

M&I 2016 Sch A-5 F.Z18.XLSM  
12/01/2015

CENTRAL VALLEY PROJECT  
SCHEDULE OF M&I CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT  
AS OF SEPTEMBER 30, 2014  
2016 M&I WATER RATES

A	B	C	D	E	F	G
Facility/Contractor	M&I Construction Cost at 09/30/14	Historical & Projected (1981-2030) KWH Per AF <sup>2/</sup>	Ratio of Total (C/Total C)	Allocation of Project Use Energy Construction Costs		Total M&I Construction Costs at 09/30/14 (B+E+F)
				CVP PUE Construction Costs as of 9/30/14		
				(BOR) <sup>2/</sup>	(DOE) <sup>2/</sup>	
Ref	<Cost Allocation>	<Sch A-7 & CVO>		(D*Total PUE BOR)	(D*Total PUE DOE)	
<b>Storage</b> <sup>1/</sup>						
San Felipe Unit Contractors	\$ 7,286,895	-	-	\$ -	\$ -	\$ 7,286,895
All Other Contractors	\$ 29,758,292	182,592,752	0.031608	\$ 496,171	\$ 411,060	\$ 30,665,523
Total Storage	\$ 37,045,187	182,592,752	0.031608	\$ 496,171	\$ 411,060	\$ 37,952,418
<b>Conveyance</b>						
Contra Costa WD <sup>3/</sup>	\$ -					\$ -
All Other Contractors	\$ 19,885,062					\$ 19,885,062
Total Conveyance	\$ 19,885,062					\$ 19,885,062
<b>Conveyance Pumping</b>						
Dos Amigos Pumping Plant	\$ 211,812	89,051,978	0.015415	\$ 241,987	\$ 200,477	\$ 654,276
O'Neill Pump-Generator Plant	\$ 1,366,967	286,994,830	0.049681	\$ 779,869	\$ 646,094	\$ 2,792,931
Tracy Pumping Plant	\$ 1,921,836	1,853,162,863	0.320794	\$ 5,035,718	\$ 4,171,913	\$ 11,129,467
Total Conveyance Pumping	\$ 3,500,615	2,229,209,671	0.385890	\$ 6,057,574	\$ 5,018,484	\$ 14,576,674
<b>Direct Pumping</b>						
Bella Vista WD (Wintu PP)	\$ 316,464	72,586,141	0.012565	\$ 197,243	\$ 163,409	\$ 677,116
Colusa County WD	\$ -	758,450	0.000131	\$ 2,061	\$ 1,707	\$ 3,768
Contra Costa Pumping Plants	\$ -	860,499,484	0.148958	\$ 2,338,290	\$ 1,937,190	\$ 4,275,481
Kanawha WD	\$ -	4,190	0.000001	\$ 11	\$ 9	\$ 21
Pleasant Valley Pumping Plant	\$ 19,551	3,842,789	0.000665	\$ 10,442	\$ 8,651	\$ 38,645
Pleasant Valley WD Canalside Relift PP	\$ 158,745	49,105	0.000009	\$ 133	\$ 111	\$ 158,989

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	Allocation of Project Use Energy Construction Costs					
Facility/Contractor	M&I Construction Cost at 09/30/14	Historical & Projected (1981-2030) KWH Per AF <sup>2/</sup>	Ratio of Total (C/Total C)	CVP PUE Construction Costs as of 9/30/14		Total M&I Construction Costs at 09/30/14 (B+E+F)
Ref	<Cost Allocation>	<Sch A-7 & CVO>	(C/Total C)	(D*Total PUE BOR) <sup>2/</sup>	(D*Total PUE DOE) <sup>2/</sup>	(B+E+F)
San Benito County WD						
Pacheco Pumping Plant	\$ -	33,641,039	0.005823	\$ 91,415	\$ 75,734	\$ 167,149
Gianelli, William R. Pump-Generator Plant <sup>1/</sup>	\$ 29,820	50,733,631	0.008782	\$ 137,862	\$ 114,214	\$ 281,895
San Luis WD Canalside Relifts & Turnouts	\$ -	20,605,122	0.003567	\$ 55,992	\$ 46,387	\$ 102,379
Santa Clara Valley WD						
Coyote Pumping Plant	\$ -	232,269,422	0.040207	\$ 631,161	\$ 522,894	\$ 1,154,055
Pacheco Pumping Plant	\$ -	806,992,273	0.139695	\$ 2,192,892	\$ 1,816,733	\$ 4,009,625
Gianelli, William R. Pump-Generator Plant <sup>1/</sup>	\$ 715,316	1,217,014,988	0.210673	\$ 3,307,073	\$ 2,739,792	\$ 6,762,181
Shasta Pumping Plant	\$ 314,152	48,745,110	0.008438	\$ 132,458	\$ 109,737	\$ 556,347
State-Delta Pumping Plant (Cross Valley Canal)	\$ -	3,247,101	0.000562	\$ 8,824	\$ 7,310	\$ 16,134
Westlands WD Canalside Relift PP	\$ 529,151	14,007,223	0.002425	\$ 38,063	\$ 31,534	\$ 598,747
Total Direct Pumping	\$ 2,083,199	3,364,996,068	0.582502	\$ 9,143,920	\$ 7,575,411	\$ 18,802,530
Other Costs <sup>4/</sup>						
	\$ 4,786,098					\$ 4,786,098
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Total	\$ 67,300,162	5,776,798,491	1.000000	\$ 15,697,665	\$ 13,004,955	\$ 96,002,783

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Footnotes:

1/ Allocation of Storage Costs:

	San Felipe Unit			All Other Storage Contractors	Total
	Storage	Suballocation of Storage Costs (Dir. Pump. Appl. to SL/PG)			
		San Benito County WD	Santa Clara Valley WD		
Historical and Projected 1981-2030 M&I Deliveries (Sch A-7)	<u>3,999,207</u>	<u>160,043</u>	<u>3,839,164</u>	<u>14,816,909</u>	<u>18,816,116</u>
Ratios	<u>0.212542</u>	<u>0.040019</u>	<u>0.959981</u>	<u>0.787458</u>	<u>1.000000</u>
Allocated Gianelli, WR Pump-Generator Costs	\$ 745,136	\$ 29,820	\$ 715,316	\$ 2,760,692	\$ 3,505,827
Allocated Other Storage Costs	<u>\$ 7,286,895</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 26,997,600</u>	<u>\$ 34,284,496</u>
Total	<u>\$ 8,032,031</u>	<u>\$ 29,820</u>	<u>\$ 715,316</u>	<u>\$ 29,758,292</u>	<u>\$ 37,790,323</u>

2/ These costs represent the total Pumping Project Use Power costs allocated to Irrigation for the CVP Bureau of Reclamation (BOR) and Western Area Power Administration (DOE). The costs are allocated to components based on the ratios identified above under "Allocation of Project Use Energy Costs". They are then suballocated to individual facilities based on the historical and projected 1981-2030 KWHs/AF.

3/ Allocated costs are recovered through a repayment contract.

4/ This amount includes Level 2 Refuge Water Supply and Trinity River Restoration Program