Measurement Information Specification

Test Procedure Status Project Level Only Organization 3 Version 1.0

Information Need Description	
Information	• How is testing proceeding?
Need	• Have all test procedures been run as planned?
Information	Schedule and Progress
Category	

Measurable Concept	
Measurable	Work Unit Progress
Concept	

Entities and Attributes	
Relevant Entities	Testing
Attributes	Procedures

Base Measure Specification	
Base Measures	 Planned number of test procedures Planned number of test procedures tested (attempted) Actual number of test procedures successfully tested
Measurement Methods	 Prior to test, estimated based on engineering judgment. Updated as the number of test procedures are recorded in the approved test procedures document. Sum of the number of test procedures conducted IAW approved test procedures, documented in test logs. Sum of the number of test procedures successfully conducted IAW approved test procedures, validated against the defined criteria, and documented in the test logs.
Type of Method	 Subjective (eng. judgment), Objective (based on test procedures) Objective Objective
Scale	Integers from zero to infinity
Type of Scale	Ratio
Unit of	Test Procedures
Measurement	

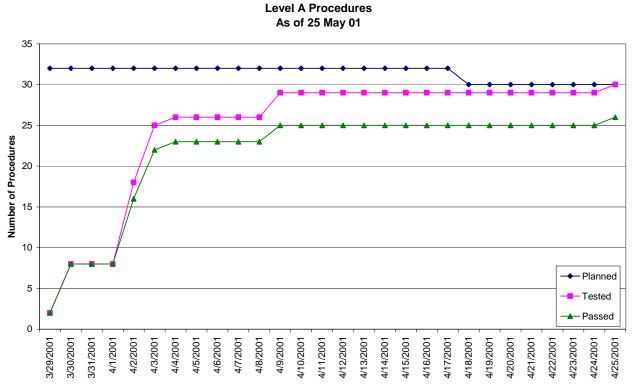
Derived Measure Specification	
Derived	Test Variance
Measure	
Measurement	(planned number of test procedures tested - actual number of test procedures
Function	successfully tested) / planned number of procedures tested

Indicator Specification	
Indicator Description and Sample	Test Progress
Analysis Model	The Test Status measure may be used to evaluate test progress. It helps assess product quality based on the proportion of attempted test cases that have been successfully executed and the amount of testing that has been performed. Graph plots the planned number of test procedures over time, along with the actual number of test procedures conducted, and the number of test procedures that passed. Greater than 20% variance, adverse trend
Decision Criteria Indicator Interpretation	 Greater than 20% variance, adverse trend The top line (blue) represents the planned number of test procedures. The middle line (pink) represents the actual number of test procedures that were conducted. The bottom line (green) represents the number of actual test procedures that passed. Progress proceeded quickly up until 3 Apr 03 when a failure occurred. PCRs were written, and testing was halted while the source of the problem was investigated. Testing resumed when solutions were determined. The number of test procedures was reduced when it was determined that the requirement was unclear. The requirement was investigated, and the test procedures were changed accordingly upon clarification. An approximate two-week delay was encountered while awaiting resolution of the PCRs and subsequent rewrite of the test procedures. Regression tests were conducted to verify PCR fixes.

Data Collection Procedure (For Each Base Measure)	
Frequency of Data Collection	 Per revision to the Test Procedures Monthly Monthly
Responsible Individual	Software Test Team Lead
Phase or Activity in which Collected	Integration and Test Phase
Tools Used in Data Collection	 Test Procedures Test Logs Test Logs
Verification and Validation	Check against test logs
Repository for Collected Data	Test SpreadsheetPALPSM Insight

Data Analysis Procedure (For Each Indicator)	
Frequency of	Monthly
Data Reporting	
Responsible	Project Measurement Analyst
Individual	
Phase or Activity	Integration and Test Phase
in which	
Analyzed	
Source of Data	PSM Insight
for Analysis	
Tools Used in	PSM Insight
Analysis	
Review, Report,	Project Leads and
or User	BAMs

Additional Information	
Additional Analysis	• There should be a mapping between defined test cases and requirements to analyze which functions are passing test.
Guidance	• Allocated requirements should be testable and mapped to test sequences.
Implementation	
Considerations	



Schedule