

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Amortized 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	914,834	% of Subtotal	55,495	859,339
Bureau of Reclamation O&M	10,859,500	Generation	10,859,500	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	0	Generation	0	0
Principal/Interest Payments - Reclamation	198,028	Generation	198,028	(0)
Principal/Interest Payments - Western	22,837,487	Transmission	0	22,837,487
Total Annual Gross Expenses	<u>74,385,448</u>		<u>15,436,588</u>	<u>58,948,859</u>
	100%		20.8%	79.2%
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	68,622,074		15,186,588	53,435,485
Interest Credits	0		0	0
Carryover Application	(4,230,603)		1,272,681	(5,503,285)
Total Credits & Carryover	<u>(4,230,603)</u>		<u>1,272,681</u>	<u>(5,503,285)</u>
Revenue Requirement	64,391,471		16,459,270	47,932,200



**PARKER-DAVIS PROJECT
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Amortized Generation Replacements**

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



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

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	914,834	% of Subtotal	63,142	851,692
Bureau of Reclamation O&M	11,513,500	Generation	11,513,500	0
Purchase Power	4,260,000	Gen & Tran	2,360,000	1,900,000
Capitalized Movable Equipment	1,236,552	% of Subtotal	85,348	1,151,204
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,094,712)	Transmission	(3,758)	(2,090,954)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	298,361	Generation	298,361	0
Principal/Interest Payments - Western	23,716,135	Transmission	0	23,716,135
Total Annual Gross Expenses	<u>78,220,724</u>		<u>16,965,324</u>	<u>61,255,399</u>
	100%		21.7%	78.3%
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	72,457,350		16,715,324	55,742,025
Interest Credits	0		0	0
Carryover Application	(7,824,079)		(256,054)	(7,568,025)
Total Credits & Carryover	<u>(7,824,079)</u>		<u>(256,054)</u>	<u>(7,568,025)</u>
Revenue Requirement	64,633,271		16,459,270	48,174,000



**PARKER-DAVIS PROJECT
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 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
Amortized 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	914,834	% of Subtotal	68,460	846,374
Bureau of Reclamation O&M	11,489,000	Generation	11,489,000	0
Purchase Power	4,600,000	Gen & Tran	2,700,000	1,900,000
Capitalized Movable Equipment	1,236,552	% of Subtotal	92,535	1,144,017
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,964,394)	Transmission	(2,155)	(1,962,239)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	323,807	Generation	323,807	(0)
Principal/Interest Payments - Western	24,317,845	Transmission	0	24,317,845
Total Annual Gross Expenses	<u>77,015,703</u>		<u>17,372,975</u>	<u>59,642,727</u>
	100%		22.6%	77.4%
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	54,234,979		17,122,975	37,112,003
Interest Credits	0		0	0
Carryover Application	15,699,292		(663,705)	16,362,997
Total Credits & Carryover	<u>15,699,292</u>		<u>(663,705)</u>	<u>16,362,997</u>
Revenue Requirement	69,934,271		16,459,270	53,475,000



**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
Amortized 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
Amortized 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	914,834	% of Subtotal	68,424	846,410
Bureau of Reclamation O&M	11,517,000	Generation	11,517,000	0
Purchase Power	4,900,000	Gen & Tran	3,000,000	1,900,000
Capitalized Movable Equipment	1,236,552	% of Subtotal	92,486	1,144,066
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,959,038)	Transmission	(2,091)	(1,956,947)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	403,396	Generation	403,396	0
Principal/Interest Payments - Western	26,858,296	Transmission	0	26,858,296
Total Annual Gross Expenses	<u>80,705,544</u>		<u>17,834,192</u>	<u>62,871,352</u>
	100%		22.1%	77.9%
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	74,942,170		17,584,192	57,357,978
Interest Credits	0		0	0
Carryover Application	(5,007,900)		(1,124,922)	(3,882,978)
Total Credits & Carryover	<u>(5,007,900)</u>		<u>(1,124,922)</u>	<u>(3,882,978)</u>
Revenue Requirement	69,934,271		16,459,270	53,475,000



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Amortized Generation Replacements**

FY2022

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



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FY2023

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>37,585,678</u>		<u>2,809,700</u>	<u>34,775,978</u>
	100%		7.5%	92.5%
Western General Expenses	914,834	% of Subtotal	68,424	846,410
Bureau of Reclamation O&M	11,803,000	Generation	11,803,000	0
Purchase Power	4,900,000	Gen & Tran	3,000,000	1,900,000
Capitalized Movable Equipment	1,236,552	% of Subtotal	92,486	1,144,066
Multi-Project (SCADA, Mead, Phoenix Service Center)	(1,931,064)	Transmission	(2,091)	(1,928,973)
Bureau of Reclamation Replacements	0	Generation	0	0
Principal/Interest Payments - Reclamation	469,146	Generation	469,146	0
Principal/Interest Payments - Western	28,156,027	Transmission	0	28,156,027
Total Annual Gross Expenses	<u>83,134,174</u>		<u>18,240,665</u>	<u>64,893,508</u>
	100%		21.9%	78.1%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	1,957,487	Transmission	0	1,957,487
Losses	1,957,486	Transmission	0	1,957,486
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>5,428,347</u>		<u>250,000</u>	<u>5,178,347</u>
	100%		4.6%	95.4%
Expenses Less Other Revenues	77,705,827		17,990,665	59,715,161
Interest Credits	0		0	0
Carryover Application	(7,771,556)		(1,531,395)	(6,240,161)
Total Credits & Carryover	<u>(7,771,556)</u>		<u>(1,531,395)</u>	<u>(6,240,161)</u>
Revenue Requirement	69,934,271		16,459,270	53,475,000



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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

