

APPENDIX E

ENERGY CONSUMPTION ANALYSIS

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**DANA POINT HARBOR HOTELS CALEEMOD
PROJECT BUILDOUT SENARIO**

Dana Point Harbor Hotels - South Coast AQMD Air District, Annual

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.551582 | 0.041972 | 0.204917 | 0.113538 | 0.013798 | 0.005777 | 0.022002 | 0.036198 | 0.002156 | 0.001623 | 0.004914 | 0.000716 | 0.000809 |
| Hotel | 0.551582 | 0.041972 | 0.204917 | 0.113538 | 0.013798 | 0.005777 | 0.022002 | 0.036198 | 0.002156 | 0.001623 | 0.004914 | 0.000716 | 0.000809 |
| Parking Lot | 0.551582 | 0.041972 | 0.204917 | 0.113538 | 0.013798 | 0.005777 | 0.022002 | 0.036198 | 0.002156 | 0.001623 | 0.004914 | 0.000716 | 0.000809 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 502.3115 | 502.3115 | 0.0302 | 6.2400e-003 | 504.9264 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 502.3115 | 502.3115 | 0.0302 | 6.2400e-003 | 504.9264 |
| NaturalGas Mitigated | 0.0336 | 0.3054 | 0.2566 | 1.8300e-003 | | 0.0232 | 0.0232 | | 0.0232 | 0.0232 | 0.0000 | 332.5007 | 332.5007 | 6.3700e-003 | 6.1000e-003 | 334.4766 |
| NaturalGas Unmitigated | 0.0336 | 0.3054 | 0.2566 | 1.8300e-003 | | 0.0232 | 0.0232 | | 0.0232 | 0.0232 | 0.0000 | 332.5007 | 332.5007 | 6.3700e-003 | 6.1000e-003 | 334.4766 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 1.94869e+006 | 0.0105 | 0.0955 | 0.0802 | 5.7000e-004 | | 7.2600e-003 | 7.2600e-003 | | 7.2600e-003 | 7.2600e-003 | 0.0000 | 103.9894 | 103.9894 | 1.9900e-003 | 1.9100e-003 | 104.6074 |
| Hotel | 4.28214e+006 | 0.0231 | 0.2099 | 0.1763 | 1.2600e-003 | | 0.0160 | 0.0160 | | 0.0160 | 0.0160 | 0.0000 | 228.5113 | 228.5113 | 4.3800e-003 | 4.1900e-003 | 229.8693 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0336 | 0.3054 | 0.2566 | 1.8300e-003 | | 0.0232 | 0.0232 | | 0.0232 | 0.0232 | 0.0000 | 332.5007 | 332.5007 | 6.3700e-003 | 6.1000e-003 | 334.4766 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hotel | 1.94869e+006 | 0.0105 | 0.0955 | 0.0802 | 5.7000e-004 | | 7.2600e-003 | 7.2600e-003 | | 7.2600e-003 | 7.2600e-003 | 0.0000 | 103.9894 | 103.9894 | 1.9900e-003 | 1.9100e-003 | 104.6074 |
| Hotel | 4.28214e+006 | 0.0231 | 0.2099 | 0.1763 | 1.2600e-003 | | 0.0160 | 0.0160 | | 0.0160 | 0.0160 | 0.0000 | 228.5113 | 228.5113 | 4.3800e-003 | 4.1900e-003 | 229.8693 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0336 | 0.3054 | 0.2566 | 1.8300e-003 | | 0.0232 | 0.0232 | | 0.0232 | 0.0232 | 0.0000 | 332.5007 | 332.5007 | 6.3700e-003 | 6.1000e-003 | 334.4766 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 618816 | 135.4976 | 8.1400e-003 | 1.6800e-003 | 136.2030 |
| Hotel | 1.13024e+006 | 247.4793 | 0.0149 | 3.0800e-003 | 248.7676 |
| Hotel | 514340 | 112.6212 | 6.7700e-003 | 1.4000e-003 | 113.2075 |
| Parking Lot | 30660 | 6.7134 | 4.0000e-004 | 8.0000e-005 | 6.7483 |
| Total | | 502.3114 | 0.0302 | 6.2400e-003 | 504.9264 |

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5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 618816 | 135.4976 | 8.1400e-003 | 1.6800e-003 | 136.2030 |
| Hotel | 1.13024e+006 | 247.4793 | 0.0149 | 3.0800e-003 | 248.7676 |
| Hotel | 514340 | 112.6212 | 6.7700e-003 | 1.4000e-003 | 113.2075 |
| Parking Lot | 30660 | 6.7134 | 4.0000e-004 | 8.0000e-005 | 6.7483 |
| Total | | 502.3114 | 0.0302 | 6.2400e-003 | 504.9264 |

6.0 Area Detail

6.1 Mitigation Measures Area