Appendix L

Energy Output Tables
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Electricity Consumption from Streetcar Operations for the IOS Alternatives

<table>
<thead>
<tr>
<th>Distance</th>
<th>Consumption</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 miles per hour</td>
<td>187.5 kW per hour</td>
<td>per streetcar operation</td>
</tr>
<tr>
<td>20 miles per hour</td>
<td>9.375 kWh per mile</td>
<td>backcheck - max</td>
</tr>
</tbody>
</table>

- 11250 peak all streetcars - avg. weekday
- 4500 off peak
- 15750

5,307,750 Streetcar Alternative 1 (10/15 headways) backcheck - max

Per LTK Ops Memo

- 7.9 miles per roundtrip
- 12 trips per peak hour (10-minute peak hour headways)
- 8 trips (15-minute peak hour headways)
- 12 peak hours per day
- 6 off peak hours per day
- 144 peak hour roundtrips per weekday
- 48 off peak hour roundtrips per weekday
- 192 trips per weekday annualization factor per LTK Ops. Memo

1516.8 vmt per weekday

511,162 VMT (annual) for the full system Streetcar Alternative 1 (10/15 headways)

Source: Salt Lake City, UT Tiger Grant App.

Streetcar

8.1 kWh per vehicle mile

12286 kWh per day in revenue operation

4,140,409 Streetcar Alternative 1 (10/15 headways)

Source:

South Sacramento (LRT) 7.5 kWh per vehicle mile

Corridor Phase II FEIS/FEIR 3,833,712 Streetcar Alternative 1 (10/15 headways)

20697.8 20,697,802,640 Orange County Electricity Consumption 0.02%
### Electricity Consumption from Streetcar Operations for the IOS Alternatives

<table>
<thead>
<tr>
<th>250</th>
<th>750</th>
<th>187500</th>
<th>187.5 KW per hour of streetcar operation (per streetcar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 miles per hour</td>
<td>9.375 kWh per mile</td>
<td>backcheck - max</td>
<td></td>
</tr>
</tbody>
</table>

11250 peak all streetcars - avg. weekday backcheck - max
4500 off peak
15750

5,307,750 Streetcar Alternative 1 (10/15 headways) backcheck - max

per LTK Ops Memo

- 2.28 miles per roundtrip
- 12 trips per peak hour (10-minute peak hour headways)
- 8 trips (15-minute peak hour headways)
- 12 peak hours per day
- 6 off peak hours per day
- 144 peak hour roundtrips per weekday
- 48 off peak hour roundtrips per weekday
- 192 trips per weekday annualization factor per LTK Ops. Memo

437.76 vmt per weekday

**147,525** VMT (annual) for the full system

**Streetcar Alternative 1 (10/15 headways)**

*Source: Salt Lake City, UT Tiger Grant App.*

Streetcar

- **8.1 kWh per vehicle mile**
- **3546 kWh per day in revenue operation**

**1,194,953**

**Streetcar Alternative 1 (10/15 headways)**

*Source: South Sacramento (LRT)*

**Corridor Phase II FEIS/FEIR**

- **7.5 kWh per vehicle mile**
- **1,106,438 Streetcar Alternative 1 (10/15 headways)**

**20697.8 20,697,802,640** Orange County Electricity Consumption 0.01%