



Ministry  
of Defence



**Maritime Command and Staff Trainer (MCAST)**

**Appendix G to SoW: Technical Reviews**

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**Defence Equipment & Support**

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Appendix G to SoW – Technical Reviews

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*Appendix G to SoW – Technical Reviews*

1. MCAST Technical Reviews Framework

- 1.1. IEEE 15288.2<sup>1</sup> 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 2.2.1.1.7 (test run) and SoW 2.2.1.1.33 (After Action Review (AAR)).

Table 1: List of Technical Reviews for the MCAST Contract

Review / Test Event	Purpose	Success Criteria
<b>System Requirements Review (SRR)</b>  IEEE 15288.2 System Requirements Review (SRR) and System Functional Review (SFR)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
<b>Preliminary Design Review (PDR)</b>  IEEE 15288.2 Preliminary Design Review (PDR)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]

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

Review / Test Event	Purpose	Success Criteria
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
Critical Design Review (CDR)  IEEE 15288.2 Critical Design Review (CDR)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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Review / Test Event	Purpose	Success Criteria
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
<b>Test/Trials Readiness Review (TRR)</b>  IEEE 15288.2 Test Readiness Review (TRR)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]

Review / Test Event	Purpose	Success Criteria
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
Factory Acceptance Test (FAT) / System Integration Lab (SIL)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
Service Acceptance Test (SAT)	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
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	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]

Review / Test Event	Purpose	Success Criteria
		<p>1. The system is installed and configured correctly.</p> <p>2. The system is accessible to all users.</p> <p>3. The system is able to process transactions.</p> <p>4. The system is able to generate reports.</p> <p>5. The system is able to handle errors.</p> <p>6. The system is able to be upgraded.</p> <p>7. The system is able to be backed up.</p> <p>8. The system is able to be restored.</p> <p>9. The system is able to be monitored.</p> <p>10. The system is able to be maintained.</p>
User Acceptance Review (UAR)	<p>1. The system is installed and configured correctly.</p> <p>2. The system is accessible to all users.</p> <p>3. The system is able to process transactions.</p> <p>4. The system is able to generate reports.</p> <p>5. The system is able to handle errors.</p> <p>6. The system is able to be upgraded.</p> <p>7. The system is able to be backed up.</p> <p>8. The system is able to be restored.</p> <p>9. The system is able to be monitored.</p> <p>10. The system is able to be maintained.</p>	<p>1. The system is installed and configured correctly.</p> <p>2. The system is accessible to all users.</p> <p>3. The system is able to process transactions.</p> <p>4. The system is able to generate reports.</p> <p>5. The system is able to handle errors.</p> <p>6. The system is able to be upgraded.</p> <p>7. The system is able to be backed up.</p> <p>8. The system is able to be restored.</p> <p>9. The system is able to be monitored.</p> <p>10. The system is able to be maintained.</p>

## 2. Acronyms

**Table 2: List of Acronyms**

<b>Acronym</b>	<b>Definition</b>
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