

**Boulder Canyon Project  
FY18 Base Charge vs. Actuals**

	FY18 Base Charge	FY18 Actuals	Change
<b>Reclamation</b>			
Operations	\$ 7,146,000	\$ 7,644,674	\$ 498,674
Maintenance	17,086,000	17,385,948	299,948
A&GE	20,751,000	18,887,606	(1,863,394)
Extraordinary Maintenance	4,669,000	4,492,542	(176,458)
<b>O&amp;M</b>	<b>49,652,000</b>	<b>48,410,770</b>	<b>(1,241,230)</b>
Replacements	7,754,000	9,968,127	2,214,127
<b>OM&amp;R</b>	<b>57,406,000</b>	<b>58,378,897</b>	<b>972,897</b>
Post Retirement Benefits (PRB)	1,569,078	2,230,616	661,538
<b>OM&amp;R w/PRB</b>	<b>58,975,078</b>	<b>60,609,513</b>	<b>1,634,435</b>
<b>WAPA</b>			
Facility Expenses	3,192,044	3,107,492	(84,552)
Systemwide Expenses	5,774,672	4,620,533	(1,154,139)
<b>O&amp;M</b>	<b>8,966,716</b>	<b>7,728,025</b>	<b>(1,238,691)</b>
Replacements	200,000	836,371	636,371
<b>OM&amp;R</b>	<b>9,166,716</b>	<b>8,564,396</b>	<b>(602,320)</b>
Post Retirement Benefits (PRB)	196,470	310,966	114,496
<b>OM&amp;R w/PRB</b>	<b>9,363,186</b>	<b>8,875,362</b>	<b>(487,824)</b>
<b>Total O&amp;M w/PRB</b>	<b>60,584,264</b>	<b>59,516,748</b>	<b>(1,067,516)</b>
<b>Total OM&amp;R w/PRB</b>	<b>68,338,264</b>	<b>69,484,875</b>	<b>1,146,611</b>
<b>Other Expense</b>			
Visitor Services	8,765,000	9,037,214	272,214
Payments to States - Reclamation	600,000	600,000	-
Debt Service Investments - Interest	433,661	432,122	(1,539)
Other Interest (CME and Warehouse)	17,024	31,281	14,257
Debt Service Investments - Principal Pmt.	537,966	541,245	3,279
Working Capital Collection	15,000,000	15,000,000	-
<b>Other Expense</b>	<b>25,353,651</b>	<b>25,641,862</b>	<b>288,211</b>
<b>Total Expense</b>	<b>93,691,915</b>	<b>95,126,737</b>	<b>1,434,822</b>
<b>Prior Year Carryover</b>	<b>-</b>	<b>11,885,531</b>	<b>11,885,531</b>
<b>Other Revenue</b>			
Reclamation	15,000,000	15,043,084	43,084
WAPA	1,201,722	1,720,001	518,279
<b>Other Revenue</b>	<b>16,201,722</b>	<b>16,763,085</b>	<b>561,363</b>
<b>Water Sales Revenue</b>	<b>580,000</b>	<b>647,468</b>	<b>67,468</b>
<b>Base Charge</b>	<b>\$ 76,910,193</b>	<b>\$ 65,830,653</b>	<b>\$ (11,079,540)</b>
<b>Cash Available</b>	<b>-</b>	<b>11,079,540</b>	
Less Change in UDO's	-	1,054,177	
Less Net Change in AR	-	663,963	
<b>FY18 Carryover</b>	<b>\$ -</b>	<b>\$ 9,361,400</b>	

## Boulder Canyon Project FY18 Base Charge vs. Actuals

### **Reclamation's Narrative**

Operations: Increased expenditures primarily due to higher than anticipated water scheduling and Region/Denver/Other offices costs.

Maintenance: Increased expenditures primarily due to FY17 unobligated funds (Multi-year Project Funds or MYPF) which were needed to accomplish work in FY18 for services and equipment.

A&GE: Decreased expenditures primarily due to reprogrammed funds for Maintenance and Replacement projects; in addition to lower than anticipated costs for services and equipment.

Extraordinary Maintenance: Decreased expenditures primarily due to year-end contracts not awarded or expensed.

Replacements: Increased expenditures primarily due to FY17 MYPF to accomplish work in FY18 including the Elevator Motor and Controller (\$1.5M) and Governor Oil Pump (\$1.1M) projects.

Visitor Services: Increased expenditures primarily due to FY17 MYPF needed to accomplish work in FY18 for Hoover Visitor Center remodel.

### **WAPA's Narrative**

Systemwide Expenses: Decreased expenditures primarily due to a change in allocation methodology for Information Technology costs.

Replacements: Increased expenditures primarily due to the Hoover-Mead Transmission Line Hardware Replacement project delays - covered by prior year undelivered orders.

**Boulder Canyon Project  
FY19 Base Charge vs. Revised Budget**

	FY19 Base Charge	Revised FY19 Budget Est.	Change
<b>Reclamation</b>			
Operations	\$ 8,048,000	\$ 8,053,500	\$ 5,500
Maintenance	17,273,000	17,626,000	353,000
A&GE	20,789,000	20,984,200	195,200
Extraordinary Maintenance	10,712,000	14,132,814	3,420,814
<b>O&amp;M</b>	<b>56,822,000</b>	<b>60,796,514</b>	<b>3,974,514</b>
Replacements	2,984,000	6,703,037	3,719,037
<b>OM&amp;R</b>	<b>59,806,000</b>	<b>67,499,551</b>	<b>7,693,551</b>
Post Retirement Benefits (PRB)	1,581,283	1,581,283	-
<b>OM&amp;R w/PRB</b>	<b>61,387,283</b>	<b>69,080,834</b>	<b>7,693,551</b>
<b>WAPA</b>			
Facility Expenses	2,395,875	2,395,875	-
Systemwide Expenses	6,362,118	6,362,118	-
<b>O&amp;M</b>	<b>8,757,993</b>	<b>8,757,993</b>	<b>-</b>
Replacements	400,000	400,000	-
<b>OM&amp;R</b>	<b>9,157,993</b>	<b>9,157,993</b>	<b>-</b>
Post Retirement Benefits (PRB)	200,455	200,455	-
<b>OM&amp;R w/PRB</b>	<b>9,358,448</b>	<b>9,358,448</b>	<b>-</b>
<b>Total O&amp;M w/PRB</b>	<b>67,761,731</b>	<b>71,736,245</b>	<b>3,974,514</b>
<b>Total OM&amp;R w/PRB</b>	<b>70,745,731</b>	<b>78,439,282</b>	<b>7,693,551</b>
<b>Other Expense</b>			
Visitor Services	9,063,000	10,345,708	1,282,708
Payments to States - Reclamation	600,000	600,000	-
Debt Service Investments - Interest	420,066	420,066	-
Other Interest (CME and Warehouse)	20,703	20,703	-
Debt Service Investments - Principal Pmt.	557,482	557,482	-
<b>Subtotal Other Annual Expense</b>	<b>10,661,251</b>	<b>11,943,959</b>	<b>1,282,708</b>
<b>Total Expense</b>	<b>81,406,982</b>	<b>90,383,241</b>	<b>8,976,259</b>
<b>Prior Year Carryover</b>	<b>-</b>	<b>9,361,400</b>	<b>9,361,400</b>
<b>Other Revenue</b>			
Reclamation	10,000,000	10,000,000	-
WAPA	1,115,325	1,115,325	-
<b>Other Revenue</b>	<b>11,115,325</b>	<b>11,115,325</b>	<b>-</b>
<b>Water Sales Revenue</b>	<b>550,000</b>	<b>550,000</b>	<b>-</b>
<b>Base Charge</b>	<b>\$ 69,741,657</b>	<b>\$ 69,356,516</b>	<b>\$ (385,141)</b>
<b>FY19 Carryover</b>	<b>\$ -</b>	<b>\$ 385,141</b>	

**Boulder Canyon Project  
FY19 Base Charge vs. Revised Budget**

**Reclamation's Narrative**

Maintenance: Increased expenditures due to carryover of FY18 unobligated funds (Multi-year Project Funds or MYPF) needed to purchase equipment and complete work in FY19.

A&GE: Increased expenditures due to carryover of FY18 MYPF needed to accomplish work in FY19.

Extraordinary Maintenance: Increased expenditures due to carryover of FY18 MYPF needed to accomplish work in FY19 for several projects including Power Plant Piping Management Plan (\$448k), Fire Piping Plan (\$485k), Crane Inspection and Repair (\$445k), Turbine Pipe Area Machining (\$710k), and Cableway Cradle Pit Parking Area (\$400k).

Replacements: Increased expenditures due to carryover of FY18 MYPF needed to accomplish work in FY19 for several projects including Cylinder Gate Stems (\$1.6M), Fiber Optic Cable Paths (\$714K), 16kV Generator Breaker (\$535k), and 480 Volt Switchgear (\$565k).

Visitor Services: Increased expenditures primarily due to carryover of FY18 MYPF that are needed to complete

**WAPA's Narrative**

There are no revisions to WAPA's budget for FY19

**Boulder Canyon Project**  
**FY19 Base Charge vs. Proposed FY20 Base Charge**

	FY19 Base Charge	Proposed FY20 Base Charge	Change
<b>Reclamation</b>			
Operations	\$ 8,048,000	\$ 8,425,000	\$ 377,000
Maintenance	17,273,000	17,278,000	5,000
A&GE	20,789,000	22,643,000	1,854,000
Extraordinary Maintenance	10,712,000	10,717,000	5,000
<b>O&amp;M</b>	<b>56,822,000</b>	<b>59,063,000</b>	<b>2,241,000</b>
Replacements	2,984,000	4,384,000	1,400,000
<b>OM&amp;R</b>	<b>59,806,000</b>	<b>63,447,000</b>	<b>3,641,000</b>
Post Retirement Benefits (PRB)	1,581,283	1,751,851	170,568
<b>OM&amp;R w/PRB</b>	<b>61,387,283</b>	<b>65,198,851</b>	<b>3,811,568</b>
<b>WAPA</b>			
Facility Expenses	2,395,875	2,491,204	95,329
Systemwide Expenses	6,362,118	5,816,002	(546,116)
<b>O&amp;M</b>	<b>8,757,993</b>	<b>8,307,206</b>	<b>(450,787)</b>
Replacements	400,000	208,000	(192,000)
<b>OM&amp;R</b>	<b>9,157,993</b>	<b>8,515,206</b>	<b>(642,787)</b>
Post Retirement Benefits (PRB)	200,455	230,308	29,853
<b>OM&amp;R w/PRB</b>	<b>9,358,448</b>	<b>8,745,514</b>	<b>(612,934)</b>
<b>Total O&amp;M w/PRB</b>	<b>67,761,731</b>	<b>69,560,365</b>	<b>1,798,634</b>
<b>Total OM&amp;R w/PRB</b>	<b>70,745,731</b>	<b>73,944,365</b>	<b>3,198,634</b>
<b>Other Expense</b>			
Visitor Services	9,063,000	9,529,000	466,000
Payments to States - Reclamation	600,000	600,000	-
Debt Service Investments - Interest	420,066	403,342	(16,724)
Other Interest (CME and Warehouse)	20,703	24,922	4,219
Debt Service Investments - Principal Pmt.	557,482	574,207	16,725
<b>Other Expense</b>	<b>10,661,251</b>	<b>11,131,470</b>	<b>470,219</b>
<b>Total Expense</b>	<b>81,406,982</b>	<b>85,075,835</b>	<b>3,668,853</b>
<b>Prior Year Carryover</b>	<b>-</b>	<b>385,141</b>	<b>385,141</b>
<b>Other Revenue</b>			
Reclamation	10,000,000	15,000,000	5,000,000
WAPA	1,115,325	1,211,292	95,967
<b>Other Revenue</b>	<b>11,115,325</b>	<b>16,211,292</b>	<b>5,095,967</b>
<b>Water Sales Revenue</b>	<b>550,000</b>	<b>550,000</b>	<b>-</b>
<b>Base Charge</b>	<b>\$ 69,741,657</b>	<b>\$ 67,929,402</b>	<b>\$ (1,812,255)</b>

**Boulder Canyon Project**  
**FY19 Base Charge vs. Proposed FY20 Base Charge**

**Reclamation's Narrative**

Operations: Increased estimate primarily due to salaries (\$87k), overhead (\$128k) and SCADA Cisco IE 3000 replacement (\$115k).

A&GE: Increased estimate primarily due to salaries (\$610k), security contract (\$255k), new Information Technology (IT) application training, and IT server and computer replacements.

Replacements: Increased primarily due to new contract work for the following projects: Cylinder Gate Stem Evaluation & Replacement (\$1.7M), Segmented Girder Bridge Joint Replacement, and A9 Overhaul.

Visitor Services: Increased estimate primarily due to salaries (\$122k), overhead (\$219k) and various service contracts including the ticketing and parking contract (\$100k).

Other Revenue: Visitor Services increased revenue estimate by \$5M due to completion of Hoover Visitor Center remodel.

**WAPA's Narrative**

Facility Expenses: Increased primarily due to preventative maintenance costs for the Phoenix Service Center (\$95k).

Systemwide Expenses: Decreased primarily due to lower budgeted costs for System Operations (\$325k) and Power Marketing (\$66k)

Replacements: Reduced placeholder value until specific projects are identified (\$192k).