

Form SPD-8 COQUALMO Details Summaries

1. Project Title: 2. Project ID No. 3. Rev No.
4. Date Prepared: 5. Originator:

6. Defect Introduction by Stage and Artifact

Number of Defects Introduced

	Inception (WF P&R)	Elaboration (WF PD)	Construction (WF P+I+T)	Transition	Don't Know
No. of Requirements Defects					
No. of Design Defects					
No. of Code Defects					

TOTAL

7. Defect Removal by Stage and Artifact

Number of Defects Removed

	Inception (WF P&R)	Elaboration (WF PD)	Construction (WF P+I+T)	Transition	Don't Know
No. of Requirements Defects					
No. of Design Defects					
No. of Code Defects					

TOTAL

8. Defect Identification by Severity and Artifact

Number of Defects Found

	Critical	High	Medium	Low	None	Don't Know
No. of Requirements Defects						
No. of Design Defects						
No. of Code Defects						

TOTAL

9. Number of Open Trouble Reports (Liens) At Product Delivery:

Figure C-8: Form SPD-8 COQUALMO Details Summaries

Form SPD-8 COQUALMO Details Summaries (cont.)

10. Defect Removal Capability Rating Scales

Automated Analysis

	Very Low	Low	Nominal	High	Very High	Extra High	Don't Know
Rating Scale	Simple compiler syntax checking	Basic compiler capabilities for static module-level code analysis, syntax, type-checking.	All of the above, plus some compiler extensions for static module and inter-module level code analysis, syntax, type-checking. Basic requirements and design consistency, traceability checking.	All of the above, plus intermediate-level module and inter-module code syntax and semantic analysis. Simple requirements/design view consistency checking.	All of the above, plus more elaborate requirements/design view consistency checking. Basic distributed-processing and temporal analysis, model checking, symbolic execution.	All of the above, plus formalized* specification and verification. Advanced distributed processing and temporal analysis, model checking, symbolic execution. *Consistency-checkable pre-conditions and post-conditions, but not mathematical theorems.	
Your Rating							

Peer Reviews

	Very Low	Low	Nominal	High	Very High	Extra High	Don't Know
Rating Scale	No peer review	Ad-hoc informal walkthroughs Minimal preparation, no follow-up.	Well-defined sequence of preparation, review, minimal follow-up. Informal review roles and procedures.	Formal review roles with all participants well-trained and procedures applied to all products using basic checklists*, follow up.	Formal review roles with all participants well-trained and procedures applied to all product artifacts & changes (formal change control boards). Basic review checklists*, root cause analysis. Formal follow-up. Use of historical data on inspection rate, preparation rate, fault density.	Formal review roles and procedures for fixes, change control. Extensive review checklists*, root cause analysis. Continuous review process improvement. User/Customer involvement, Statistical Process Control.	
Your Rating							

Form SPD-8 COQUALMO Details Summaries (cont.)

* Checklists are lists of things to look for or to check against (e.g. Fagan's exit criteria)

Figure C-8: Form SPD-8 COQUALMO Details Summaries (cont'd)

Form SPD-8 COQUALMO Details Summaries (cont.)

Execution Testing and Tools

	VL	Low	Nominal	High	VH	EH	Don't Know
Rating Scale	No testing	Ad-hoc testing and debugging. Basic text-based debugger.	Basic unit test, integration test, system test process. Basic test data management, problem tracking support. Test criteria based on checklists.	Well-defined test sequence tailored to organization (acceptance, alpha, beta, flight, etc.) test. Basic test coverage tools, test support system. Basic test process management.	More advanced test tools, test data preparation, basic test oracle support, distributed monitoring and analysis, assertion checking. Metrics-based test process management.	Highly advanced tools for test oracles, distributed monitoring and analysis, assertion checking. Integration of automated analysis and test tools. Model-based test process management.	
Your Rating							

Figure C-8: Form SPD-8 COQUALMO Details Summaries (cont'd)