Measurement Information Specification

Effort

Organization 6

Version 1.0

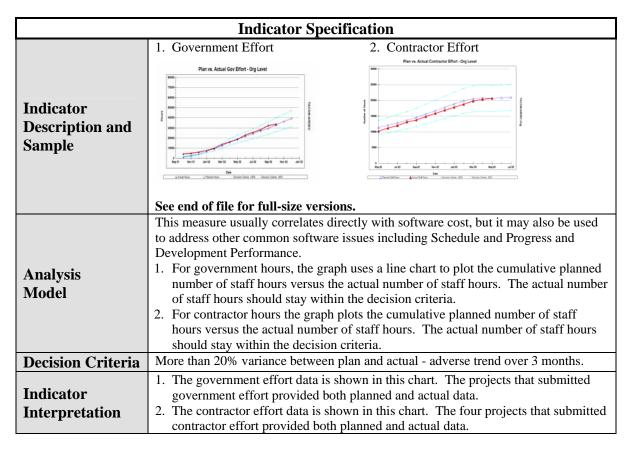
Information Need Description	
Information	Is effort being expended according to plan for both government and contractor
Need	personnel?
Information	Resources and Cost
Category	

Measurable Concept	
Measurable	Personnel
Concept	

Entities and Attributes	
Relevant Entities	Effort
Attributes	Hours

Base Measure Specification	
Base Measures	 Planned number of staff hours (government) Actual number of staff hours (government) Planned number of staff hours (contractor) Actual number of staff hours (contractor)
Measurement Methods	 Based on engineering judgment and documented in project plan. Total of all government staff hours including development effort, all services (e.g. CM, QA), and management. One staff month is equivalent to 160 staff hours. Based on engineering judgment and documented in task statement (purchase order). Total of all contractor staff hours including development effort, all services (e.g. CM, QA), and management.
Type of Method	 Subjective Objective Subjective Objective
Scale	Integers from zero to infinite
Type of Scale	Ratio
Unit of	Hours
Measurement	

Derived Measure Specification	
Derived	1. Effort Variance (government)
Measure	2. Effort Variance (contractor)
	1. ((actual number of staff hours (govt.)) - planned number of staff hours (govt.)) /
Measurement	planned number of staff hours (govt.)
Function	2. ((actual number of staff hours (contractor) - planned number of staff hours
	(contractor)) / planned number of staff hours (contractor)

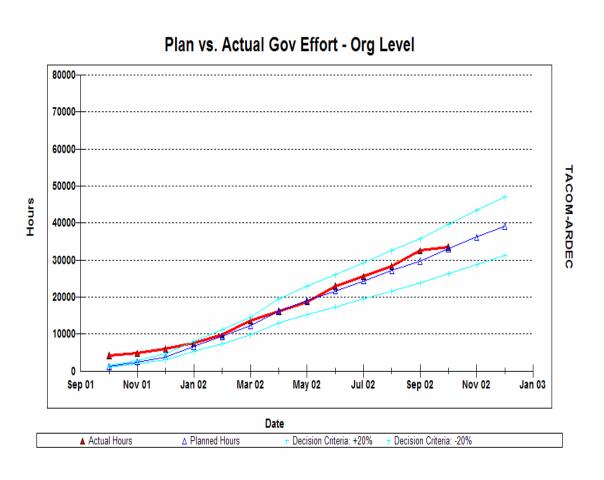


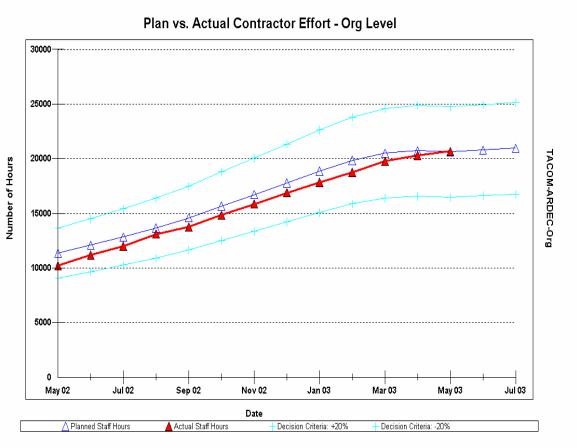
D	Data Collection Procedure (For Each Base Measure)	
Frequency of Data Collection	 Per update to tasking Monthly, based on bi-weekly timecard submissions Per update to purchase order Monthly 	
Responsible Individual	Project Measurement Analyst collects data and reports it to org measurement.	
Phase or Activity	Org. Measurement Analyst is responsible for organization analysis. All	
in which Collected		
Tools Used in Data Collection	 Approved project plan Government labor system Signed Purchase Order Contractor's cost accounting system reported in contractor progress report 	
Verification and Validation	Check for reasonableness (e.g. data is in range, there are no negative numbers, etc.)	
Repository for Collected Data	 Measurement template (Org-Measure-Contractor Cost and Effort Template(V 5-17-02).xls and Org-Measurement-Gov-Cost-Effort Ver2 Jun03.xls)(project-level) PAL PSM Insight 	

Data Analysis Procedure (For Each Indicator)	
Frequency of	Monthly
Data Reporting	
Responsible	Project Measurement Analyst (project level) and
Individual	Org. Measurement Analyst (org. level)

Phase or Activity	All
in which	
Analyzed	
Source of Data	Measurement templates and PSM Insight
for Analysis	
Tools Used in	Measurement templates and PSM Insight
Analysis	
Review, Report,	Project Leaders
or User	BAMs
or User	Senior Management

Additional Information	
Additional Analysis	If contractor labor hours are not explicitly provided, data may be approximated from cost data.
Guidance	This measure may be categorized by activity as well as by product.
Implementation	The rate of changes in effort data should be monitored, since large numbers of people usually cannot be effectively added within a short period.
Considerations	• Large overruns during integration and test may indicate quality problems with the code and significant defects that may delay completion.





Effort, Org 6, Molly Campbell, Page 4 of 4, 01/09/04