

Pathway to Deployment: New Technology Qualification (NTQ)

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Regulatory Compliance Challenges... and Solutions

Keegan Plaskon |



Regulatory Compliance Challenges & Solutions

Host & Moderator - Keegan Plaskon, Director of Business Development, ABS

Industry Bridge - Captain Tom Hudson, MOL Group

Technology / Regulatory Panelists

- RDML John Nadeau, USCG (Ret.)
- Leiv Kallestad, CEO, OptiMarin
- José Luis Duarte, Marine Business Development Manager – North America, Thordon Bearings
- Thanasis Sourlagkas, Head of Sales, METIS Cyberspace Technology SA
- Giorgos Kyriazis, P Ship Systems

Pathway to Deployment: A Methodology

- What is “New Tech”
 - i. Existing design/process/procedures in new or novel applications
 - ii. Existing design/process/procedures challenging the present boundaries/envelopes of current offshore or marine applications
 - iii. New or novel design/process/procedures in existing applications
 - iv. New or novel design/process/procedures in new or novel applications
- Class role is to facilitate the evaluation process for technology development for maritime applications

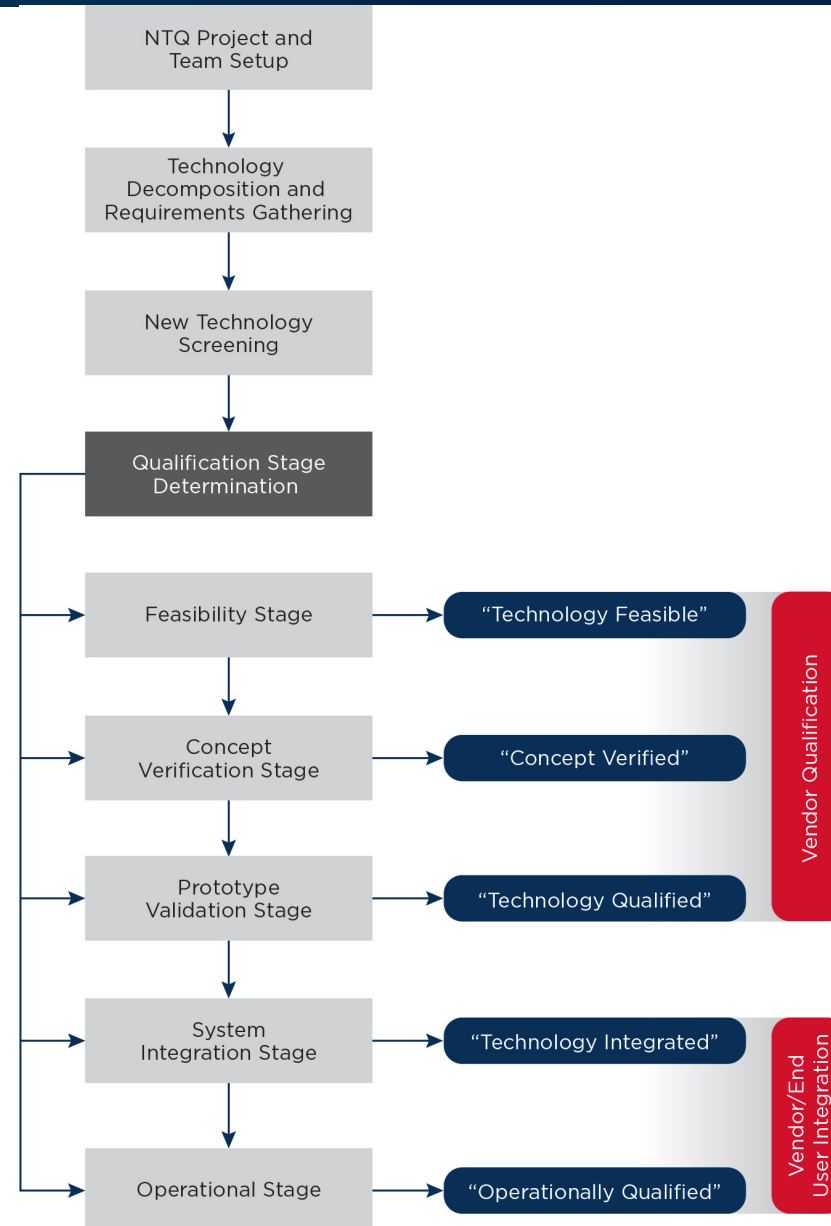
ABS NTQ Guidance Notes



[Guidance Notes on Qualifying New Technologies](#)

NTQ Process

- Five stage process compatible with API RP 17N/Q, ISO 16290 and US DoD
- At the end of each stage an ABS Statement of Maturity is issued
- Tailored for new/unproven vendor applications
- New Technology System Hierarchy
 - System, Sub-system, Equipment, Component or materials



Industry TRL Comparison

ABS Qualification Stage	API RP 17N/Q TRL	US DoD TRLs	ISO 16290 TRLs
Feasibility Stage	0	1	1
	1	2	2
Concept Verification Stage	2	3	3
		4	4
Prototype Validation Stage	3	5	5
	4	6	6
System Integration Stage	5	7	7
	6	8	8
Operational Stage	7	9	9

Product Design Assessment

- Upon completion of the Prototype Validation Stage (“Technology Qualified”) new technologies may be “Type Approved” under the ABS Type Approval Program.
- During the Prototype Validation Stage, if all the engineering evaluations have been completed, a Product Design Assessment (PDA) can be issued prior to further consideration for ABS Type Approval.



Thank You

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