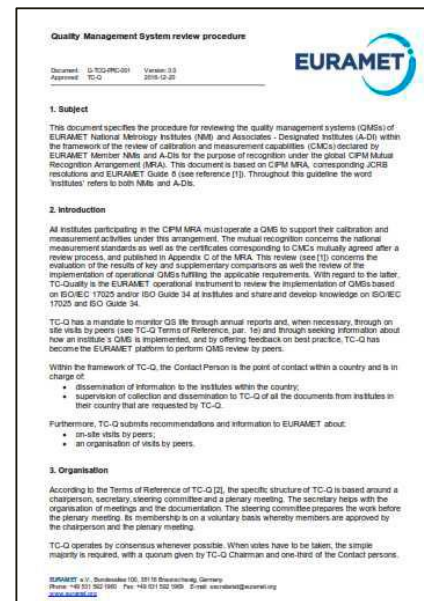
CIPM MRA-G-02 JCRB guidelines for the monitoring and reporting of the operation of quality systems by RMOs

CIPM MRA-G-03 Guidelines for the review of Quality Systems operated by IGO institutes and/or designated institutes, and the review of their calibration and measurement capabilities (CMCs)

TC-Q Documentation



- TC-Q documentation consist of:
- Quality Management System review procedure
- TC-Q Guidelines
- Templates
- Records (register)

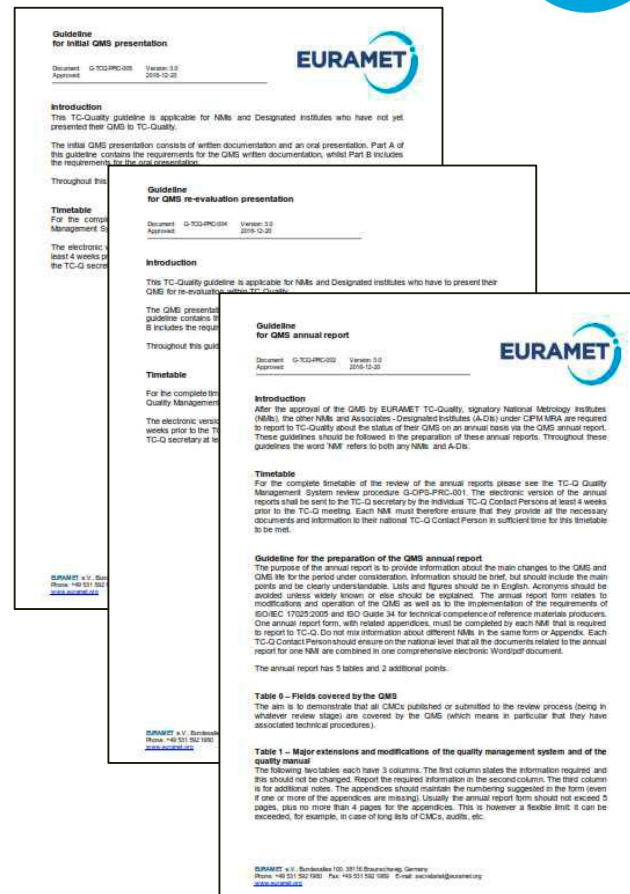


All these documents are publicly available on the EURAMET website.

TC-Q Documentation: Guides



- Guideline for initial QMS presentation
- Guideline for QMS re-evaluation presentation
- Guideline for QMS Annual Report
- Guide for on site visits by peers



TC-Q Documents: Templates



- Table of Cross References
- Template for QMS Annual Reporting
- Template of the final peer review record

EURAMET/TC-Quality
TC-Q-QA-Table_of_Cross_References_02

Name of the NMI or designated institute:

EURAMET

Please fill the table below with the **ANSI standards, standards or documents** in accordance with requirements.
When a requirement is not documented fill the column **"22.1.1.1.1"** (effective required by the standard)

ISO 17025:2005 Requirement	Q.M. clause	Procedures / Instructions	To be issued		Remarks
			Deadline	Responsible	
4. Management Requirements					
4.1 ORGANIZATION					
<ul style="list-style-type: none"> legal responsibility and autonomy procedures for protection of confidential information procedures to avoid reduction in confidence definition of organizational structure, responsibilities, quality manager, etc. personnel aware of the relevance and importance of their activities and their contribution to the QMS 					
4.2 MANAGEMENT SYSTEM					
<ul style="list-style-type: none"> coherence and structure documentation Quality Manual, policy and procedures procedures consistent with standard and quality policy defined roles and responsibilities of technical management in Quality Manual 					
4.3 DOCUMENT CONTROL					
<ul style="list-style-type: none"> procedures for control of quality documents (internal and external) approval, issue and changes 					

Date: _____ Page 1 / 6

QMS Annual Report
for the year YYYY... by

EURAMET

Document: G-TQC/NP-003 Version: 2.0
Last updated: 2018-03-22

Operation of ISO/IEC 17025 and ISO Guide 34 requirements (ISO Guide 34 where applicable)
for the purposes of CIPM MRA.

Modifications and operation of the QMS (approx. 5 pages + Appendices *).

0 - Fields covered by the QMS:

Fields and relevant EURAMET Technical committees	Field covered by the QMS? (Y/N)	CMCs published? (Y/N)	CMCs in the review process? (Y/N)	CMCs in the review process covered by GMP? (Y/N)
TC-ALV Acoustics, Ultrasound and Vibration				
TC-EM Electricity and Magnetism				
TC-F Flow				
TC-IR Ionizing Radiation				
TC-L Length				
TC-M Mass and Related Quantities				
TC-MC Metrology in Chemistry				
TC-MC Metrology in Chemistry (CMA)				
TC-PR Photometry and Radiometry				
TC-T Thermometry				
TC-TP Time and Frequency				

1 - Major extensions and modifications of the quality management system and of the quality manual:

Subject	Reported information	Further comments
At least one of the NMIs (naming key staff, their names and their roles). The organization should be reported in Appendix 1, even if unchanged. Changes should be indicated in the comments.		

Appendices, when required, should be as short as possible.
* At least Director, Quality Manager and Head of Laboratories.

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Template of the final peer review record

EURAMET

Document: G-TQC/NP-002 Version: 2.0
Approved: TC-Q 2018-03-22

EURAMET Project	Subject field	Type	TC-Q
Ref. No. / address	Subject field	Type	Participants
	Quality	On-site peer review	

PERIODICAL/EXTRAORDINARY PEER REVIEW RECORD

NMI or DI visited:

Visit Start date: _____ Visit End date: _____

Names and affiliations of the reviewers:

Name	Affiliation	Signature

Assigned responsible person of the visited NMI or DI:

Name	Position	Signature

Programme of the on-site visit (e.g. ranges of CMCs specified by internal NM Service Identifiers):

Forwarded documentation

	submitted (tick if YES)	accepted / approved (tick if YES)
Quality manual	<input type="checkbox"/>	<input type="checkbox"/>
List of used procedures	<input type="checkbox"/>	<input type="checkbox"/>
List of completed comparisons	<input type="checkbox"/>	<input type="checkbox"/>
List of services included in the App. C of the MRA	<input type="checkbox"/>	<input type="checkbox"/>
Reference written standards	<input type="checkbox"/>	<input type="checkbox"/>

Other documentation (comments if necessary)

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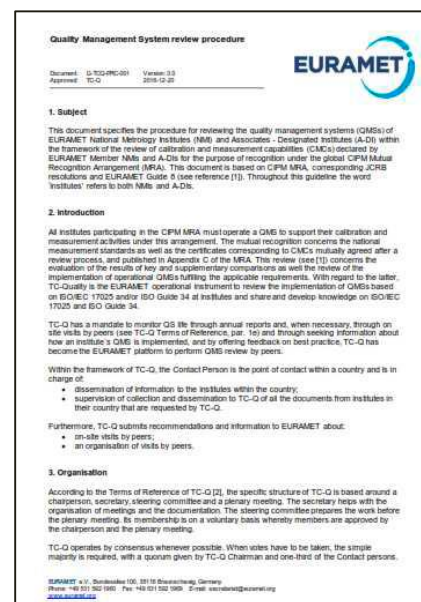
QMS review procedure - contents



- Code: G-TCQ-PRC-001
- Version: 3.0
- Date: 20/12/2016
- Volume: 6 pages

Contents:

- Subject
- Introduction
- Organisation
- Review Criteria
- Review procedure and timetable
- References



Implementation of the procedure



- Written report(s) has to be prepared carefully
- Reports has to be submitted in time
- TC-Q contact persons are responsible for collection of all reports from DIs
- TC-Q contact persons have to check contents of the collected reports
- Any unclear information could be triggering either major or minor questions
- Do not try to write fairy tale, present realities

Specific guidelines for accredited NMIs/DIs



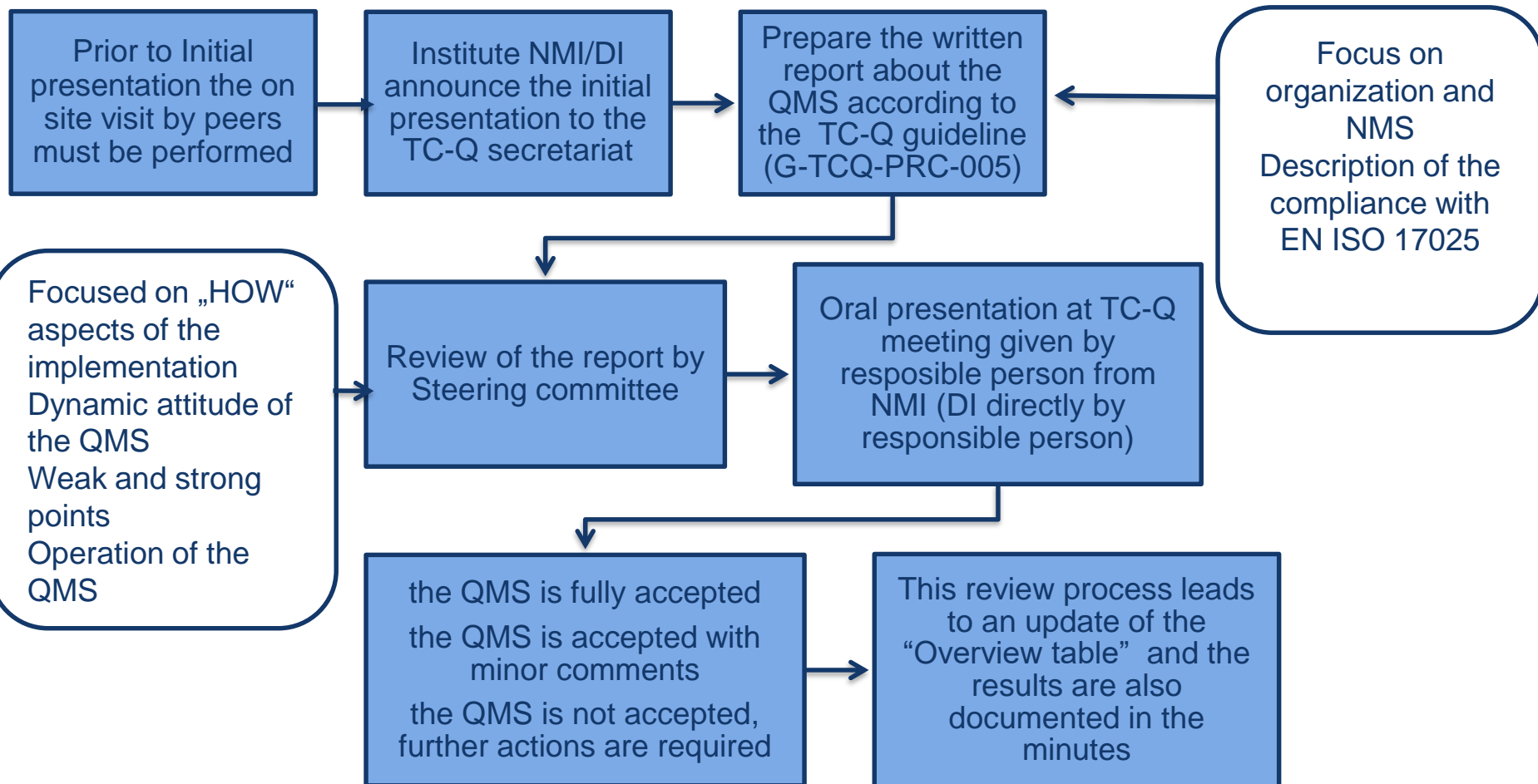
- The claimed CMCs are identical with CMCs assessed by the accreditation body and documented in the assessment report;
- Technical assessors shall come from a laboratory which is at least on the level as the assessed laboratory or meets requirements of CIPM 2007-25
- The names and qualifications of assessors must be made known to TC-Q;
- The relevant excerpts from assessment reports, especially those concerning findings, must be made available to TC-Q by way of annual reports.

Specific guidelines for self-declared NMIs/DIs



- The QMS should undergo an on-site peer review visit covering both the management and technical requirements of ISO/IEC 17025 and/or ISO/IEC 17034 (where applicable);
- Institutes are to arrange for on-site peer review visits by themselves in compliance with the provisions of EURAMET “Guide for on-site visits by peers in the framework of CIPM MRA” usually using external reviewers;
- Institutes submitting their CMCs for the first time shall undergo an onsite peer review prior to their initial QMS presentation.

Initial QMS Evaluation



Information required for review



Information on national metrology system

Quality policy (Including quality objectives).

Structure of NMI (Including organogram showing key staff, their names and their roles).

QMS structure

Table of contents of the quality manual

List of general and administrative procedures

List of technical procedures

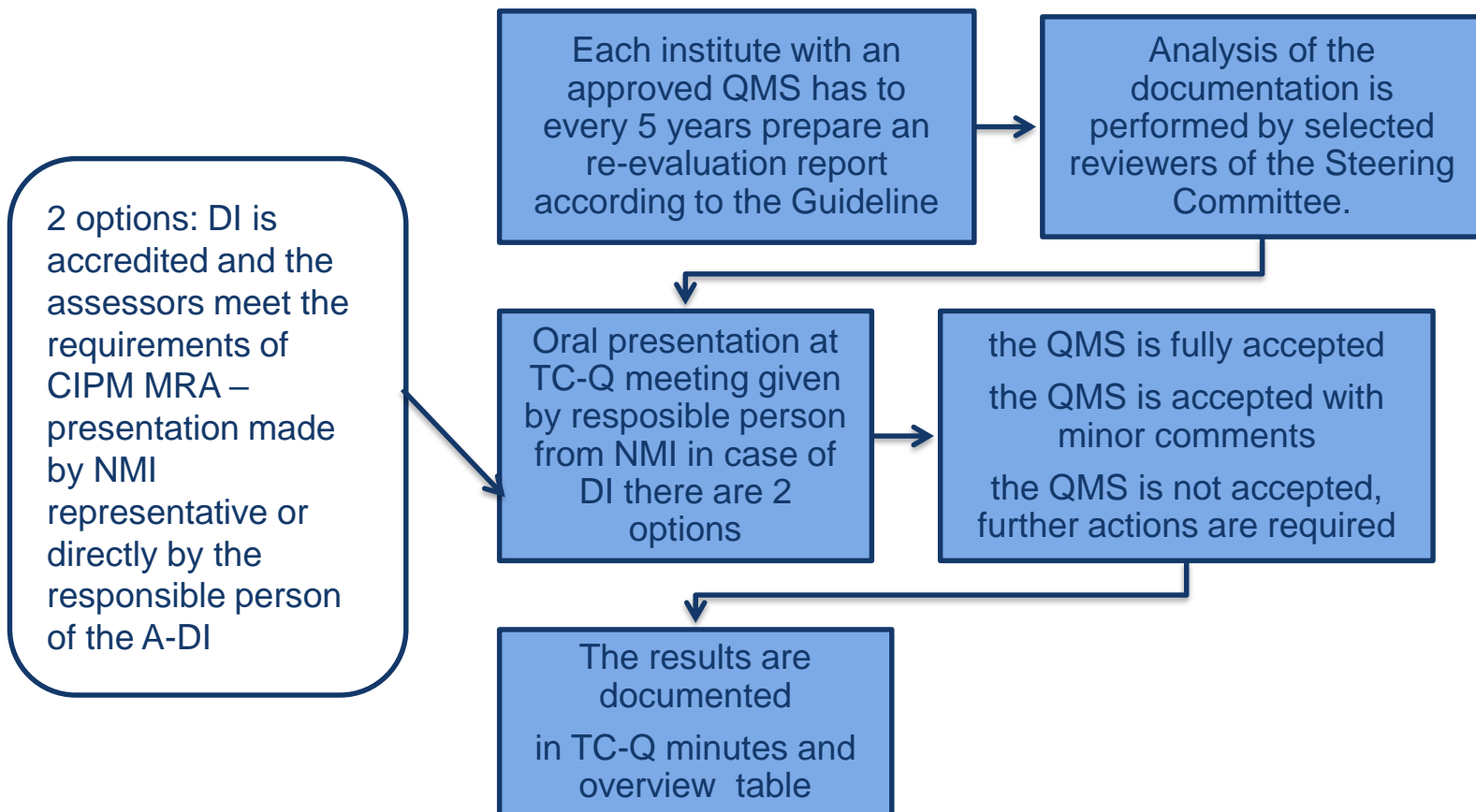
QMS and calibration measurement capabilities covered by QMS

Information required for review

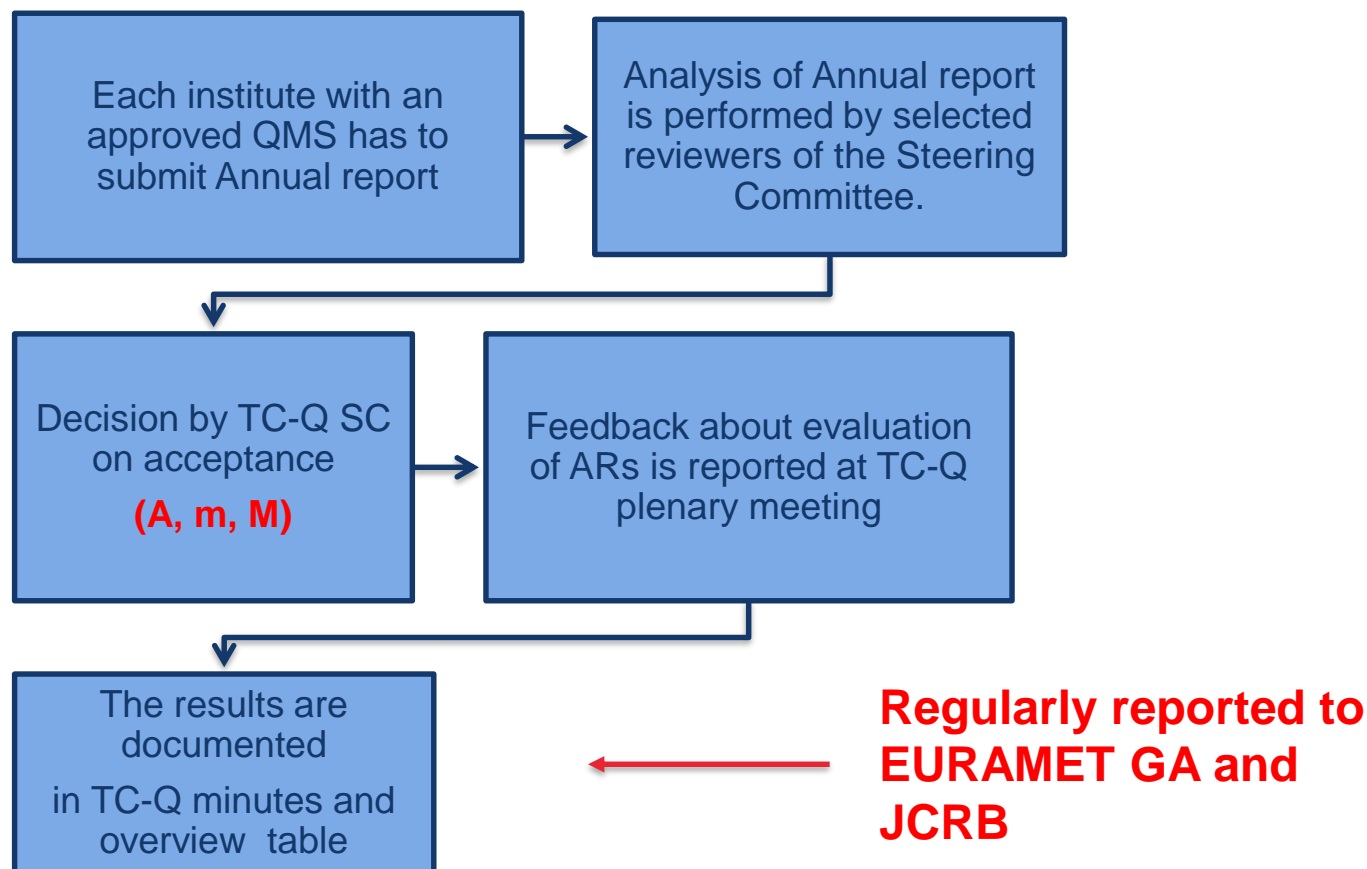


- Information about QMS Life
- Continuous improvement
- Service to the customer
- Complaints
- Non-conforming work
- Internal audits
- Management reviews
- Results of on-site visits or accreditation
- Further information on ISO/IEC 17034 implementation for reference materials (CRMs)
- From the 2019 TC-Q meeting onwards all initial presentations of NMIs/DIs shall be in accordance with the requirements of the ISO/IEC 17025:2017 standard.

QMS Re-evaluation



QMS Annual reporting



A - the QMS is fully accepted

m - the QMS is accepted with minor comments

M - the QMS is not accepted, further actions are required

Thank you for your attention!



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