Value Engineering Annual Report FY 2017/2018



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Executive Summary

Value Engineering During Project Development

The districts conducted 17 studies or 74% of the original number of studies scheduled for fiscal year 2017/2018. The original work plan had 23 studies scheduled for the year and the target was to complete 75% or 17 of the planned studies. Due to the dynamics of the department's work program, 8 of the 17 scheduled studies (47%) were either dropped from the work plan altogether or rescheduled for the 2017/2018 fiscal year, while 4 of the conducted studies were added to the original work plan.

During this same period, the districts acted on 191 recommendations, approving 101 for a 53% adoption rate. Sixty-six of the approved recommendations resulted in \$213.8 million in project cost avoidance/savings. The remaining 35 approved recommendations were value added recommendations that increased project performance, while adding \$39.8 million to the project cost. Therefore, the total value of the approved recommendations, including the value added recommendations, produced **\$174.1 million in project cost avoidance/savings**.

The approved recommendations resulted in a 5.46% project saved, 5.74% program saved and a Return on Investment (ROI) of \$153.8 to \$1. The percent project saved is calculated by dividing the value of all approved recommendations by the total costs of the projects studied, while the percent program saved is calculated by dividing the value of all approved recommendations by the average project cost of three fiscal year lettings. The ROI is calculated by dividing the value of all approved recommendations by the cost of administering the program.

There were 66 pending recommendations totaling \$861.4 million in potential cost avoidance/ savings at the end of the 2017/2018 fiscal year. This is a 16% decrease in the total number of pending recommendations and a 5.9% decrease in the amount of pending dollars from the 4th quarter of last year. Fifty-eight of the 66 recommendations have been pending for more than 12 months, which is 88% of the total number of pending recommendations. Since the VE Study is a 'snapshot' of the project at some point in time of project development and projects are continuously moving forward in development, this is a concern. The longer recommendations are unresolved and in a pending status the less likely that they will be adopted because the development of the project has advanced.

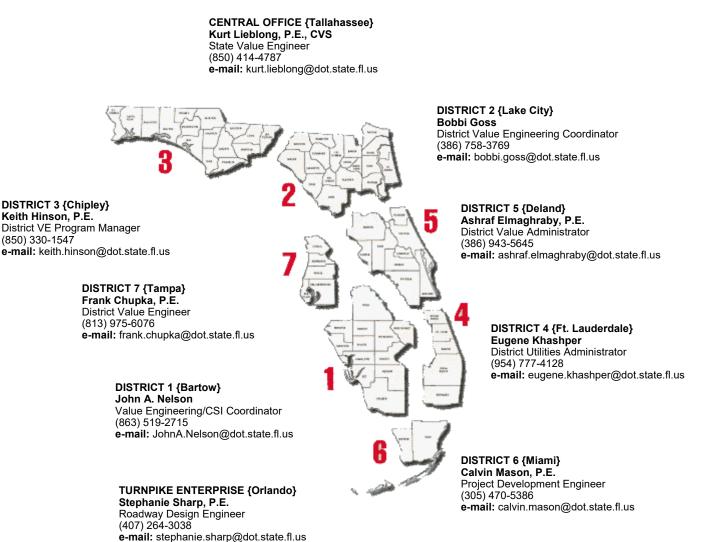
Cost Savings Initiatives During Construction

Eighteen Cost Savings Initiative (CSI)'s) Proposals were submitted during fiscal year 2017/2018. During this same period, the districts approved 21 proposals totaling more than \$8.49 million in savings. The approved CSI proposals resulted in a 0.51% project saved and a 0.23% program saved. There are currently 6 pending CSI's totaling \$1.46 million in potential project savings.

Program Organization

Mission: Administer the Florida Department of Transportation Value Engineering and Cost Savings Initiative Programs, satisfying the needs of the stakeholders.

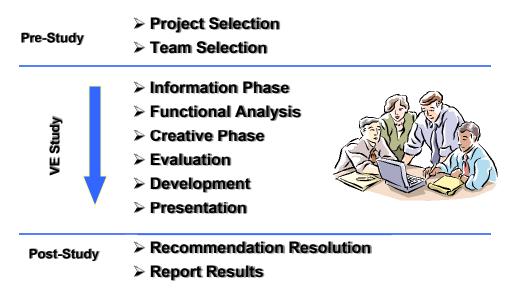
Vision: Value Engineering . . . providing an effective support function which maximizes project and process value for the transportation systems in the State of Florida.



Value Engineering Overview

What is Value Engineering

Value Engineering (VE) is the formal application of a proven and effective tool used to improve the value of a project, product or service. VE strives to optimize the use of allocated funds without reducing the quality or performance. A multi-disciplined team is assembled and the six phases of the VE Job Plan (Information, Functional Analysis, Creative, Evaluation, Development and Presentation) are used to guide the team through the process.



VE Job Plan

The administration of the VE Program can be broken down into the following key processes.

Pre-Study	Study	Post Study
Project Selection	Conduct VE Study	Recommendation Resolution
Team Selection		Report Results

Value Engineering Overview

Performance Measures

The VE Program and the Cost Savings Initiative (CSI) Program are managed through the use of the Process Control Systems found in Appendix B. Each process has a set of Quality and In-Process measures that are used to evaluate the performance of the program. The Quality Measures for the overall VE program are defined below.

VE Pro	ogram
Quality Measure	Calculation
Q1: Approved Cost Avoidance Recommendations	Sum of all approved cost avoidance/ savings recommendations
Q2: Approved Value Added Recommendations	Sum of all approved value added recommendations
Q3: Adoption Rate	<pre># of Approved Recommendations # of Proposed Recommendations</pre>
Q4: Percent Project Saved	Value of Approved Recommendations Total Project Costs
Q5: Percent Program Saved	Value of Approved Recommendations 3 Year Monthly Average Lettings
Q6: Return on Investment (only reported annually)	Value of Approved Recommendations Total cost of VE Program

Cost Savings Initiative Overview

What is Cost Savings Initiative

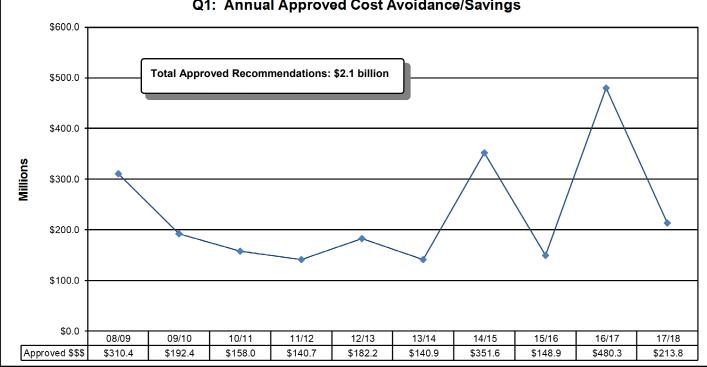
The Cost Savings Initiative Program offers an opportunity for the contractor to propose cost savings ideas prior to work beginning and as work progresses on a project. Contractors can demonstrate their innovation and ingenuity by proposing ideas that contribute to the cost effectiveness of the project. The contractors are then rewarded for this ingenuity and innovation by sharing in any project savings generated from an approved Cost Savings Initiative (CSI) proposal.

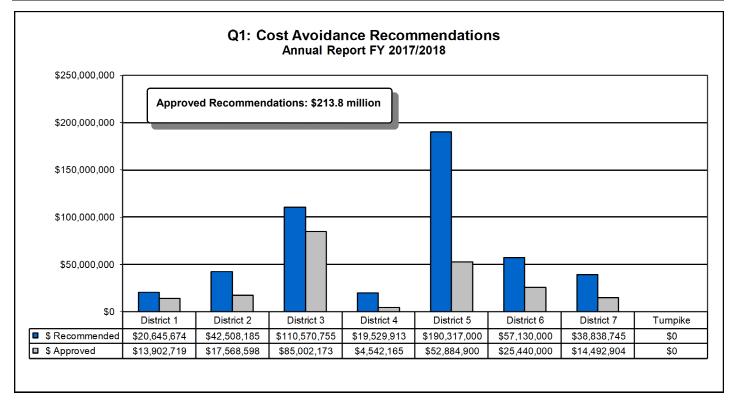
Performance Measures

CSI	Program
Q1: Number of CSI's	Sum of all CSI's
Q2: Approved Cost Savings	Sum of all approved CSI savings
Q3: Percent Project Saved	<u>Value of Approved Proposals</u> Total Project Costs
Q4: Percent Program Saved	Value of Approved Recommendations 3 Year Monthly Average Lettings

Fiscal Year 2017/2018 Value Engineering Performance Measures

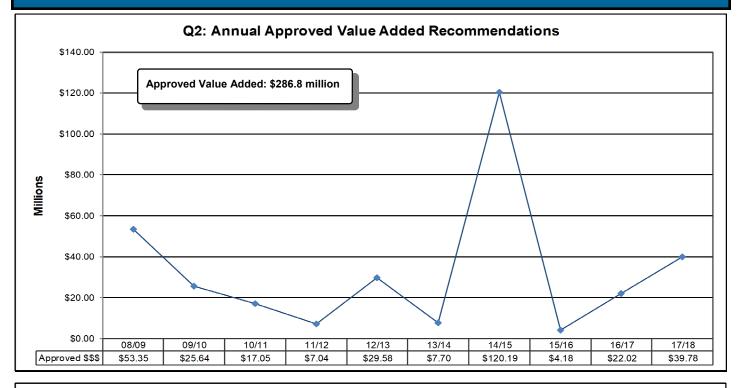
Adopted Recommendations

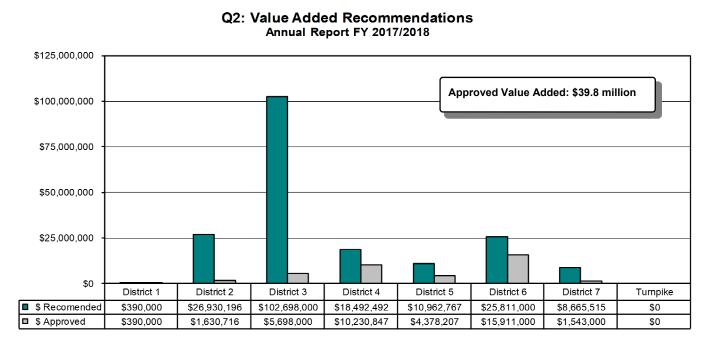




Q1: Annual Approved Cost Avoidance/Savings

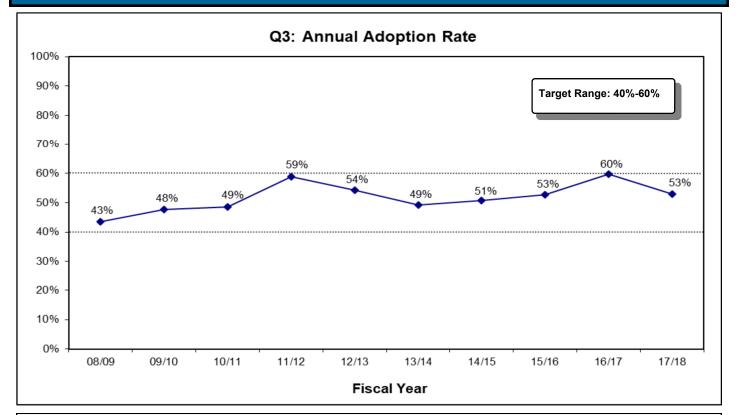
Adopted Recommendations

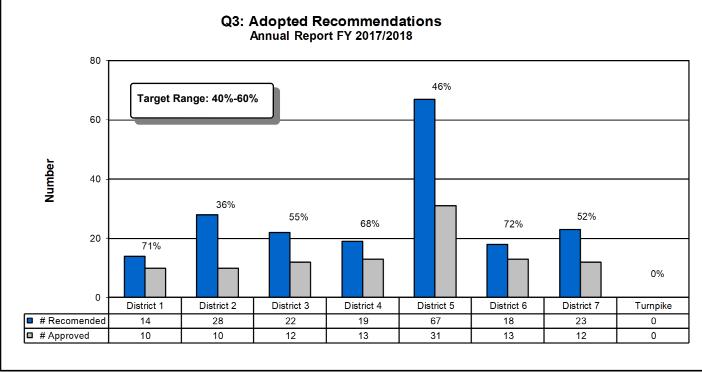




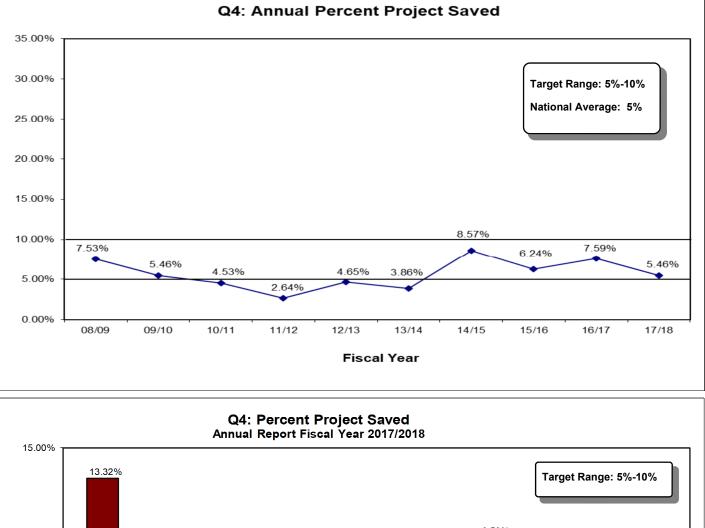
* A Value Added Recommendation significantly increases the performance of a function while also increasing the cost.

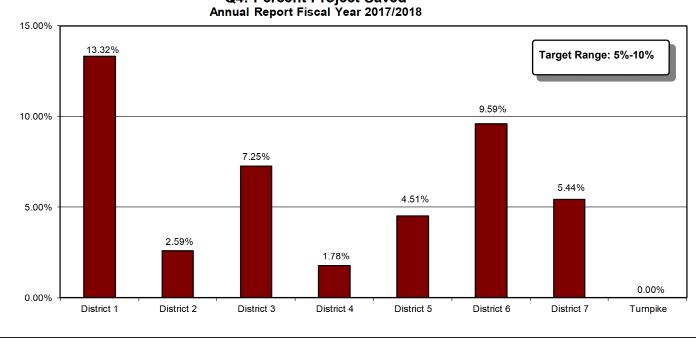
Adoption Rates





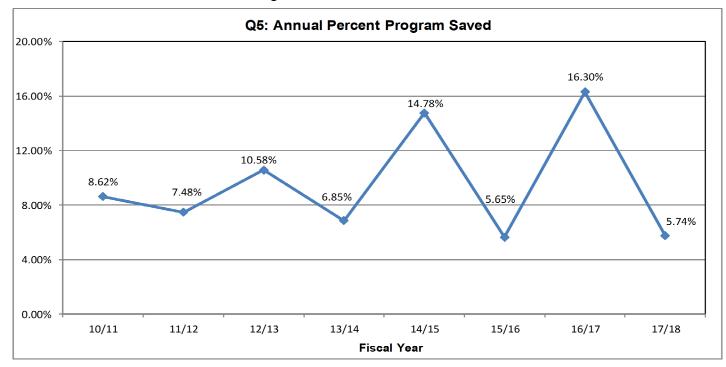
Percent Project Saved

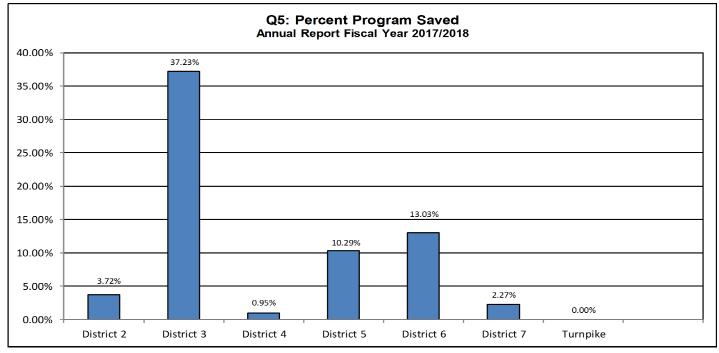




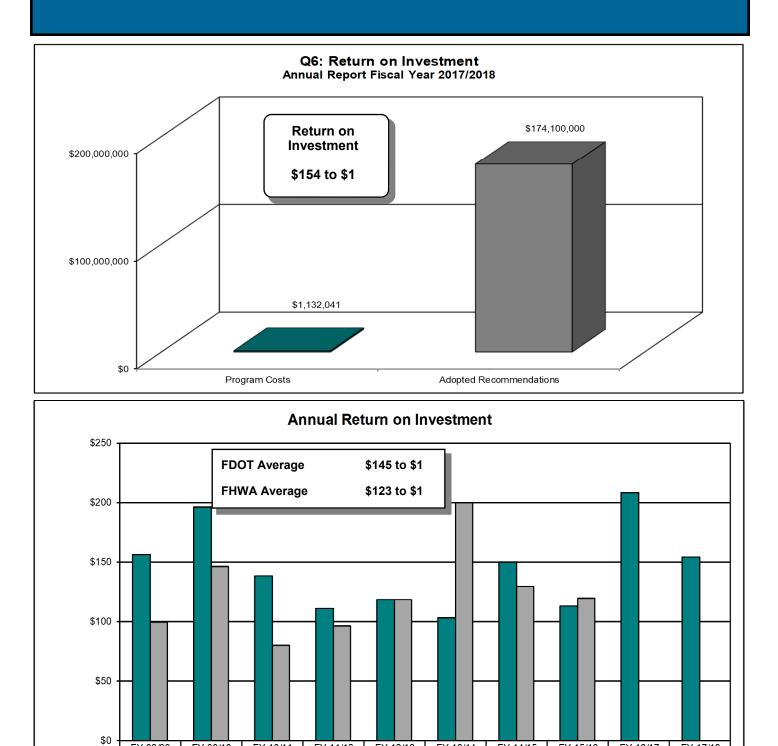
Percent Program Saved

The intent of the Percent Program Saved measure is to compare the cost avoidance/savings to the overall work program. The measure is calculated by dividing the three year average monthly lettings into the overall cost avoidance/savings.





Return on Investment



* FHWA data for fiscal year 2016/2017 and 2017/2018 was not available at time of publication.

FY 11/12

\$111

\$96

FY 08/09

\$156

\$99

FDOT

FHWA Avg.

FY 09/10

\$196

\$146

FY 10/11

\$138

\$80

FY 12/13

\$118

\$118

FY 13/14

\$103

\$200

FY 14/15

\$150

\$129

FY 15/16

\$113

\$119

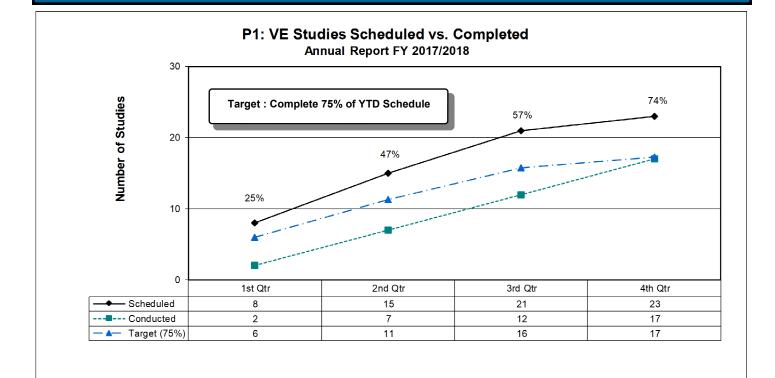
FY 16/17

\$208

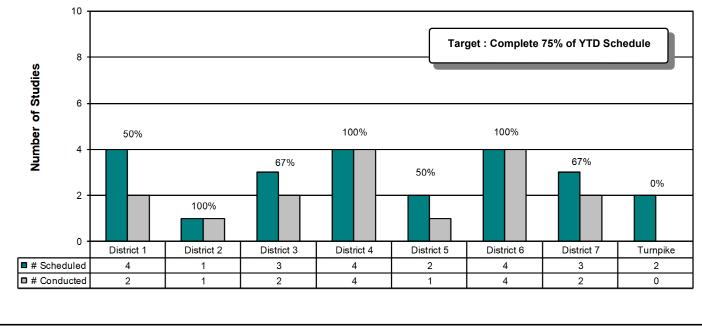
FY 17/18

\$154

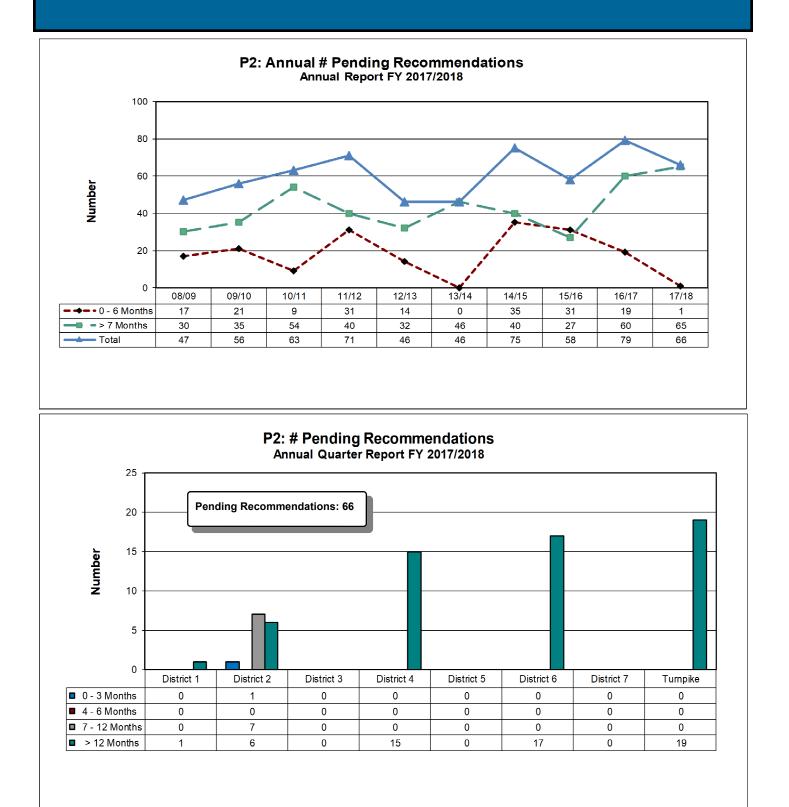
Work Plan Completion



P1: VE Studies Scheduled vs Completed Annual Report FY 2017/2018

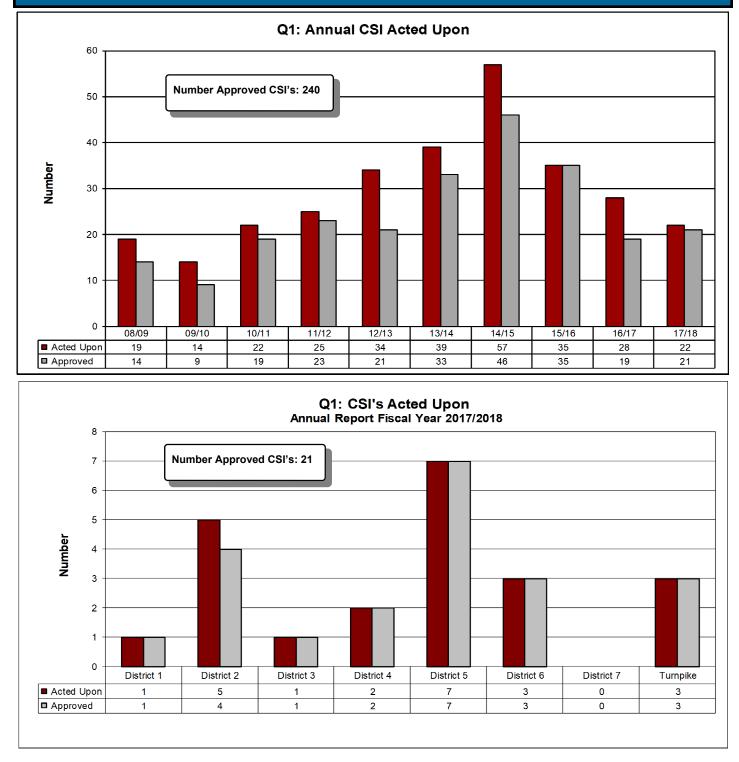


Pending Recommendations



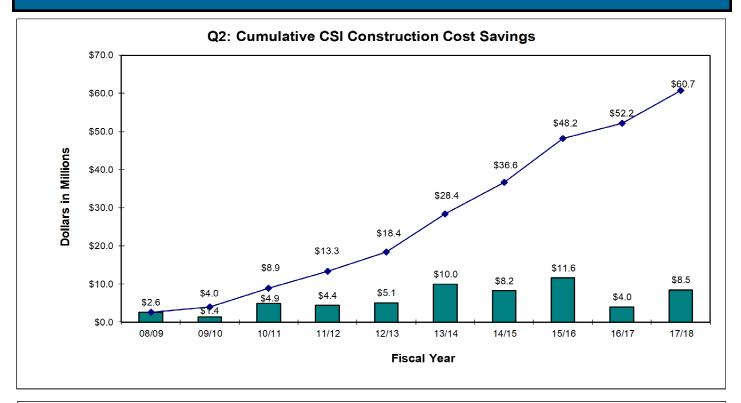
Fiscal Year 2017/2018 Cost Savings Initiative Performance Measures

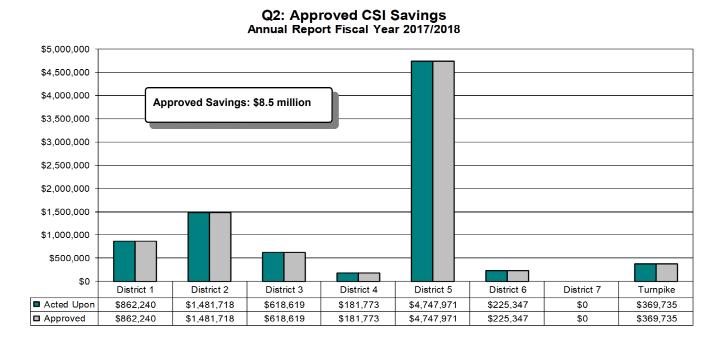
CSI Summary



* Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

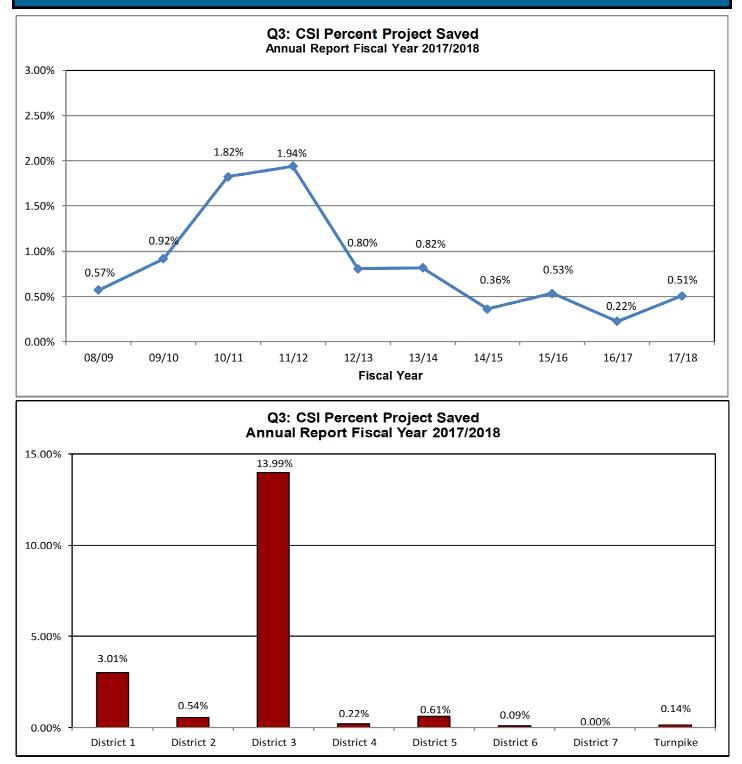
CSI Approved Savings





 Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

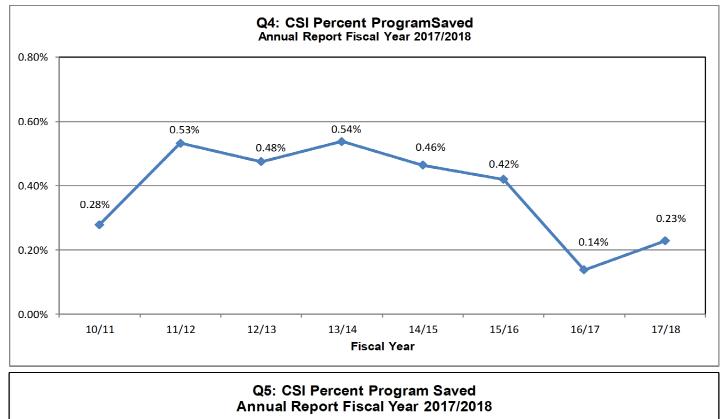
CSI Percent Project Saved

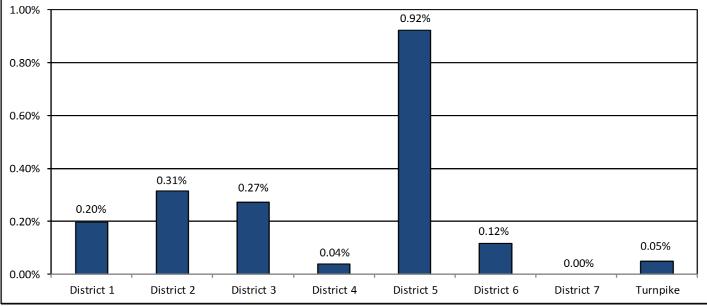


 Prior to fiscal year 2010/2011, Cost savings Initiatives (CSI) were formerly referred to as Value Engineering Change Proposals (VECP's).

CSI Percent Program Saved

The Percent Program Saved is a new measure. The intent is to compare the cost avoidance/ savings to the overall work program. The measure is calculated by dividing the three year average monthly lettings into the overall cost avoidance/savings.





Appendix Process Control Systems

		Proc	Process Control System	_ ج						
Process Name: Va	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 Re use of resources to pr transportation system	 Valid Require Inces to produce In system. 	Customer's Valid Requirement(s): Effective use of resources to produce a quality transportation system.		r's Valid Requi ints of 23 CFR ce with 23 CFR	irement(s): Proje 627 have a VE Ar 627.	Regulator's Valid Requirement(s): Projects that meet the requirements of 23 CFR 627 have a VE Analysis conducted in accordance with 23 CFR 627.
Input(s): Projects Supplier(s): Work Program	Program	Flow Chart		Process and Quality Measures (QA/QC)	d Quality (QA/QC)	Check	Checking / Measurement Monitoring	ement Mon	itoring	Miscellaneous Information
Dept / Person				Process	Control	Checking Item	Timeframe (Frequency)	Respon- sibility	QAR	 Abbreviations Procedure
Step / Time	UNITION VALUE ENGINEER	VALUE ENGINEERING IEAM		Quality Measures	And Specs / Targets	What is to be checked?	When to check?	Who will check?	Date of Last Review	Reference - Notes, etc.
				P1 % scheduled studies completed	75%	VER & Work Plan	Monthly	SVE	D1: 1/2009 C	Federal Regulation 23 CFR 627
PROJECT SELECTION	Project Selection Process			P2 # of pending rec. per time perio		VER	Monthly	SVE		VE Procedure 625-030-002
				3\$\$ Saved per time period		VER	Monthly	SVE	D2: 11/2015 C	AASHTO Guidelines for VE
TEAM	Team Selection Process			Value A dded (02) \$55 per time period		VER	Monthly	SVE	D3: 1/2009 C	NCHRP Synthesis 352 – Value Engineering Applications in Transportation
				a3 Adoption Rate	40%-60%	VER	Monthly	SVE		
				Q4 Project Saved	5%	VER	Monthly	SVE	D4:112015 C	
STUDY		Conduct Value Engineering Study		Percent Q5 Program Saved	2%	VER	Monthly	SVE	D5: 1/2009 C	
				Q6 Retun on Investment	\$130 to \$1	VER	Annual	SVE		
									D6: 12/2015 C	
RESOLUTION	Recommendation Resolution Process	(2)							D7:1/2009 C	
									TPK: 1/2016 C	
REPORTING			Reporting/Tracking Process						CODES:	
									C- Compliance NC – Noncompliant BP Best Practice	nt
Approved:		Date:	Process Owner: Stat	<u>State Value Engineer</u>	ineer		Rev #:	1.6	Rev Date:	3/2016

			Process Control System	E						
Process Name	Process Name: Value Engineering Project Selection	Product/Service: Develop a Value Engineering Work Plan by July 1 of each fiscal year.	Primary Customers: District Management, State Value Engineer. Partners: FHWA	Valid Requirement(s): All projects with the most potential for improvement have a VE Analysis.	ment(s): All p provement ha	rojects with the ave a VE Analy		Regulator's Valid Requir- the NHS system with estim million have a VE analysis	Requirement(s) h estimated tota nalysis	Regulator's Valid Requirement(s): All projects on the NHS system with estimated total costs > \$25 million have a VE analysis
Input(s): Projects Supplier(s): Work Program	s TK Program	Flow Chart		Process and Quality Indicators	d Quality itors	Che	Checking / Indicator Monitoring	ator Monito	ring	Miscellaneous Information
Dept / Person				Process Indicators	Control And Limits	Checking Item	Timeframe (Frequency)	Respon- sibility	QAR	 Abbreviations Procedure
Step / Time				Quality	Targets	What is to be checked?	When to check?	Who will check?	Date of Last Review	Reference - Notes, etc.
NEED	Develop VE Work Plan		-	Plans plans approved by July 1	100%	Work Plan Received	Annual	SVE	D1: 1/2009 C	Federal Regulation 23 CFR 627
	Review projects in production pipe line.	line.		(Q1) % scheduled studies completed	75%	VER & Work Plan	Quarterly	SVE	D2: 11/2015 C	VE Procedure 625-030-002
	Meet Federal requirement?	\langle								AASHTO Guidelines for VE
	Project a good candidate?	Project Costs > 525 million?	Review project						D3: 1/2009 C	NCHRP Synthesis 352 – Value
REVIEW			YES Writen waiver from Grant Waver PES Director of Transportation Development to DVE						D4:11/2015 C	vauce Engineering Applications in Transportation
	Add project to Candidate List								D5: 1/2009 C	
DRAFT	all projects been reviewed? YES Draft Work Plan	ov A							D6: 12/2015 C	
APPROVAL	Submit work plan approval	Is work plan acceptable?	acceptable? NO						D7:1/2009 C	
DISTRIBUTE	Send copy of plan to SVE		and return to DVE Compile plans and publish on SharePoint						TPK: 1/2016 C	
		61							CODES:	
EXECUTE	Execute work plan	\bigcap							C- Compliance NC – Noncompliant BP Best Practice	nt
Approved:		Date:	Process Owner: Dist	District Value Engineer	ngineer	Rev #:	ti 1.6	Rev D	Rev Date: 3/2016	

			Process (Process Control System	E						
Process Name:	Process Name: Value Engineering Team Selection	Product/Service: Team with the necessary experience to conduct a value engineering a	skills and nalysis	Primary Customers: Team Leaders & Team Members Partner: FHWA & Project Manager		ment(s): Tea lines, leaders study the sele	Valid Requirement(s): Team makeup has the required disciplines, leadership skills and VE experience to study the selected project.		or's Valid Re- individuals not oject	quirement(s): : personally invo	Regulator's Valid Requirement(s): Multi-disciplined team of individuals not personally involved in the design of the project
Input(s): Project disciplines Supplier(s): Department Heads, Consultants	sciplines tment Heads,	Flow Chart			Process and Quality Indicators	nd Quality ttors	Ğ	Checking / Indicator Monitoring	ator Monito	ring	Miscellaneous Information
Dept / Person	DISTRICT	DISTRICT VALUE ENGINEER	DEPARTMENT HEAD	STATE VALUE ENGINEER		Control Limits	Checking Item	- E	Respon- sibility	QAR	- Abbreviations - Procedure
Time					Quality Indicators	Specs / Targets	What is to be checked?	When to check?	Who will check?	Date of Last Review	- Notes, etc.
NEED	Select VE Team	\bigcap			# of teams missing required disciplines	o	VER & VE Study Report	Annual	SVE	D1: 11/2006 C	Federal Regulation 23 CFR 627
	Determine required disciplines	plines			# of teams with more than 2 untrained teammember s serving as	0	VER & VE Study Report	Annual	S<	D2: 11/2015 C	VE Procedure 625-030-002 AASHTO
CONSULTANT REQUESTS	YES	NO			member member # of team leaders not meeting qualifications	o	VER, VE study report, SAVE, FLPE, TRESS	Annual	SVE	D3: 12/2006 C	Guidelines for VE NCHRP Synthesis 352 – Value
00	Request	Request District Consultant to SVE		Request State Consultant Services						D4:11/2015 C	Engineering Applications in Transportation
	VES Leader	m Leader								D5: 1/2007 C	
	Request Team Members for each discipline	the discipline								D6: 12/2015 C	
TEAM SELECTION			Review request Make selections & send to DVE							D7:11/2006 C	
	Review team selections	SUD								TPK: 1/2016 C	
	YES	\bigwedge								CODES:	
NOTIFICATION	Send Team Notification	ton								C- Compliance NC - Noncompliant BP Best Practice	ant
Approved:		Date:		Process Owner: Dist	District Value Engineer	ingineer		Rev #:	1.5	<u>Rev Date: 3/2016</u>	32016

		P	Process Control System	tem						
Process Name:	Process Name: Conduct Value Engineering Study	Product/Service: Completed VE Analysis with a report documenting the findings of the team.	Primary Customers: Management & DVE. Partners: FHWA, State Value Engineer	Customer's Valid Requirement(s): Follow the VE Job Plan to produce quality recommendations that can be implemented.	Requirement(s uce quality rect inted.): Follow the ommendations	-	Valid Require ystematic prot ivate inductry	Regulator's Valid Requirement(s): Follow widely recognized systematic problem solving process that is throughout private inductry and goverment agencies	Regulator's Valid Requirement(s): Follow widely recognized systematic problem solving process that is used throughout private inductry and government agencies.
Input(s): Recommendations Supplier(s): VE Team	le ndations eam	Flow Chart		Process a Indic	Process and Quality Indicators	Che	Checking / Indicator Monitoring	ator Monito	ring	Miscellaneous Information
Dept /	DISTRICT VALUE ENGINEER		VALUE ENGINEERING TEAM	1 (<u>)</u>		Checking Item	Timeframe (Frequency)	Respon- sibility	QAR	- Abbreviations - Procedure
Step / Time					Specs / Targets	What is to be checked?	When to check?	Who will check?	Date of Last Review	Reference - Notes, etc.
NEED	Conduct VE Study			a1 Adoption Rate	40%-60%	VER	Monthly	SVE	D1: 11/2006 C	Federal Regulation 23 CFR 627
			•							VE Procedure 625-030-002
INFORMATION		Information Phase - Cather Information about project from F project including object breas, com - Cather Information about the one-sent C	mation Phase - Cather Information about project from Project Manager, Designer and anyone else familiar with the project. Including objectives. costs: commitments. and constraints - Gather Information about the onseant design from endoneering reports. design plans, estimates						D2: 11/2015 C	1999 AASHTO Guidelines for VE
		alternatives. right of way maps etc. - Team identifies components and elemt - Tools used during this phase include. F	atternatives, right of way maps etc. - Team identifies components and elements of high cost - Tools used during this phase include. Project Team Eriefing, Site Visit and Pareto Analysis							NCHRP Synthesis 352 – Value Engineering
			-						D3: 12/2006 C	Applications in Transportation
		Function Analysis Phase: - Team analyzes the project and defines	tion Analysis Phase: - Team analyses the project and defines the project functions using a two word active verb/measurable	je					1	II allsportation
		nour rectantique - Team determines which functions can I - Team dessifies remaining functions as - tols used during this phase include: Ra	noun rectmique - Team determines which functions can be improved, eliminated or combined. - Team ridsatistes emaining functions as either Basis or Secondary functions. - toils used curing his phase include: Random Function identification, Function Analysis System						D4:11/2015 C	
		ו במווות מומ								
CREATIVE		Creative Phase: - Team generates aftermative ideas to pe as brainstorming techniques.	rive Phase. - Team generates alternative ideas to perform the project functions by using creative techniques, such stantationning techniques.	- <u>-</u>					D5: 1/2007 C	
				[
EVALUATION		Evaluation Phase - Team evaluates and selects the ideas v recomm endators. - Tools used during this phase include: A with weighted criteria.	uation Phase: - Team evaluates and selects the ideas with the greatest polential for development into fully supported meanadations: - Tools used during this phase include: Advantage and disadvantage comparison, evaluation main'x with weighted criteria.	8					D6: 12/2015 C	
DEVELOPMENT		Development Phase: - Team develops the kleas with the greate: establishing costs and back-up documenta - Tools used during this phase influeds: side validation of data and other bach inclose.	Iopment Phase: 1 Team develops the ideas with the greatest potential value into fully supported recommendations by establishing costs and back-up documentation needed to convey the benefits of the developed ideas. 2 Tools used turing this prase includes, cleaches, cost estimates. Life Cycle Cost Analysis and underlanin of char and or their benical work.						D7:11/2006 C	
			-							
PRESENTATION		Presentation Phase. - Team presents if recommendations to question and answer. - Dreft VE Study report is developed duri	entration Phase. - Team presents its recommendations to management and appropriate staff with time allocated for upeation and answer. - Draft VE Study report is developed during the study as a step-by-step record.						TPK: 1/2016 C	
								1	CODES:	
RESULTS	Enter data into VE database								C- Compliance NC - Noncompliant BP Best Practice	nt
<u>Approved:</u>		Date:	Process Owner:	District Value Engineer	Engineer		Rev #:	먥	Rev Date:	3/2016

			Proce	Process Control System	ysten	F						
Process Name:	Process Name: Value Engineering Recommendation Resolution Process.	Product/Service: Resolution of VE Team Recommendations		Primary Customers: Project Manager, SVE Partners: FHWA		Customer's Valid Requirement(s): Recommendations are acted upon ina timely manner, but that a recommendation is acted upon based on information and not time.	ment(s): Rec	commendation recommendati		ator's Valid F /e or reject rec t review of VE	Regulator's Valid Requirement(s): Process to approve or reject recommendations to ensure the prompt review of VE recommendations	: Process to to ensure the ons
Input(s): Recommendations Supplier(s): VE Team	indations	Flow Chart				Process and Quality Indicators	d Quality ors	Che		ator Monito	ring	Miscellaneous Information
Dept / Person	חופדפותד עאד דוב באופואובבס		PROJECT MANAGER/		1	Process Indicators	Control	Checking Item	Timeframe (Frequency)	Respon- sibility	QAR	 Abbreviations Procedure
Step / Time			CONSULTANT	MANAGEMENT		Quality Indicators	Specs / Targets	What is to be checked?	When to check?	Who will check?	Date of Last Review	Reference - Notes, etc.
NEED	Resolve Pending Recommendations	mmendations				Q1 Adoption Rate	40%-60%	VER	Monthly	SVE	D1: 11/2006 C	Federal Regulation 23 CFR 627
	Distribute Study report to project team and Decision Makers	am and Decision Makers				(02) # of pending		VER	Monthly	S <e< td=""><td>D2: 11/2015 C</td><td>VE Procedure 625-030-002 1999 AASHTO Guidelines for VE</td></e<>	D2: 11/2015 C	VE Procedure 625-030-002 1999 AASHTO Guidelines for VE
REVIEW	YES Recommendations resolved at presentation?	tions Interion?									D3: 12/2006 C	NCHRP Synthesis 352 - Value Engineering Applications in Transportation
25	Schedule Resolution Meeting	an Meeting									D4:11/2015 C	
RESOLUTION MEETING	Are Decision Makers Available	NO NOIIable									D5: 1/2007 C	
		Conduct meering - Obtain Decisions (Adopt, Modify, Pending, Reject)	ions (Adopt, Modify, Pending, Rej	ect)							D6: 12/2015 C	
	Decisions Made?	NO NO		Escalate Decision Process							D7:11/2006 C	
	Update the database	labase									TPK: 1/2016 C	
MONITOR	Monilor Pending Recommendations	mmendations								I	CODES:	
											C- Compliance NC - Noncompliant BP Best Practice	ant
Approved:		Date:		Process Owner:	District Value Engineer	ve Enginee			<u> </u>	Rev Date:	late: 03/2016	016

				rocess	Process Control System	me						
Process Name:	Process Name: Value Engineering Reporting Process.		Product/Service: Report detailing the results of the Value Engineering Program		Primary Customers: Management. Partners: FHVVA	Customer's Valid Requirement(s): Prepare accurate and reliable reports	Requirement(s e reports	s): Prepare	Regula results of	ator's Valid R of the Value E	Engineering Pro	Regulator's Valid Requirement(s): Report accurate results of the Value Engineering Program
Input(s): Study Results Supplier(s): DVE	isuits	Flo	Flow Chart			Process and Quality Indicators	d Quality tors	Chec	Checking / Indicator Monitoring	ator Monitor	ring	Miscellaneous Information
Dept / Person Step / Time	-	STATE VALUE ENGINEER		DISTRICT	DISTRICT VALUE ENGINEER	Process Indicators Quality Indicators	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	 Abbreviations Procedure Reference Notes, etc.
NEED	Report the results of the VE program to management	program to management				P1) # of corrections			Monthly		D1: 11/2006 C	Federal Regulation 23 CFR 627
MAINTAIN				Enter data into VE d Upload copy of	Enter data into VE database at conclusion of study Upload copy of final study report to VER	Monthly Report complete by Production Management Due Date			Monthly	SVE	D2: 11/2015 C	VE Procedure 625-030-002 1999 AASHTO Guidelines for VE
FILES	Prepare Draft Report & e-mail to Districts	t & e-mail to Districts				Annual Report com plete by July 30 th			Annual	SVE	D3: 12/2006	NCHRP Synthesis 352 – Value Engineering Applications in
				Review Draft Report	port	FHWA Annual Report to Division Requested date		~	Annal	SVE SVE		Transportation
DATA VERIFICATION				Is Draft Report accurate? Y ES	No No						с D5: 1/2007 с	
					Correct database and notify SVE						D6: 12/2015	
	is this the Amual Report?	Q									C D7:11/2006 C	
REPORT	Prepare Final Annual Report Prepare Annual FHWA Report	Send Monthly Report to Production Management Office	t to Production t Office								TPK: 01/2016 C	
	Distribute Reports	Present at Monthly Performance Meeting	lonthiy Meeting								CODES: CODES: C- Compliance NC - Noncompliant BP Best Practice	art
Approved:		Date:		Process	Process Owner:	igineer		Rev #:	16	- Rev D	Rev Date: 03/2016	

		Proc	Process Control System	ysten							
Process Name:	Process Name: Value Engineering Change Proposal	Product/Service: Resolution on submitted VECP by the contractor	e Primary Customers: Management, Contractor Partmers: FHWA		Customer's Vaild Requirement(s): Review and either approve or reject the VECP in a timely manner.	equirement(s): VECP in a time	Review and e ly manner.		r's Valid Request the use and	Regulator's Valid Requirement(s): Program that encourages the use and resolution of VECP's during construction.	ogram that CP's during
Input(s): Contractor Submittal Supplier(s): Contractor	tor Submittal Tactor	Flow Chart			Process and Quality Indicators	Quality s	Chec	Checking / Indicator Monitoring	tor Monitor	ing	Miscellaneous Information
Dept / Person Time	CONTRACTOR RESIDENT ENGINEER	DISTRICT VALUE ENGINEER DESIGN CONST.	DISTRICT DISTRUCTION OTHERS CONSTRUCTION OF OF OF OF	DISTRICT DIRECTOR OF OPERATIONS	- Per-					QAR Date of Last	 Abbreviations Procedure Reference
	Schedule CSI Workshop	Held CSI Workshop			Indicators T # pending	Targets che VER	scked?	check? Quarterly	check?	Review D1: 11/2006	- Notes, etc. Federal Regulation 23 CFR 627
	9 9]	, (u)	P2) \$\$\$ pending	VER		Quarterly	DVE/SVE	0	
	VES Schedule Concept Meeting	[ju]			a1) # acted upon	VER		Monthly	SVE SVE	D2: 12/2006 C	
AFTER CONTRACT TIME BEGINS	Viable proposal?	Hdd Concept Meeting No		<u>()</u>	Q2) \$\$\$ saved	VER		Monthly	ave sve	D3: 12/2006 C	
					(a) % Project Saved	VER		Monthly	SVE	D4: 5/2007 C	
SUBMITTAL	Submit Proposal			<u> </u>	Q4 % Program Saved	VER		Monthly	SVE		
	Forwa	rd copy to DVE								D5: 1/2007 C D6: 5/2007	
REVIEW	Cam pile com	Compile comments forward to DCE	Prepare letter of recomendation	Resolution NO					<u>, 10</u>	C D7: 11/2006 C	
		Resolution meeting	Appr	meeting? Approve/reject					F0	TPK: 1/2007 C	
NOTIFICATION	Process SA Notify Contractor of results	Update Database		(j)					020	CODES: C - Compliance NC- Noncompliant BP- Best Practices	۲ 8 8
Approved:		Date:	Process Owner:		District Value Engineer	neer		Rev #: 1.6	1	<u>Rev Date: 03/2016</u>	03/2016