Measurement Information Specification Process Audit Findings Version 2.1

Information Need Description				
Information Nood How well is the project following the organization's defined process and how consistently does the project implement the defined process?				
Information	Process Performance			
Category				

Measurable Concept		
Measurable	Process Compliance	
Concept		

Entities and Attributes			
Relevant Entities	Process audits performed to verify compliance		
	• Quality assurance records of completed audits vs planned audits		
Attributes	Audits performed based on process type		
	Status of completed audits		

Base Measure Specification				
Base Measures	 Number of process audits performed per period based on process type (audits performed) Process audits that were determined compliant (audits compliant) 			
Measurement Methods	 Count the number of total audit performed based on process type Count the number of audits that were determined to be compliant 			
Type of Method	Objective			
Scale	Integers from zero to infinity			
Type of Scale	Ratio			
Unit of	Process audits			
Measurement				

Derived Measure Specification			
Derived	Percent of process audits compliant (percent compliant)		
Measure			
Measurement	Divide audits compliant by process audits and multiply by 100.		
Function			

Indicator Specification										
	Process Audit Findings: Graph the two base measures (audits performed and audits compliant) over time. Also, include a data table with the derived measure (percent complete as of a specific month).									
		Process Audits Findings								
	α 70							-	-	
Indicator	0 40 to 1					×				
Sample	ag 30 mn N 20	· · · · ·		<u></u>	·					
	Jan	Feb Mar	Apr May	Jun	Jul	Aug	Sep Oc	Nov	Dec	
	Performed (Cum) 4	12 15	20 23 18 23	30	37	40	46 54	56	59	
	%Compliant as of 100.0	91.7 93.3	90.0 92.0	93.8	90.2	89.1	88.5 90.0	90.3	90.8	
Analysis Model	Ideal case is both lines sho compliant as of, should sta	ould track ay close t	close togo 100%.	gethei	r. Th	e deri	ived m	easur	e, pei	rcent
Decision Criteria	Process audit progress results of 90% or less or a percentage that shows a decline in two consecutive periods requires further investigation for root cause. An action plan may be required to correct deficiency.									
Indicator Interpretation	The indicator chart for Pro any other group or individ January through July. Star <90% for the year-to-date minimum threshold of 90% to improve process audit of	ocess Auc uals that ting in A audits co %, should compliance	it Findin process a ugust, the mpleted. result in re.	gs tel udits ere we This inves	ls the were ere ty num stigat	e SEF e com vo co ber, v ion a	PG, qu npliant onsecu which and cor	ality 1 (>90 ive m is und rectiv	nana %) fro onthe ler the re act	ger, or om s of e ion plan

Data Collection Procedure (for each Base Measure)				
Frequency of Data Collection	 Monthly, identified in the schedule of performed audits. Monthly, but if negative trends continue for two or more months, frequency of audits could increase until compliance percentage is equal to or greater than minimal threshold of 90%. 			
Responsible Individual	Quality assurance			
Phase or Activity in which Collected	All phases			
Source of Data for Analysis	 MS Project (planning data) MS Access for collection, storage, and presentation of process audits (actual data) 			
Tools Used in Data Collection	 MS Project for planning audits MS Access 			

Verification and Validation	 Review quality assurance monthly schedule of activities for performed audits. Review Software Quality Program Plan (or equivalent) for performed process audits. Review audit results for each month, and conduct analysis of any non-compliant audits.
Repository for Collected Data	 PSM Insight MS Access database for storage of data

Data Analysis Procedure (for each Indicator)			
Frequency of	Monthly		
Data Reporting			
Responsible	Quality assurance		
Individual			
Phase or Activity	All phases		
in which			
Analyzed			
Source of Data	PSM Insight		
for Analysis			
Tools Used in	Trend lines are used to determine negative trends		
Analysis			
Review, Report.	1. Reported at biweekly software status meetings to project members		
or User	2. Reported at SEPG monthly meetings to process improvement staff		
01 0501	3. Reported at monthly quality assurance status meetings to senior leadership		

Additional Information				
	When negative trends occur, analyze the specific process. Inform the SEPG (or equivalent group) of the process deficiency. Generate a Corrective Action Report. The report should include a short- and long-term corrective action plan to prevent reoccurrence. Ensure all non-compliant audits are tracked to closure within the agreed timeframe as identified in the Corrective Action Report. It may be necessary to determine how this deficiency will impact cost, schedule, and technical performance.			
Additional Analysis Guidance	If the deficient area is considered to be high risk, any audits scheduled that focus on this area may need to be updated. Follow-up audits may be necessary to ensure corrective action plans have been developed and are being implemented to addresses the deficiency.			
	If there are any reoccurring trends in specific process areas, it may be necessary to perform a review of the organization's policy and training program for these respective areas. Identify any adjustments to the appropriate group as necessary.			
	If follow-up audits continue to show little or no improvement, it may be necessary to elevate to senior management for resolution.			

	Process audits are normally performed during the entire project lifecycle, because								
	these measures provide an indication of the project's compliance to the								
	organization's defined process. Process audits should be performed based on the								
	development lifecycle, and this plan should be annotated in some type of scheduling								
	tool. The audit schedule could be a subset of the Quality Program Plan (or								
	equivalent). The quality organization itself should be periodically audited to ensure								
	compliance with the schedule. Any deviation from the quality organization's plan								
	should be annotated appropriately.								
	Reporting process audit results should be monthly, at a minimum, unless an								
	excessive number of non-compliant audits are encountered during the reporting								
Implementation	period. An excessive number of non-compliant audits could cause the quality								
Considerations	organization to revise the schedule to focus on non-compliant area(s) and to increase								
Consider ations	frequency								
	Inequency.								
	Process audit results and corrective actions should be presented to the organizations								
	effected. Additionally, senior management should be presented with the complete								
	nicture of all audits. The primary reason for presenting this information to senior								
	management is to provide awareness of an insight into systems and software								
	activities at an appropriate level of abstraction and in a timely mapper								
	activities at an appropriate level of abstraction and in a timery manner.								
	Audit results could be portraved as partially compliant, where specific subtasks								
	related to a specific task were satisfactory. This type of reporting allows credit for								
	satisfying specific areas and identifying other areas that require further investigation								
	substying specific areas and identifying other areas that require further investigation.								