Chandler Powerplant
Yakima Project

Ancillary Services

<table>
<thead>
<tr>
<th>Chandler Ancillary Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spinning Reserve</td>
</tr>
<tr>
<td>Non-Spinning Reserve</td>
</tr>
<tr>
<td>Replacement Reserve</td>
</tr>
<tr>
<td>Regulation/Load Following</td>
</tr>
<tr>
<td>Black Start</td>
</tr>
<tr>
<td>Voltage Support</td>
</tr>
</tbody>
</table>

Black start possible, but it would never be done because of power line constraints.

Generators

<table>
<thead>
<tr>
<th>Chandler Generators</th>
<th>Existing Number and Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit #</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2 units</td>
</tr>
</tbody>
</table>
Chandler Powerplant
10-30 MW

Generation

Chandler Fiscal Year Net Generation

Chandler Monthly Net Generation

Chandler Water Supply
Prime Laboratory Benchmarks

Benchmark 1
Wholesale Firm Rate

Benchmark 2
Reclamation’s Production Cost as Percentage of Wholesale Firm Rate
Benchmark 3
Production Cost

Chandler Powerplant
10-30 MW

Chandler Operation Costs

Chandler Maintenance Costs

Chandler Operation Costs
Fiscal Year 2007

Chandler Maintenance Costs
Fiscal Year 2007

Payroll
Benefits
Other
Supplies
Admin

Payroll
Benefits
Other
Supplies
Admin

Travel

Other
11%

Other
71%

Benefits
3%

Benefits
3%

Supplies
2%

Other
3%

Admin
9%

Admin
22%

Other
11%

Benefits
10%

Benefits
10%

Supplies
3%

Other
3%

Admin
9%

Admin
22%
Benchmark 3
Production Cost

Chandler Powerplant
10-30 MW

Fiscal Year 2007
Total Production Costs
External Comparison

Chandler
Operation and Maintenance Costs

Chandler
Operation and Maintenance Costs
Fiscal Year 2007

Fiscal Year 2007
Total Production Costs
External Comparison

Chandler
Operation and Maintenance Costs

Chandler
Operation and Maintenance Costs
Fiscal Year 2007

Fiscal Year 2007
Total Production Costs
External Comparison

Fiscal Year 2007
Total Production Costs
External Comparison
# Benchmark 4

## Workforce Deployment

### Chandler FY 2007 Equivalent Work Staffing Year Levels

<table>
<thead>
<tr>
<th></th>
<th>Equivalent Work Year Staffing Charged to Powerplant</th>
<th>Leave Additive</th>
<th>Denver and Washington Equivalent Work Year Staffing Additive</th>
<th>Total Equivalent Work Year Allocated to Powerplant</th>
<th>Total Equivalent Staffing Work Year per Generating Unit</th>
<th>Total Equivalent Work Year Staffing per Megawatt</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>0.34</td>
<td>0.04</td>
<td>0.04</td>
<td>0.42</td>
<td>0.21</td>
<td>0.03</td>
</tr>
<tr>
<td>Operation</td>
<td>1.64</td>
<td>0.17</td>
<td>0.00</td>
<td>1.81</td>
<td>0.91</td>
<td>0.15</td>
</tr>
<tr>
<td>Maintenance</td>
<td>2.04</td>
<td>0.22</td>
<td>0.00</td>
<td>2.26</td>
<td>1.13</td>
<td>0.19</td>
</tr>
<tr>
<td>Total Staffing</td>
<td>4.03</td>
<td>0.43</td>
<td>0.04</td>
<td>4.49</td>
<td>2.24</td>
<td>0.37</td>
</tr>
</tbody>
</table>

### Chandler Equivalent Work Year per Unit

- **Maintenance**
- **Operation**
- **General**

### Chandler O&M Equivalent Work Years per Unit

### Chandler O&M Equivalent Work Years per MW
Benchmark 5
Availability Factor

Chandler Powerplant
10-30 MW

Benchmark 6
Forced Outage Factor
Benchmark 7
Scheduled Outage Factor

Chandler
Scheduled Outage Factor

Starts

Chandler
Average Starts per Unit

Fiscal Years
<table>
<thead>
<tr>
<th>Fiscal Year 2007</th>
<th>Chandler Powerplant</th>
<th>Reclamation Average 10-30 MW Group</th>
<th>Total Reclamation Average</th>
<th>Industry Average</th>
<th>Best Performers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholesale Firm Rate Mills/kWh</td>
<td>24.8</td>
<td>Not Applicable</td>
<td>*22.45</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Production Cost as Percentage of Wholesale Firm Rate</td>
<td>0.07%</td>
<td>Not Applicable</td>
<td>12.1%</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>O&amp;M Cost $/MWh</td>
<td>76.91</td>
<td>16.40</td>
<td>2.76</td>
<td>***163.95</td>
<td>1.00</td>
</tr>
<tr>
<td>O&amp;M Costs $/MW</td>
<td>165,987</td>
<td>62,731</td>
<td>7,847</td>
<td>***40,852</td>
<td>2,897</td>
</tr>
<tr>
<td>O&amp;M Equiv Work Year per MW</td>
<td>0.34</td>
<td>0.22</td>
<td>0.03</td>
<td>Not Available</td>
<td>0.00</td>
</tr>
<tr>
<td>Availability Factor</td>
<td>51.9</td>
<td>88.5</td>
<td>82.3</td>
<td>**88.64</td>
<td>98.54</td>
</tr>
<tr>
<td>Forced Outage Factor</td>
<td>0.0</td>
<td>0.1</td>
<td>2.6</td>
<td>**2.61</td>
<td>0.00</td>
</tr>
<tr>
<td>Scheduled Outage Factor</td>
<td>48.1</td>
<td>11.4</td>
<td>15.1</td>
<td>**8.74</td>
<td>0.00</td>
</tr>
</tbody>
</table>

*Weighted by Net Generation
**2006 NERC Average
*** Energy Information Administration Data