

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Full Generation Replacements**

FY2019

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,768,766	Customers/Gen/Tran	2,151,297	5,617,469
Substation & Transmission Lines	20,738,005	Transmission	0	20,738,005
Communication & Control Equipment	1,244,975	SCADA	13,329	1,231,646
System Operation & Load Dispatch	7,053,804	SCADA/Tran	68,057	6,985,747
Subtotal Western O&M	<u>36,805,551</u>		<u>2,232,683</u>	<u>34,572,868</u>
	100%		6.1%	93.9%
Western General Expenses				
Western General Expenses	914,834	% of Subtotal	55,495	859,339
Bureau of Reclamation O&M	10,759,500	Generation	10,759,500	0
Purchase Power	3,920,000	Gen & Tran	2,020,000	1,900,000
Capitalized Movable Equipment	1,236,552	% of Subtotal	75,011	1,161,541
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,386,504)	Transmission	(4,129)	(2,382,375)
Bureau of Reclamation Replacements	835,000	Generation	835,000	0
Principal/Interest Payments - Reclamation	84,414	Generation	84,414	0
Principal/Interest Payments - Western	22,837,525	Transmission	0	22,837,525
Total Annual Gross Expenses	<u>75,006,872</u>		<u>16,057,974</u>	<u>58,948,897</u>
	100%		21.4%	78.6%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,125,000	Transmission	0	2,125,000
Losses	2,125,000	Transmission	0	2,125,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>5,763,374</u>		<u>250,000</u>	<u>5,513,374</u>
	100%		4.3%	95.7%
Expenses Less Other Revenues				
Expenses Less Other Revenues	69,243,498		15,807,974	53,435,523
Interest Credits				
Interest Credits	0		0	0
Carryover Application	(3,188,995)		2,005,088	(5,194,083)
Total Credits & Carryover	<u>(3,188,995)</u>		<u>2,005,088</u>	<u>(5,194,083)</u>
Revenue Requirement				
Revenue Requirement	66,054,504		17,813,063	48,241,440



**PARKER-DAVIS PROJECT
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FY2019

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	----- 8,500	----- 100%

Customers		
	Count	Percentage
Transmission	67	65.05%
Generation	36	34.95%
	----- 103	----- 100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,305,853	0
	----- 2,577,000	----- 1,425,045



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FY2020

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,675,890	Customers/Gen/Tran	2,558,768	5,117,122
Substation & Transmission Lines	21,506,290	Transmission	0	21,506,290
Communication & Control Equipment	1,392,399	SCADA	14,907	1,377,492
System Operation & Load Dispatch	7,801,474	SCADA/Tran	75,056	7,726,418
Subtotal Western O&M	<u>38,376,053</u>		<u>2,648,731</u>	<u>35,727,322</u>
	100%		6.9%	93.1%
Western General Expenses				
Bureau of Reclamation O&M	914,834	% of Subtotal	63,142	851,692
Purchase Power	11,513,500	Generation	11,513,500	0
Capitalized Movable Equipment	4,260,000	Gen & Tran	2,360,000	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	1,236,552	% of Subtotal	85,348	1,151,204
Bureau of Reclamation Replacements	(2,094,712)	Transmission	(3,758)	(2,090,954)
Principal/Interest Payments - Reclamation	1,800,000	Generation	1,800,000	0
Principal/Interest Payments - Western	85,882	Generation	85,882	0
Total Annual Gross Expenses	<u>79,826,842</u>	Transmission	<u>0</u>	<u>23,734,733</u>
	100%		18,552,845	61,273,997
			23.2%	76.8%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,125,000	Transmission	0	2,125,000
Losses	2,125,000	Transmission	0	2,125,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>5,763,374</u>		<u>250,000</u>	<u>5,513,374</u>
	100%		4.3%	95.7%
Expenses Less Other Revenues				
	74,063,468		18,302,845	55,760,623
Interest Credits				
Carryover Application	0		0	0
Total Credits & Carryover	<u>(7,765,605)</u>		<u>(489,783)</u>	<u>(7,275,823)</u>
	(7,765,605)		(489,783)	(7,275,823)
Revenue Requirement				
	66,297,863		17,813,063	48,484,800



**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Full Generation Replacements**

FY2020

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	----- 8,500	----- 100%

Customers		
	Count	Percentage
Transmission	67	65.05%
Generation	36	34.95%
	----- 103	----- 100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,318,853	0
	----- 2,590,000	----- 1,425,045



**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Full Generation Replacements**

FY2021

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,819,083	Customers/Gen/Tran	2,609,944	5,209,139
Substation & Transmission Lines	18,936,416	Transmission	0	18,936,416
Communication & Control Equipment	1,420,247	SCADA	15,205	1,405,042
System Operation & Load Dispatch	7,922,312	SCADA/Tran	76,179	7,846,133
Subtotal Western O&M	<u>36,098,058</u>		<u>2,701,328</u>	<u>33,396,730</u>
	100%		7.5%	92.5%
Western General Expenses				
Bureau of Reclamation O&M	914,834	% of Subtotal	68,460	846,374
Purchase Power	11,363,500	Generation	11,363,500	0
Capitalized Movable Equipment	4,600,000	Gen & Tran	2,700,000	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	1,236,552	% of Subtotal	92,535	1,144,017
Bureau of Reclamation Replacements	(1,964,394)	Transmission	(2,155)	(1,962,239)
Principal/Interest Payments - Reclamation	1,700,000	Generation	1,700,000	0
Principal/Interest Payments - Western	86,419	Generation	86,419	0
Total Annual Gross Expenses	<u>78,402,920</u>	Transmission	<u>0</u>	<u>24,367,951</u>
	100%		23.9%	76.1%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,125,000	Transmission	0	2,125,000
Losses	2,125,000	Transmission	0	2,125,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	17,017,350	Transmission	0	17,017,350
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>22,780,724</u>		<u>250,000</u>	<u>22,530,724</u>
	100%		1.1%	98.9%
Expenses Less Other Revenues	55,622,196		18,460,087	37,162,109
Interest Credits	0		0	0
Carryover Application	16,010,866		(647,024)	16,657,891
Total Credits & Carryover	<u>16,010,866</u>		<u>(647,024)</u>	<u>16,657,891</u>
Revenue Requirement	71,633,063		17,813,063	53,820,000



**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Full Generation Replacements**

FY2021

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	----- 8,500	----- 100%

Customers		
	Count	Percentage
Transmission	67	65.05%
Generation	36	34.95%
	----- 103	----- 100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,603,853	0
	----- 2,875,000	----- 1,425,045



**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Full Generation Replacements**

FY2022

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	7,965,140	Customers/Gen/Tran	2,662,141	5,302,999
Substation & Transmission Lines	19,375,144	Transmission	0	19,375,144
Communication & Control Equipment	1,448,652	SCADA	15,509	1,433,143
System Operation & Load Dispatch	8,045,567	SCADA/Tran	77,327	7,968,240
Subtotal Western O&M	<u>36,834,503</u>		<u>2,754,977</u>	<u>34,079,526</u>
	100%		7.5%	92.5%
Western General Expenses				
Bureau of Reclamation O&M	12,135,000	% of Subtotal	68,424	846,410
Purchase Power	4,900,000	Generation	12,135,000	0
Capitalized Movable Equipment	1,236,552	Gen & Tran	3,000,000	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,959,038)	% of Subtotal	92,486	1,144,066
Bureau of Reclamation Replacements	1,200,000	Transmission	(2,091)	(1,956,947)
Principal/Interest Payments - Reclamation	85,697	Generation	1,200,000	0
Principal/Interest Payments - Western	26,831,161	Generation	85,697	0
	<u>82,178,710</u>	Transmission	<u>0</u>	<u>26,831,161</u>
Total Annual Gross Expenses	100%		19,334,493	62,844,217
			23.5%	76.5%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,125,000	Transmission	0	2,125,000
Losses	2,125,000	Transmission	0	2,125,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>5,763,374</u>		<u>250,000</u>	<u>5,513,374</u>
	100%		4.3%	95.7%
Expenses Less Other Revenues				
	76,415,336		19,084,493	57,330,843
Interest Credits				
Interest Credits	0		0	0
Carryover Application	(4,782,273)		(1,271,430)	(3,510,843)
Total Credits & Carryover	<u>(4,782,273)</u>		<u>(1,271,430)</u>	<u>(3,510,843)</u>
Revenue Requirement				
	71,633,064		17,813,063	53,820,000



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SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	----- 8,500	----- 100%

Customers		
	Count	Percentage
Transmission	67	65.05%
Generation	36	34.95%
	----- 103	----- 100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,603,853	0
	----- 2,875,000	----- 1,425,045



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Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	8,114,118	Customers/Gen/Tran	2,715,385	5,398,733
Substation & Transmission Lines	19,822,647	Transmission	0	19,822,647
Communication & Control Equipment	1,477,625	SCADA	15,819	1,461,806
System Operation & Load Dispatch	8,171,287	SCADA/Tran	78,496	8,092,791
Subtotal Western O&M	<u>37,585,677</u>		<u>2,809,700</u>	<u>34,775,977</u>
	100%		7.5%	92.5%
Western General Expenses				
Bureau of Reclamation O&M	12,310,500	% of Subtotal	68,388	846,446
Purchase Power	4,900,000	Generation	12,310,500	0
Capitalized Movable Equipment	1,236,552	Gen & Tran	3,000,000	1,900,000
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,931,064)	% of Subtotal	92,437	1,144,115
Bureau of Reclamation Replacements	800,000	Transmission	(2,091)	(1,928,973)
Principal/Interest Payments - Reclamation	87,250	Generation	800,000	0
Principal/Interest Payments - Western	28,197,464	Generation	87,250	0
	<u>84,101,213</u>	Transmission	<u>0</u>	<u>28,197,464</u>
Total Annual Gross Expenses	100%		19,166,184	64,935,029
			22.8%	77.2%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	2,287,968	Transmission	0	2,287,968
Losses	2,287,968	Transmission	0	2,287,968
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	250,000	Generation	250,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	<u>6,089,310</u>		<u>250,000</u>	<u>5,839,310</u>
	100%		4.1%	95.9%
Expenses Less Other Revenues				
	78,011,903		18,916,184	59,095,719
Interest Credits				
Interest Credits	0		0	0
Carryover Application	(6,378,841)		(1,103,121)	(5,275,719)
Total Credits & Carryover	<u>(6,378,841)</u>		<u>(1,103,121)</u>	<u>(5,275,719)</u>
Revenue Requirement				
	71,633,063		17,813,063	53,820,000



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	----- 8,500	----- 100%

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Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,603,853	0
	----- 2,875,000	----- 1,425,045

