



Maritime Command and Staff Trainer (MCAST)

Appendix G to SoW: Technical Reviews

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Defence Equipment & Support

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1. MCAST Technical Reviews Framework

- 1.1. IEEE 15288.2¹ states "technical reviews and audits are a foundation element of an effective systems engineering (SE) approach and form the backbone of a robust technical assessment process. Technical reviews and audits provide a venue for baselining technical requirements, evaluating the system's technical maturity, and identifying and assessing risks to system performance, cost, and schedule".
- 1.2. The technical reviews and tests stated in Table 1 are expected to be held as part of the delivery of the Maritime Command and Staff Trainer (MCAST) contract. The Contractor should tailor the application of IEEE 15288.2 and the technical review and test events described below to their proposed solution, lifecycle approach and supply chain and include this within their Engineering Management Plan (EMP) for acceptance by the Authority.
- 1.3. In addition to the events listed in Table 1, reviews and tests associated with the conduct of exercises are expected to be held as part of the delivery of the MCAST contract as specified in Annex A Statement of Work (SoW); including SoW 2.1.2.1.10 (exercise design review), SoW 2.1.2.1.12 (exercise test), SoW 2.2.1.1.33 (After Action Review (AAR)).

Review / Test Event Purpose Success Criteria System Requirements Review (SRR) IEEE 15288.2 System Requirements Review (SRR) and System Functional Review (SFR) **Preliminary Design** Review (PDR) IEEE 15288.2 Preliminary Design Review (PDR)

Table 1: List of Technical Reviews for the MCAST Contract

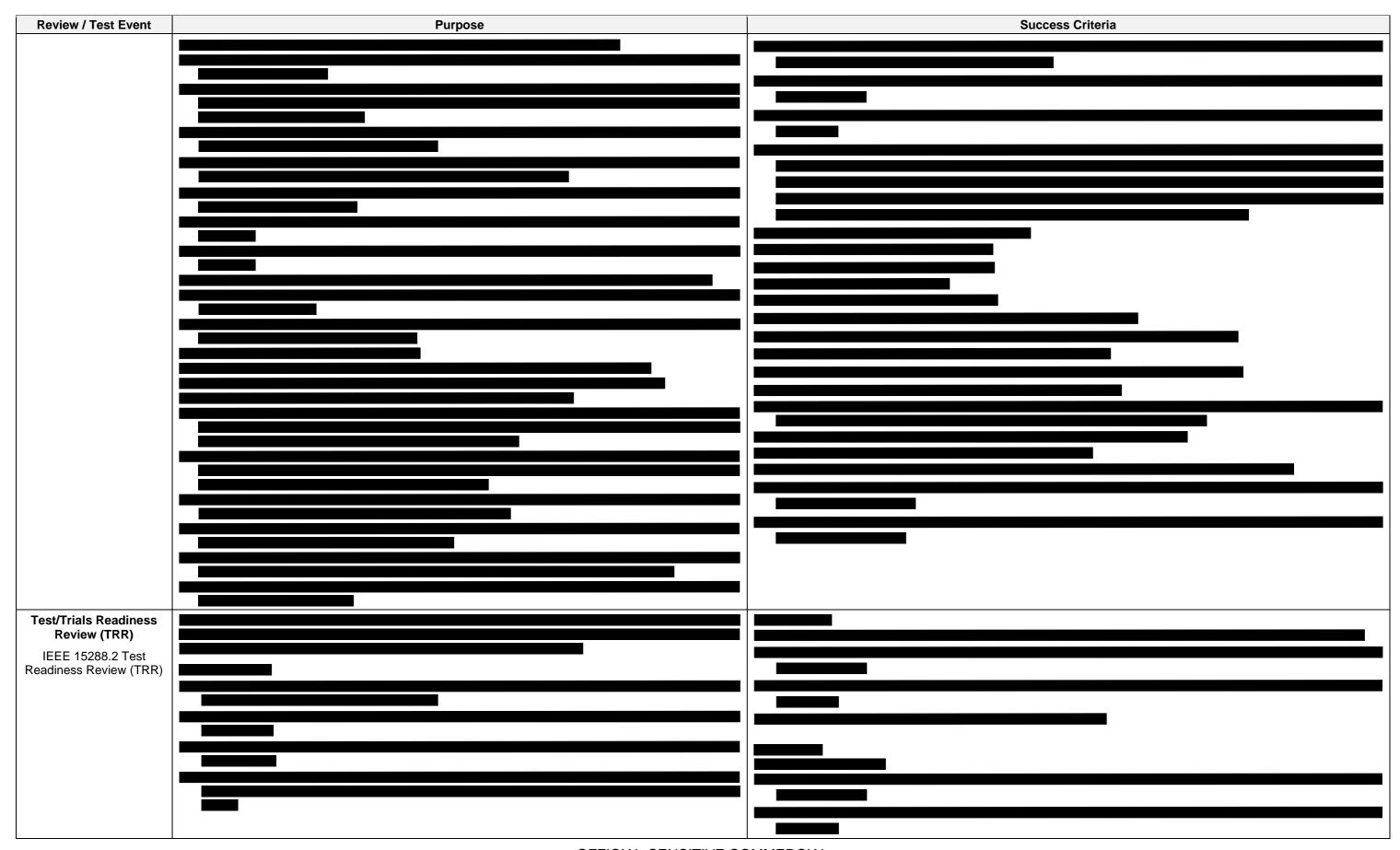
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¹ IEEE Std 15288.2-2014, IEEE Standard for Technical Reviews and Audits on Defense Programs.



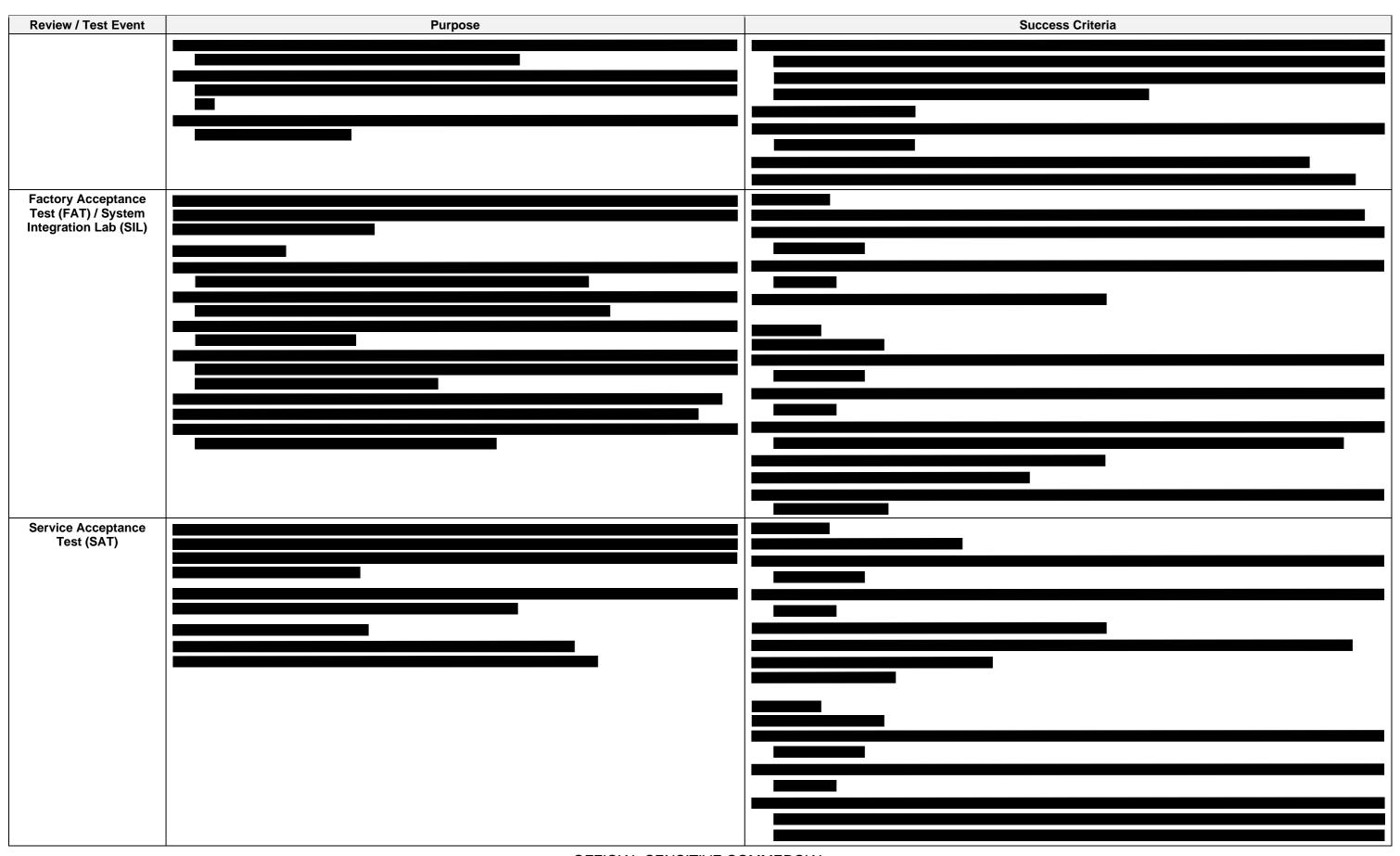
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Review / Test Event	Purpose	Success Criteria
User Acceptance Review (UAR)		
Review (UAR)		

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2. Acronyms

Table 2: List of Acronyms

Acronym	Definition	
AAR	After Action Review	
ALARP	As Low As Reasonably Practicable	
CDR	Critical Design Review	
CM	Capability Milestone	
DID	Data Item Descriptions	
DLoD	Defence Lines of Development	
EMP	Engineering Management Plan	
FAT	Factory Acceptance Test	
GFA	Government Furnished Assets	
HFI	Human Factors Integration	
ICD	Interface Control Definition	
IEC	International Electrotechnical Commission	
IEEE	Institute of Electrical and Electronics Engineers	
ILS	Integrated Logistics Support	
IPR	Intellectual Property Rights	
ISO	International Organization for Standardization	
ITEAP	Integrated Test, Evaluation and Acceptance Plan	
MCAST	Maritime Command and Staff Trainer	
OTS	Off-The-Shelf	
PDR	Preliminary Design Review	
RAIDO	Risks, Assumptions, Issues, Dependencies and Opportunities	
SAT	Service Acceptance Test	
SE	Systems Engineering	
SIL	System Integration Lab	
SFR	System Functional Review	
SoW	Statement of Work	
SQEP	Suitably Qualified and Experienced Persons	
SRD	System Requirements Document	
SRR	System Requirements Review	
TRR	Test/Trials Readiness Review	
UAR	User Acceptance Review	
VVRM	Validation and Verification Requirements Matrix	