API SUBCOMMITTEE 18 – QUALITY STANDARDS AND ACTIVITIES
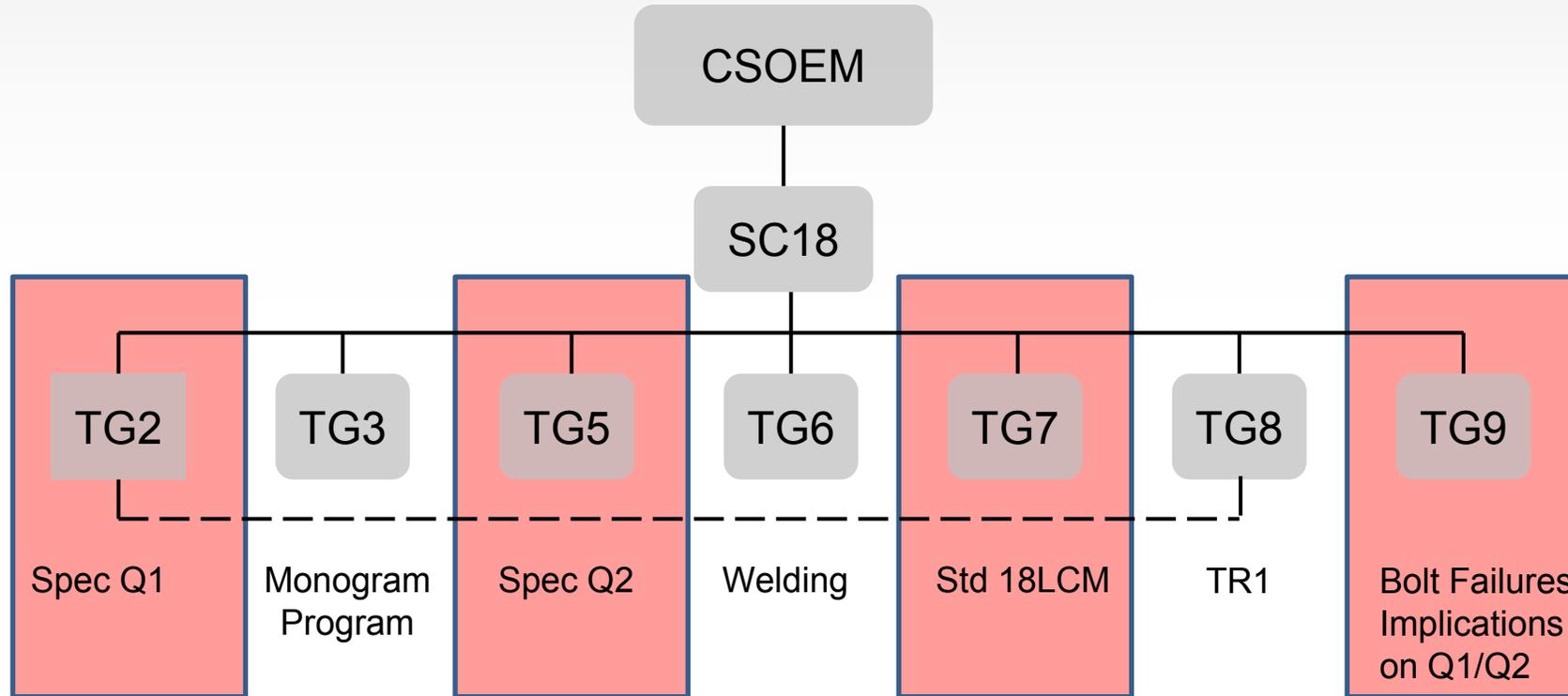
Kim Wiita
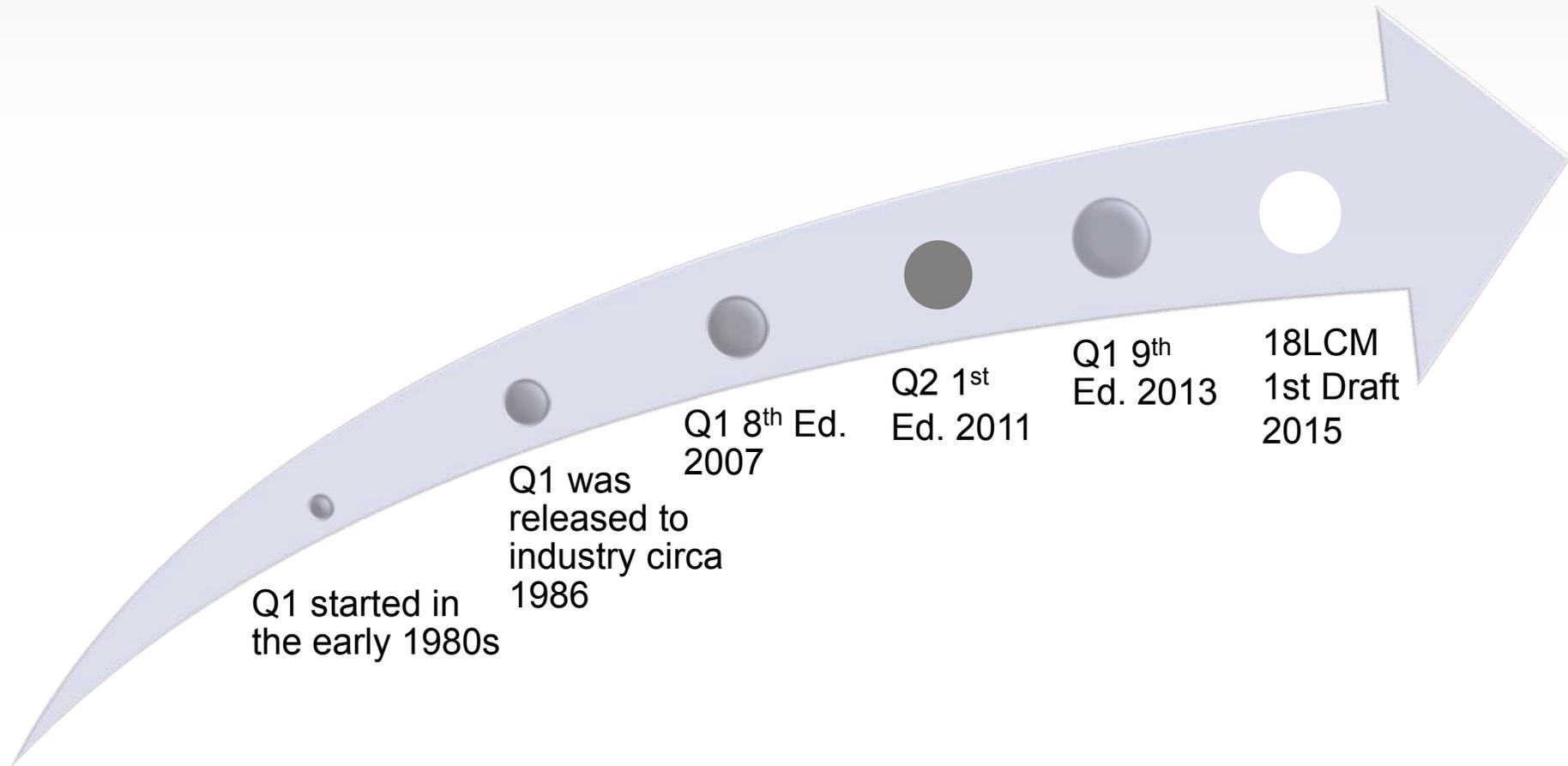BP
API Subcommittee 18 Chair

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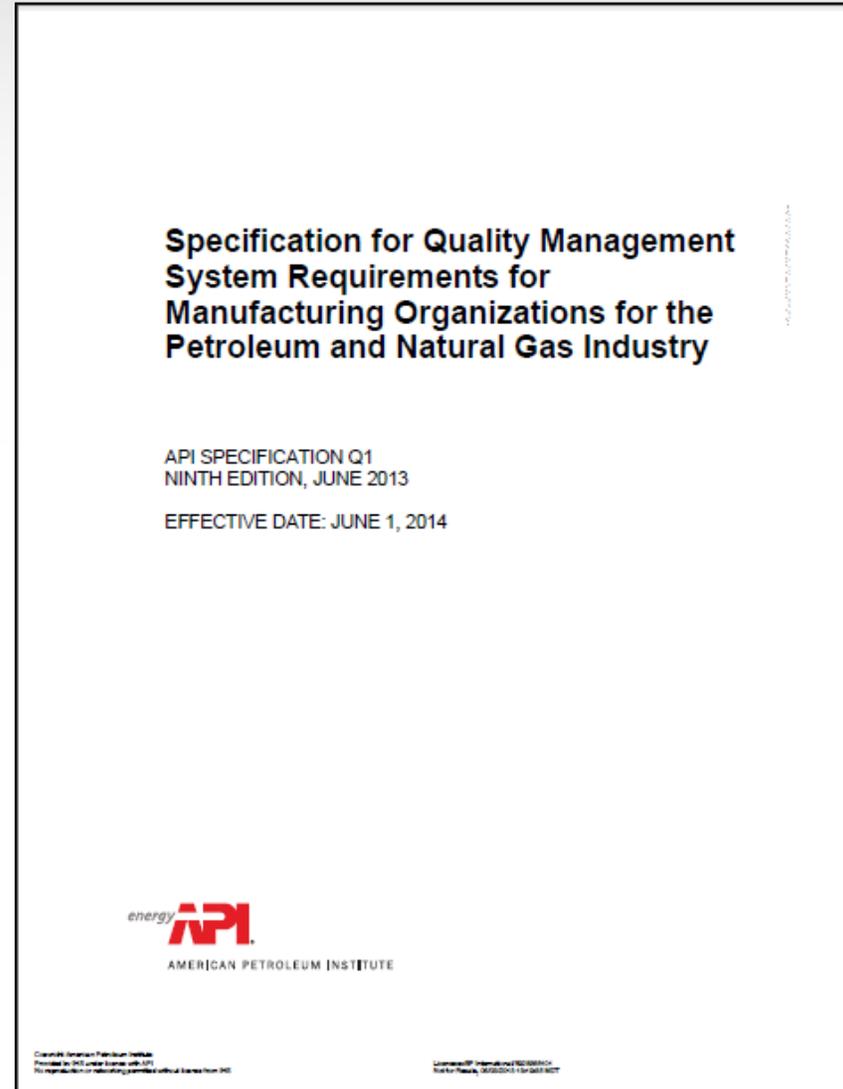# Subcommittee 18 Organization

Timeline of SC18 Specifications & Standards

Q1 9th Ed. 2013

18LCM 1st Draft 2015

Q2 1st Ed. 2011

Q1 8th Ed. 2007

Q1 was released to industry circa 1986

Q1 started in the early 1980s

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Task Group 2

- Responsible for Spec Q1

- Currently no work planned for document until 2017

- Task Group 8 working on Technical Report 18TR1 – Guidance on Changes to API Q1 9th Edition

  - Comment resolution complete and publication expected 2Q15

Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry

API SPECIFICATION Q1
NINTH EDITION, JUNE 2013

EFFECTIVE DATE: JUNE 1, 2014

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High Level Changes API Q1 9th Edition

- Chronological re-organization following Q2

- ~ 93 additional requirements
  - 33% increase from 8th Edition

- New sections added

- Many existing sections modified

- ISO 9001:2008 integrated into body of Q1
  - no more "boxed text"
  - no more "supplemental requirements"

- Cross references between 8th & 9th editions
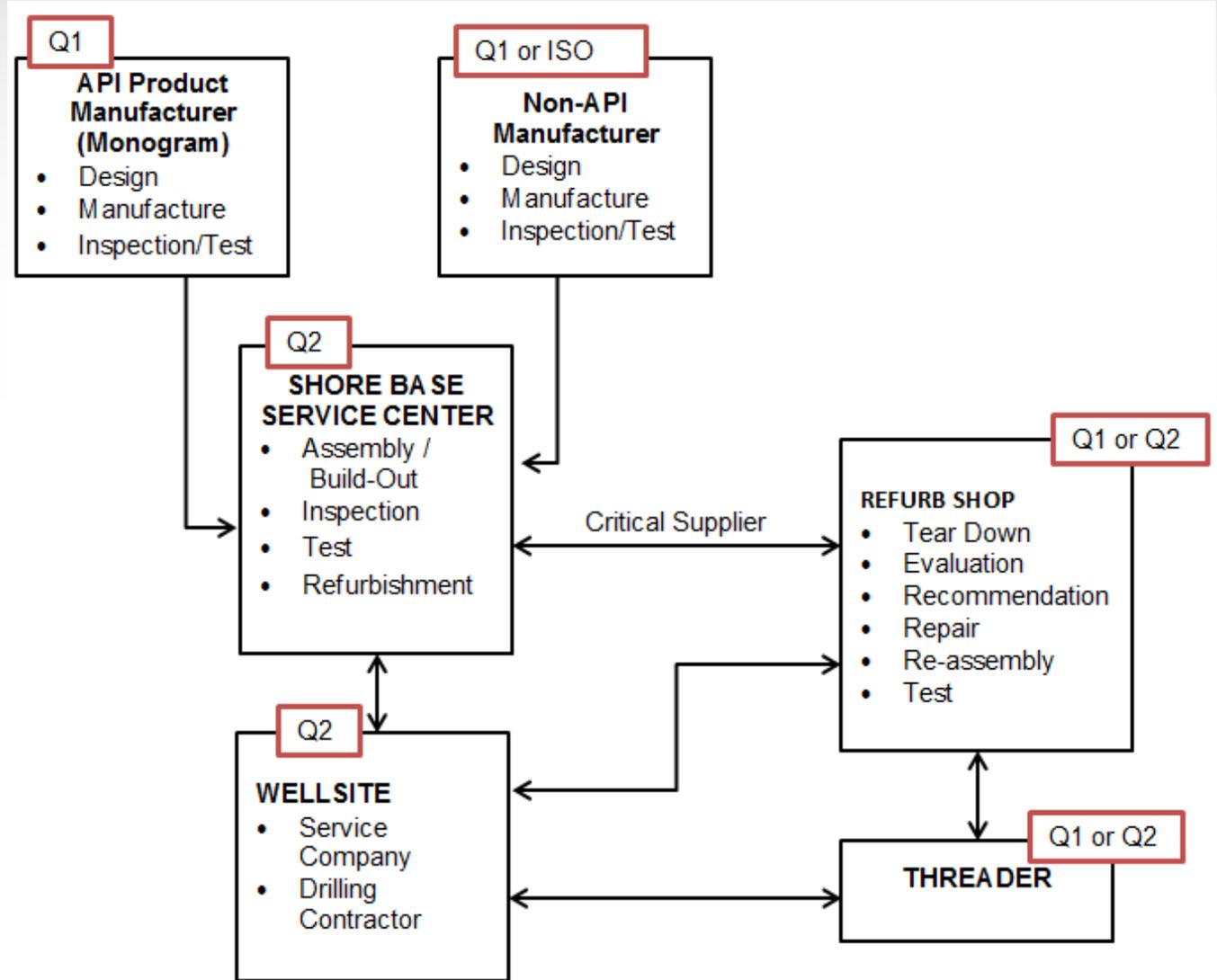
Supply Chain Impacts

- **New Section 5.3 – Risk Assessment and Management :**

  - Risk assessments are structured around

    - ✓ risks to product delivery
    - ✓ risks to product quality

- **Modified Section 5.4 – Design & Development**

  - Design Output now includes the need to identify critical products or components

- **Modified Section 5.6 – Purchasing**

  - The procedure for purchasing now addresses:

    - Determination of criticality of activities or products

    - Maintaining a list of approved suppliers and their scope of approval

  - Includes criteria for "critical" and "noncritical" supplier initial evaluation and re-evaluation

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Task Group 5

- Responsible for Spec Q2

- Scheduled for revision in 2016

  - Work Group formed to review needed changes (primarily editorial) to provide needed clarifications and keep alignment with Spec Q1

  - Working on implementation guidance document based on input from initial beta-site audits and current initial registration audits
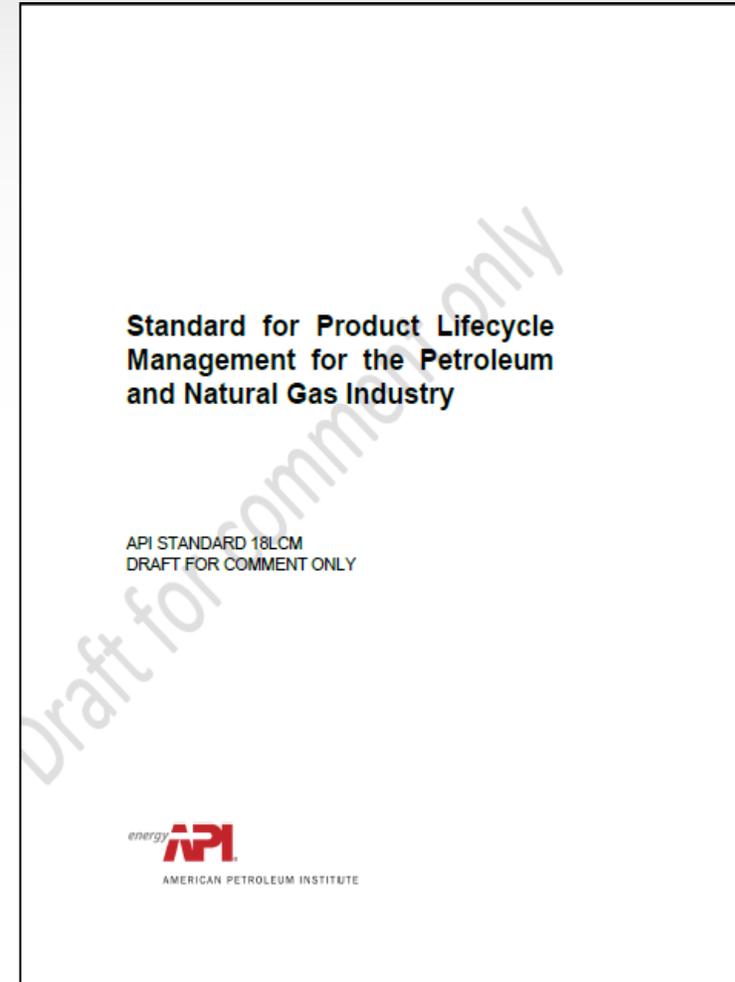

Evolution of API Spec Q2

DEVELOPED	PUBLISHED	BETA TESTING	COMPLIANCE	CERTIFICATION
2010	2011	2012	2013	2014

Specification for Quality Management System Requirements for Service Supply Organizations for the Petroleum and Natural Gas Industries

API SPECIFICATION Q2
FIRST EDITION, DECEMBER 2011

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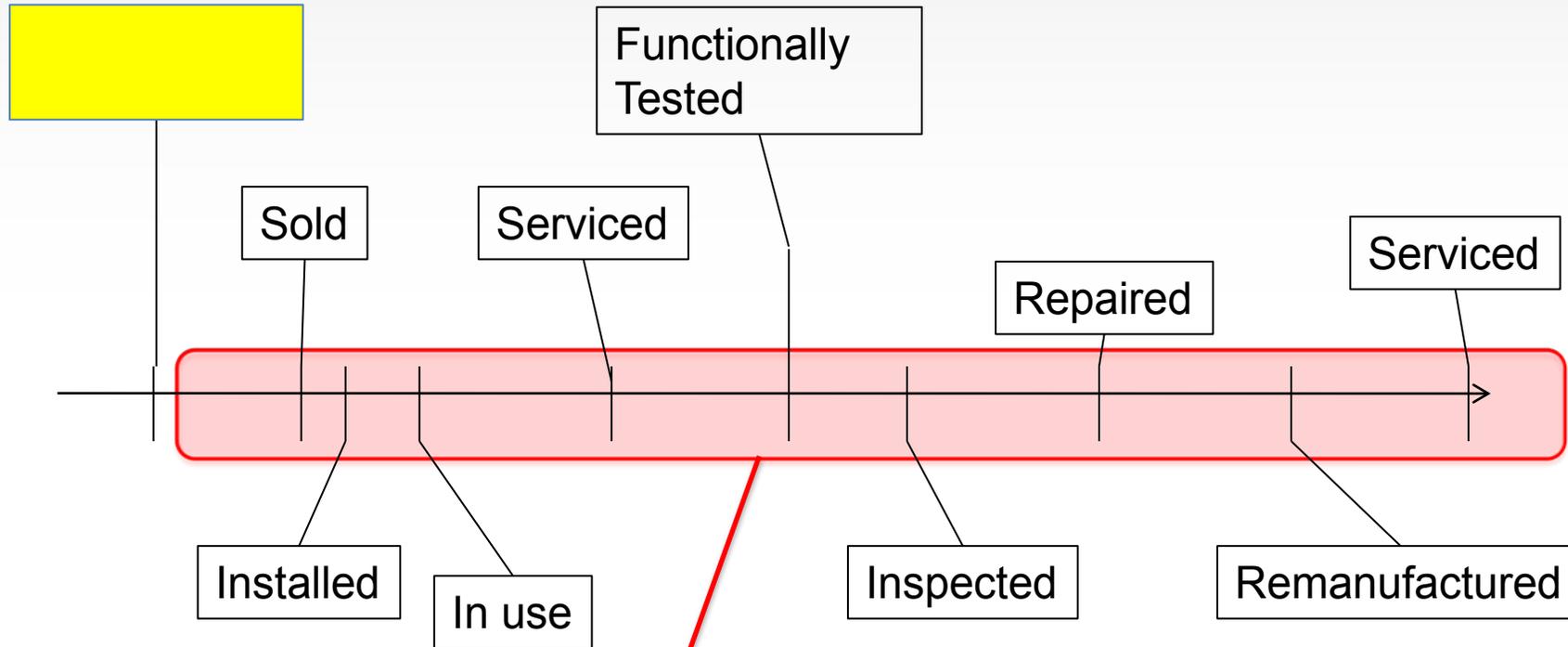
Relationship between API Q1 & Q2

Task Group 7

- Responsible for Standard 18LCM

- 1st Draft sent out for comment ballot on February 9, 2015 with responses due March 23, 2015

  - Task Group will respond to comments and then send out approval ballot

Standard for Product Lifecycle Management for the Petroleum and Natural Gas Industry

API STANDARD 18LCM
DRAFT FOR COMMENT ONLY

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Today: The Product Life Cycle

Sold

Serviced

Functionally Tested

Repaired

Serviced

Installed

In use

Inspected

Remanufactured

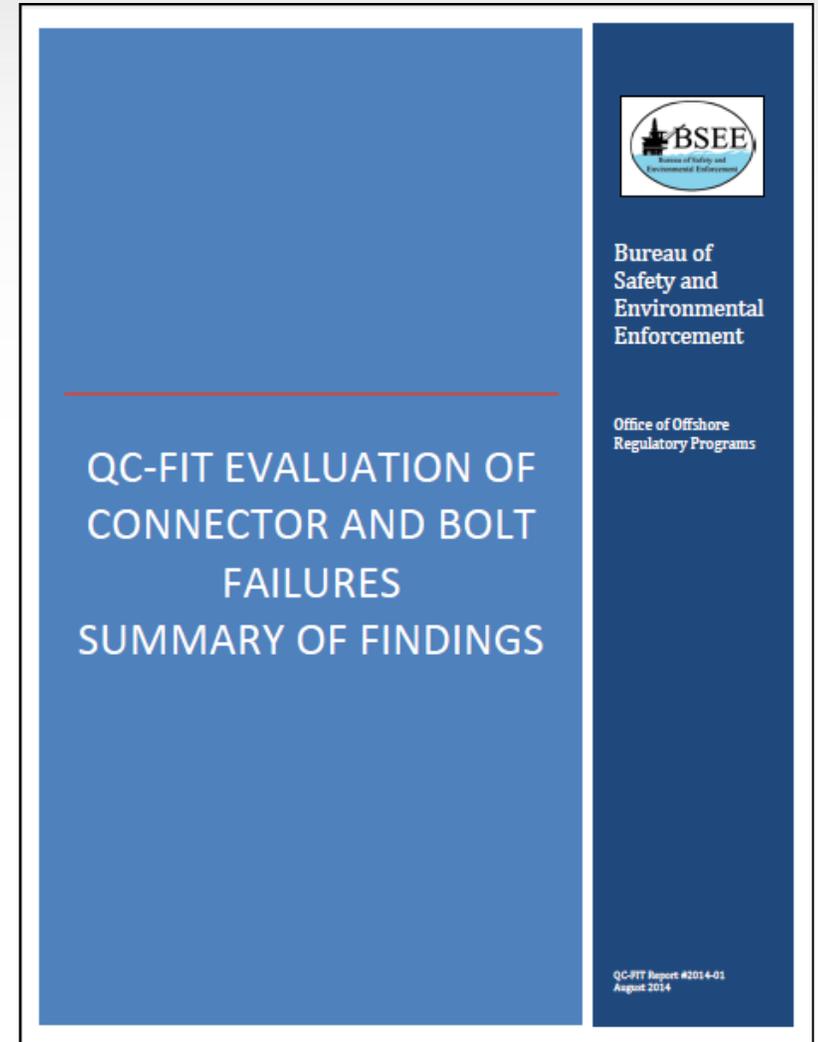No formal industry standard to cover this complete scope

Maintenance & Operational Status ?
Standards Compliance?
Design Changes & Criteria?
Regulatory Requirements?

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Lifecycle Management Standard

- Requires QMS conforming to API Spec Q2 as a baseline

- Addresses both Q1 and Q2 requirements

- Product definition specifies requirements for product based on Industry standards, OEM and regulatory requirements

- Specific LCM requirements are defined in the LCMP and product definition

- 5 product status levels, two levels are limited to products covered by API specs

- LCMP defines execution requirements for product maintenance

Task Group 9

- Responsible to evaluate the BSEE Report on Bolt Failures for potential implications to Specs Q1/Q2

- Task Group formed in February 2015

- 20 Interested Contributors

- Draft Scope and Timeline to be finalized in April 2015 and will be presented to SC18 at the API Summer Standards Conference

BSEE

Bureau of Safety and Environmental Enforcement

Office of Offshore Regulatory Programs

QC-FIT EVALUATION OF CONNECTOR AND BOLT FAILURES
SUMMARY OF FINDINGS

QC-FIT Report #2014-01
August 2014

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