

E2 Shear Key S1/S2 and Anchor Rod CCO Tracking Status

CCO NO.	Description	Reference	Work Performed By	Method of Payment	Rough Order of Magnitude	CCO Net Dollar Amount (Adds & Credits)	Date of TBPOC Approval	ATP Letter to ABF	Executed Date	ABFJV Spent to Date July 14, 2013 (Info known as of 7/19/13)	Notes to ABFJV Spent To Date	Amount ABFJV has currently spent/committed to (includes ABFJV MU) As of 7/12/2013	Notes to Spent/Committed Costs
Field Work													
320	Temporary Bearing Shimming	Install steel shim plates between the temporary bearing foot and a temporary jacking lug welded to the temporary bearing base plate. (RFI 3242)	ABFJV	LS	\$ 100,000	\$ 100,000		5/21/13					
325	Concrete Demolition	E-2 Concrete Demolition - Surface prep. (bush hammering) - Concrete Mock-up at Pier 7 - Fabricate, install and remove E2 access platform (wooden frame) - Drilling of dowels	Conco	EWFA	\$ 750,000	\$ 750,000		5/21/13		\$ 470,078	ABF Est Costs based on timesheets to 7/14/13	\$ 470,078	Remaining work is mockup removal and platform removal
329	E2 Shear Key Concrete	Forming, placing, curing, and finishing concrete. Includes creep test for 1 year	Conco	EWFA	\$ 1,300,000	\$ 1,300,000				\$ 150,176	current costs are for Conco's formwork	\$ 1,164,074	Conco ROM \$957,920 + thermal control \$130K (install \$100K and design \$30K)=
326	Concrete Coring	E-2 Concrete Coring + Keyway saw cutting + water disposal	Penhall	EWFA	\$ 500,000	\$ 500,000		5/28/13		\$ 351,611	Work is nearly complete. Rain for Rent will be off the project within 2 weeks.	\$ 437,211	-Penhall (concrete sawing and keying) and Eco Bay work complete -Rain For Rent- \$40K/month
327	ABFJV Field Work	All ABFJV Field work and subcontractor support, incl.: - Mob. and Demob. access/falsework/platforms, etc. - Field work and subcontractor support - Survey, Testing, and OC - Install Steel Saddle (set, grout into place, etc.) - Final Field paint and touch-up - A490 bolts - Fabricate, install and Remove falsework for E2 concrete - Bevel and Machine Shear Keys (In Place Machining) - Shop drawing detailing (Finnee)	ABFJV	EWFA	\$ 5,700,000	\$ 5,700,000		5/21/13		\$ 2,127,373	ABF Est Costs based on EWB up to 7/14/13 estimated subcontract work	\$ 2,127,373	ABFJV forecast to complete is \$5.7; Additional \$400K from last week's forecast to complete is due to E2 Elevator engineering, fabrication, installation and operation from bridge opening to Jan 2014
328	Bar Reinforcing Steel	Furnish and place rebar	Harris Salinas	EWFA	\$ 1,000,000	\$ 1,000,000						\$ 963,929	Harris Salinas Revised Cost (7/3/13)= \$876,299 Material= \$422,049 Labor ROM @ Force Account= \$454,250
330	Post Tensioning	Furnish strand/anchors, install, stress, grout, etc	Schwager Davis	EWFA	\$ 1,000,000	\$ 1,000,000						\$ 840,495	SDI Quote based on June 10 dwg=785,509+MU. Estimate may increase to reflect steel ducts
331	Pier E2 Plans	Plan Sheets for all Pier E2 Work (Zero cost CCO)											
333	Pier E2 CCO Credit	Pier E2 Shear Key S1/S2 Work Credit- See CSR #3				\$ (3,000,000)							
337	Procure, Install and Remove Temp Rods At E2		Dyson ABFJV			\$ 160,000						\$ 25,446	Dyson quote=\$19,293
338	Fabricate and install E2 Permanent Bearing Interim Shimming					\$ 250,000				\$ 52,308		\$ 52,429	Benicia Fab & Machining cost=\$43,727
Subtotal					\$ 7,760,000	\$ 7,760,000				\$ 3,151,546		\$ 6,081,034	
Fabrication													
313	Shear Key Materials	Procuring the necessary long lead time materials for Pier E2 Shear Keys 1 & 2 Steel Saddle.	Leeco, XKT Evraz	EWFA	\$ 1,500,000.00	\$ 1,500,000.00		4/19/2013 5/21/13		\$ 1,466,937.00		\$ 1,466,937	-EVRAZ- \$625,831; -Leeco \$138,728 (\$97K credit for cancelling material); -XKT \$510,781 (inc tax) - \$116K wedge plates, saddle tie plates (inc tax, freight, MU) -shipping to SMC
319	E2 Shear Key Fabrication	Fabricate Steel Saddle	XKT Steward Machine	EWFA	\$ 6,500,000.00	\$ 6,500,000.00				\$ 566,184.91		6,405,971	XKT quote is based on Submittal 2859R3 (2,620,884.00 plus tax) SMC price is subject to change based on shop drawings revised on June 28
Subtotal					\$ 8,000,000	\$ 8,000,000				\$ 2,033,122		\$ 7,872,908	
Subtotal (Field Work & Fabrication)					\$ 15,760,000	\$ 15,760,000				\$ 5,184,668		\$ 13,953,942	
*TBPOC Approved Expenditure (Field Work & Fabrication)					\$ 18,000,000	\$ 18,000,000				\$ 18,000,000		\$ 18,000,000	
Remaining Funds from TBPOC Approved Expenditure (Field Work & Fabrication)					\$ 2,240,000	\$ 2,240,000				\$ 12,815,332		\$ 4,046,058	
Testing/Rod Replacement													
312	Furnish Anchor Rods	Furnishing twenty (20) replacement ASTM A354 Grade BD anchor bolt assemblies for the Pier E2 Crossbeam Shear Keys and Orthotropic Box Girder (OBG) Bearings. Performing one embrittlement test per anchor bolt lot on the full size diameter threaded section.	Dyson	EWFA	\$ 175,000.00	\$ 175,000.00		4/19/13 4/24/13		\$ 171,858.50		\$ 171,858.50	Dyson 6/25/13 Estimate = \$156,235 (does not include embrittlement test)
314	Remove, Replace & Test Sample Rods	-Removing anchor rods from Pier E2 shear keys and bearings. Retensioning the selected rods to 0.75 Fu, re-securing the nut, and then letting the rods sit for a period of 24 hours prior to removal. At an independent testing laboratory, loading the removed rods to failure. -Removing galvanizing from the top of shear key and bearing rods. After the Department has performed hardness tests on the rods, replacing the galvanizing that was removed with inorganic zinc primer. -Removing and test anchor rod from Tower -Wet Test -Removal of the following rods: S3 Rod D2, S4 Rod E2.B1 Rod F4, B2 Rod F5 -Removing galvanizing from the top of 194/388 3" tower anchor rods and 36/36 4" tower rods -Procure and fabricate materials for the test rig for wet test as detailed in the attached plan sheets	ABFJV + subs (Carpenter Rigging, etc)	EWFA	\$ 5,000,000.00	\$ 500,000.00		4/19/13 5/3/13 (email) 5/6/13 5/7/13 5/21/13 5/23/13 (2ATPs)	6/19/2013	\$ 4,850,753	based on EWB and subs (Carpenter Rigging, Dyson, VGO)	\$ 4,850,753.20	-ABFJV EWB up to #37 Includes labor, materials, and subcontractor required for tests 1-11 and testing of 2013 rods
314S1		Additional Funds											
Subtotal					\$ 5,175,000	\$ 675,000				\$ 5,022,612		\$ 5,022,612	
**TBPOC Approved Expenditure					\$ 1,000,000	\$ 1,000,000				\$ 1,000,000		\$ 1,000,000	
Remaining Funds from TBPOC Approved Expenditure					\$ 325,000	\$ 325,000				\$ (4,022,612)		\$ (4,022,612)	

*4/11/13 TBPOC Meeting: TBPOC approved an expenditure of up to \$4.3M to (1) purchase replacement rods, (2) secure long lead materials for retrofit strategy B and C, and (3) to keep retrofit strategy A in play, but not to spend any of the approved \$ on it.
6/6/13 TBPOC Meeting: The overall budget request for \$10 M was approved by the TBPOC for a not-to-exceed amount of \$7.5 M with an expectation of a schedule by next week (see meeting minutes).
7/10/13 TBPOC Meeting: The TBPOC approved a total budget request of \$23million- \$18M for capital outlay costs and \$5M for capital outlay support costs.
**5/30/13 TBPOC Meeting: TBPOC Meeting- The TBPOC approved a not-to-exceed amount of \$1 M for the wet test of 2010 bolts, and revised the April 11 approval for the \$4.3 M expenditure to include all E2 shear key anchor bolt activities. See meeting minutes.