

# API 17 winter meeting update

## Mark Siegmund/John Allen

1. A 17N errata has been issued which refers to 17Q on specific appendix items, however differences still exist between these documents.

We (courtesy of Ed Knerr) presented the known differences that still remain between the documents at the summer API conference (pages below).

2. These anomalies were apparent in the finally approved 17N and 17Q documents, but as no published document was issued to the technical authors, chairs, or any committee members, the 17N committee cannot be certain these are remain and that further differences may have materialized in the publishing of 17N and 17Q.

3. **Action:** API to provide guidance as to how these remaining anomalies are to be corrected, communicated, or otherwise managed for the benefit and guidance to the API 17 community.

4. **Action:** API to issue the final errata based version of API 17N and 17Q to the API technical author (John Strutt) and chair(s) for final review & confirmation of all differences and anomalies.

5. Technical Author and chairs will identify and categorize criticality of all visible differences and anomalies, and make a recommendation to API for a new 17N errata or a revised API 17N edition based on existing API protocols where disagreement between API standards exists.

Committee:

With Don Wells Hess and Mark Siegmund BP retiring from respective Operators we are looking for 'replacement' Operators to participate in this committee

## DETAILS OF DIFFERENCES BELOW

### TQP description comparison:

The process diagrams look very look very different, but the steps 1 to 9 are reasonably close in intent and 17Q has an additional step 10. Wording comparison below and differences highlighted in red

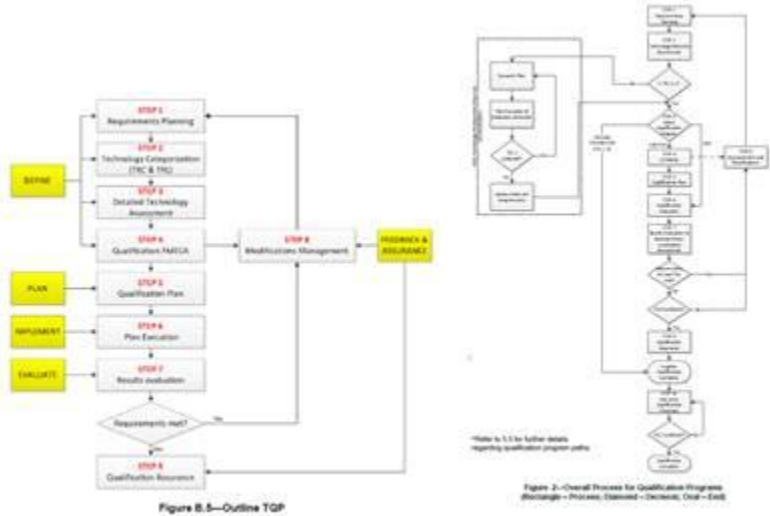
STEP	17N description	17Q description
1	Requirements planning	Requirements planning
2	Technology Categorisation	Technology Maturity Assessment
3	Detailed Technology assessment	Select qualification Program
4	Qualification FMECA	Q-FMECA
5	Qualification Plan	Qualification Plan
6	Plan Execution	Qualification Execution
7	Results evaluation	Results evaluation
8	Modifications Management	Improvements and modifications
9	Qualification assurance	Qualification Assurance
10		End Users Qualification process

### TRL Description Comparison

Differences highlighted in red

TRL	17N wording	17Q wording
0	Basic Research Basic R&D paper concept.	<b>Basic Research</b> (Basic R&D, paper concept)
1	<b>Concept Selection</b> Proof of concept as a paper study or R&D experiments.	<b>Concept Development</b> (Development of concept as a paper study or R&D experiment)
2	Concept Demonstration Experimental proof of concept using physical model tests.	<b>Concept Demonstration</b> (Experimental proof of concept using physical model tests)
3	Prototype Development System function, performance, and reliability tested.	<b>Prototype Development</b> (Prototype functional, performance and reliability tested)
4	Product Validation <b>Pre-production system</b> validated and environment tested.	<b>Product Validation</b> (Product validated and tested)
5	System Integration Testing <b>Production</b> system interface tested.	<b>System Integration Testing</b> (System interface tested)
6	<b>System Installed</b> Production system installed and tested.	<b>System Installation and Commissioning</b> (System installed and tested)
	System Operation	<b>System Operation</b>

Actual Process diagrams shown below.



**FOR INFORMATION**

One of issues that evolved quite a bit as a result of discussion was the approach to maturity assessment. The version now in 17Q is quite different from the version (figure E.2) that was in the 17N appendix E on Technology Qualification, but as the appendix is to be removed from N the conflict will be removed.

		Technology Readiness Level (TRL)								
		System Operation	System Installation / Commissioning	System Integration Testing	Product Validation	Prototype Development	Concept Demonstration	Concept Development	Basic Research	
Technical Risk Categorical (TRC)	Very High	A	7	6	5	4	3	2	1	0
	High	B	7	6	5	4	3	2	1	0
	Medium	C	7	6	5	4	3	2	1	0
	Low	D	7	6	5	4	3	2	1	0

Figure 3—TRC/TRL Correlation Matrix

