

System Verification and Validation Plan Checklist

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November 14, 2025

- Follows writing checklist (full checklist provided in a separate document)
 - L^AT_EX points
 - Structure
 - Spelling, grammar, attention to detail
 - Avoid low information content phrases
 - Writing style
- Follows the template, all parts present
 - Table of contents
 - Pages are numbered
 - Revision history included for major revisions
 - Sections from template are all present
 - Values of auxiliary constants are given (constants are used to improve maintainability and to increase understandability)
- Grammar, spelling, presentation
 - No spelling mistakes (use a spell checker!)
 - No grammar mistakes (review, ask someone else to review (at least a few sections))
 - Paragraphs are structured well (clear topic sentence, cohesive)

- Paragraphs are concise (not wordy)
- No Low Information Content (LIC) phrases
- All hyperlinks work
- Every figure has a caption
- Every table has a heading
- Symbolic names are used for quantities, rather than literal values

- LaTeX

- Template comments do not show in the pdf version, either by removing them, or by turning them off.
- References and labels are used so that maintenance is feasible

- Overall qualities of documentation

- Test cases include SPECIFIC input
- Test cases include EXPLICIT output
- Description over specification, when appropriate
- Plans for what to do with description data (performance, usability, etc). This may involve saying what plots will be generated.
- Plans to quantify error for scalar values using relative error
- Plans to quantify error for vector and matrix values using a norm of an error vector (matrix)
- Plans are feasible (can be accomplished with resources available)
- Plans are ambitious enough for an A+ effort
- Survey questions for usability survey are in an Appendix (if appropriate)
- Plans for task based inspection, if appropriate
- Very careful use of random testing
- Specific programming language is listed
- Specific linter tool is listed (if appropriate)
- Specific coding standard is given
- Specific unit testing framework is given

- Investigation of code coverage measuring tools
- Specific plans for Continuous Integration (CI), or an explanation that CI is not being done
- Specific performance measuring tools listed (like Valgrind), if appropriate
- Traceability between test cases and requirements is summarized (likely in a table)