Process Control System

Process Name: Value Engineering Program	**Product/Service:** Perform value engineering analysis on selected projects and document findings.	**Primary Customers:** Management **Regulators:** FHWA	**Customer's Valid Requirement(s):** Effective use of resources to produce a quality transportation system.	**Regulator's Valid Requirement(s):** Federal-aid system projects with total costs of $25 million or more ($20 million or more for bridges) have a VE study performed during project development.

Input(s): Projects
Supplier(s): Work Program

Flow Chart

Step / Time \ Dept / Person	DISTRICT VALUE ENGINEER	VALUE ENGINEERING TEAM	STATE VALUE ENGINEER
PROJECT SELECTION	Project Selection Process		
	P1 P2 P3		
TEAM SELECTION	Team Selection Process		
STUDY		Conduct Value Engineering Study	
RESOLUTION	Recommendation Resolution Process ← P4		
REPORTING			Reporting/Tracking Process

Process and Quality Measures (QA/QC)

Checking / Measurement Monitoring

Miscellaneous Information

Process Measures And Quality Measures	Control Limits / Specs / Targets	Checking Item / What is to be checked?	Timeframe (Frequency) / When to check?	Respon-sibility / Who will check?	QAR / Date of Last Review
P1 % scheduled studies completed	75%	VER & Work Plan	Quarterly	SVE	D1: 01/2009 C
P2 # projects > $20 million never studied	0	Work Program	Annual	SVE	
P3 % projects studied by phase	75%	VER	Quarterly	SVE	D2: 01/2009 C
P4 # of pending rec. per time period		VER	Quarterly	SVE	
		VER	Quarterly	SVE	D3: 01/2009 C
Q1 $$$ Saved per time period		VER	Quarterly	SVE	
Q2 Value Added $$$ per time period		VER	Quarterly	SVE	D4: 01/2009 C
Q3 Adoption Rate	40%-60%	VER	Quarterly	SVE	
Q4 Percent Saved	5%	VER	Quarterly	SVE	D5: 01/2009 C
Q5 Return on Investment	$130 to $1	VER	Annual	SVE	
Q6 % Customer Satisfaction		Management Survey	Annual	SVE	D6: 01/2009 C
					D7: 01/2009 C
					TPK: 01/2009 C

- Abbreviations
- Procedure Reference
- Notes, etc.

Federal Regulation 23 CFR 627

VE Procedure 625-030-002

AASHTO Guidelines for VE

NCHRP Synthesis 352 – Value Engineering Applications in Transportation

CODES:

C - Compliance
NC- Noncompliant
BP- Best Practices

Approved: _____ **Date:** _____ **Process Owner:** State Value Engineer **Rev #:** 1.5 **Rev Date:** 2/2009