

Systems Engineering

Verification and Validation Plan Evaluation

	Missing	Poor	Fair	Good	Excellent
Validation & Verification	No V&V tests specified	Very few requirements are tested	Many requirements are not tested	Some requirements are not tested	Tests effectively evaluate whether the system meets all functional requirements both in concept and implementation.
		Some tests require repetition and regression			
Functional Tests	No functional tests specified	Functional testing is minimal	There are some significant holes in the functional tests Some metrics missing	Some minor holes are in the functional test suite	Tests effectively evaluates whether the system has succeeded. Must be quantitative.
Performance Tests	No performance tests specified	Performance test suite is minimal	Performance test suite has some significant omissions	Some minor holes are in the performance test suite	Test suite effectively evaluates the ability of the system to meet its performance requirements including subsystem testing.
		Good but tend to normal conditions			
Failure Analysis	No failure analysis or tests present	Failure analysis is minimal and/or no tests present	There are significant holes in the failure analysis and/or test suite	Failure analysis is missing a small component or some tests are missing	Failure analysis includes a fault table and/or tree that succinctly identifies important failure modes. Tests are present that verify the mitigation method
Level of Detail	There are no specific tests identified	Most tests are missing significant detail required to run the tests	Many tests do not have an appropriate amount of detail	Some test descriptions are either too verbose or do not present enough detail	Tests are expressed succinctly but with enough detail for a 3rd party to perform them
Traceability	No traceability present	Unclear traceability to requirements	Many tests are not associated with requirements	Some tests are not associated with particular requirements	All tests are traced clearly to requirements
Engineering Practices	Document does not contain a revision history or any referencing	Document is either missing a revision history or nothing is referenced.	Document contains a revision history and references but insufficient	Document contains a revision history but references are a little light	Document contains a revision history, and proper references to both external documents and internal sections
Readability/ Organization	Document is a jumble and impossible to follow	Document is legible, but there are many spelling, grammatical or logical errors making it hard to follow.	Organization of document is confusing or prose is too convoluted, making the document difficult to understand	Document is well organized, but there are some areas that are confusing. Also, document could be too long and repetitive.	There is a logical flow to the document and prose is clear and concise.

Failure modes mixed throughout