RECLAMATION
Managing Water in the West

U.S. Department of the Interior
Bureau of Reclamation

IRR 2017 Sch A-5 F.Z19.XLSM
09/26/2016

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION CONSTRUCTION AND PROJECT USE ENERGY COSTS BY COMPONENT
AS OF SEPTEMBER 30, 2015
2017 IRRIGATION WATER RATES

| A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| | | Allocation of Project Use Energy Construction Costs | | | | |
| | | | | CVP PUE Construction Costs as of 9/30/15 | | |
| **Component/Facility** | **Irrigation Construction Costs at 09/30/15** | **Historical & Projected (1981-2030) KWH Per AF 1/** | **Ratio of Total** | **(BOR) 1/** | **(DOE) 1/** | **Total Irrigation Construction Costs at 09/30/15** |
| Ref | <Cost Allocation> | <Sch A-7> | (C/Total C) | (D*PUE BOR) | (D*PUE DOE) | (B+E+F) |
| **Storage 2/** | | | | | | |
| San Felipe Unit Contractors | $ 3,789,252 | | | | | $ 3,789,252 |
| All Other Contractors | $ 365,806,910 | 8,478,095,767 | 0.204465 | $ 22,202,201 | $ 16,677,820 | $ 404,686,931 |
| Total Storage | $ 369,596,162 | 8,478,095,767 | 0.204465 | $ 22,202,201 | $ 16,677,820 | $ 408,476,183 |
| **Conveyance** | | | | | | |
| Contra Costa WD 3/ | $ - | | | | | $ - |
| All Other Contractors 4/ | $ 409,285,501 | | | | | $ 409,285,501 |
| Total Conveyance | $ 409,285,501 | | | | | $ 409,285,501 |
| **Conveyance Pumping** | | | | | | |
| Corning Pumping Plant | $ 2,529,063 | 76,915,509 | 0.001855 | $ 201,424 | $ 151,306 | $ 2,881,792 |
| DMC - California Aqueduct Intertie | $ 26,962,641 | - | - | $ - | $ - | $ 26,962,641 |
| Dos Amigos Pumping Plant | $ 14,432,388 | 5,582,870,395 | 0.134641 | $ 14,620,266 | $ 10,982,432 | $ 40,035,085 |
| O'Neill Pump-Generator Plant | $ 11,786,554 | 2,405,105,261 | 0.058004 | $ 6,298,423 | $ 4,731,241 | $ 22,816,218 |
| Jones Pumping Plant | $ 22,398,474 | 18,855,023,754 | 0.454724 | $ 49,377,011 | $ 37,090,957 | $ 108,866,443 |
| Total Conveyance Pumping | 78,109,120 | 26,919,914,919 | 0.649223 | $70,497,124 | $52,955,935 | $201,562,179 |
| **Direct Pumping 2/** | | | | | | |
| Bella Vista WD (Wintu PP) | $ 841,906 | 162,797,212 | 0.003926 | $ 426,329 | $ 320,249 | $ 1,588,484 |
| Colusa County WD Canalside Relifts | $ 12,635,431 | 244,028,557 | 0.005885 | $ 639,055 | $ 480,045 | $ 13,754,531 |
| Colusa Service Area - Cortina | $ 141,792 | | | | | $ 141,792 |
| Colusa Service Area - Davis | $ 180,305 | | | | | $ 180,305 |
| Contra Costa Pumping Plants | $ - | | | | | |

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| **Component/Facility** | **Irrigation Construction Costs at 09/30/15** | **Historical & Projected (1981-2030) KWH Per AF 1/** | **Ratio of Total** | **(BOR) 1/** | **(DOE) 1/** | **Total Irrigation Construction Costs at 09/30/15** |
| Ref | <Cost Allocation> | <Sch A-7> | (C/Total C) | (D*PUE BOR) | (D*PUE DOE) | (B+E+F) |
| Corning WD Canalside Relifts | $ 2,779,835 | 117,450,012 | 0.002833 | $ 307,575 | $ 231,044 | $ 3,318,454 |
| Dunnigan WD Canalside Relifts | $ 1,700,384 | 2,680,863 | 0.000065 | $ 7,021 | $ 5,274 | $ 1,712,678 |
| Kanawha WD Canalside Relifts | $ 2,753,824 | 34,052,004 | 0.000821 | $ 89,174 | $ 66,986 | $ 2,909,984 |
| Orland-Artois WD Canalside Relifts | $ 7,496,789 | 74,845,704 | 0.001805 | $ 196,004 | $ 147,234 | $ 7,840,027 |
| Panoche WD Relifts | $ 276,681 | 1,969,129 | 0.000047 | $ 5,157 | $ 3,874 | $ 285,711 |
| Proberta WD Canalside Relifts | $ 172,158 | 6,279,319 | 0.000151 | $ 16,444 | $ 12,352 | $ 200,955 |
| San Benito County WD: | | | | | | |
| Pacheco Pumping Plant | | 130,464,954 | 0.003146 | $ 341,658 | $ 256,646 | $ 598,304 |
| Gianelli, William R. Pump-Generator Plant **2/** | $ 131,798 | 196,752,571 | 0.004745 | $ 515,250 | $ 387,045 | $ 1,034,093 |
| San Luis WD Canalside Relifts & Turnouts | $ 8,107,579 | 918,099,097 | 0.022142 | $ 2,404,292 | $ 1,806,053 | $ 12,317,925 |
| Santa Clara Valley WD: | | | | | | |
| Coyote Pumping Plant | | 36,298,306 | 0.000875 | $ 95,057 | $ 71,405 | $ 166,462 |
| Pacheco Pumping Plant | | 126,114,235 | 0.003041 | $ 330,264 | $ 248,088 | $ 578,352 |
| Gianelli, William R. Pump-Generator Plant **2/** | $ 127,402 | 190,191,305 | 0.004587 | $ 498,068 | $ 374,138 | $ 999,608 |
| State-Delta Pumping Plant (Cross Valley Canal) | $ - | 764,728,244 | 0.018443 | $ 2,002,649 | $ 1,504,347 | $ 3,506,996 |
| Westlands WD: | | | | | | |
| Pleasant Valley Canalside Relifts | $ 1,342,806 | 4,320,796 | 0.000104 | $ 11,315 | $ 8,500 | $ 1,362,621 |
| Pleasant Valley Pumping Plant | $ 9,921,291 | 638,649,822 | 0.015402 | $ 1,672,478 | $ 1,256,330 | $ 12,850,099 |
| Westlands WD Canalside Relifts | $ 36,342,535 | 2,380,094,459 | 0.057400 | $ 6,232,925 | $ 4,682,040 | $ 47,257,500 |
| Westside WD Canalside Relifts | $ 7,002,377 | 36,970,618 | 0.000892 | $ 96,818 | $ 72,727 | $ 7,171,922 |
| Total Direct Pumping | $ 91,954,893 | 6,066,787,207 | 0.146312 | $ 15,887,533 | $ 11,934,376 | $ 119,776,802 |
| San Luis Drain | $ 52,381,552 | | | | | $ 52,381,552 |
| Other Costs | $ 20,345,532 | | | | | $ 20,345,532 |
| Grand Total | $ 1,021,672,760 | 41,464,797,893 | 1.000000 | $108,586,859 | $ 81,568,131 | $ 1,211,827,750 |

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Footnotes:

1/ The costs (BOR - $108,586,859 DOE - $81,568,131) are allocated to components based on the ratios identified under "Allocation of Project Use Energy Costs". They are then suballocated to individual facilities based on the historical and projected 1981-2030 KWHs per A/F.

2/ Allocation of Storage Costs:

| | San Felipe Unit | | | All Other | |
|---|---|---|---|---|---|
| | Storage | San Benito | Santa Clara | Storage Contractors | Total |
| Historical and Projected 1981-2030 Irrigation Del. (Sch A-7) | 1,220,643 | 620,671 | 599,973 | 110,293,929 | 111,514,573 |
| Ratios | 0.010946 | 0.508478 | 0.491522 | 0.989054 | 1.000000 |
| Allocated Gianelli, WR Pump-Generator Costs | $ 259,200 | $ 131,798 | $ 127,402 | $ 23,420,588 | $ 23,679,788 |
| Allocated Other Storage Costs | $ 3,789,252 | | | $ 342,386,322 | $ 346,175,574 |
| Total | $ 4,048,452 | $ 131,798 | $ 127,402 | $ 365,806,910 | $ 369,855,362 |

3/ Contra Costa Water District's conveyance facility costs are recovered through a repayment contract.

4/ Glide WD's cost of the Relift Pumping Plant is included in conveyance for ratesetting purposes.