

APPENDIX E

NOISE IMPACT CALCULATIONS

[This page intentionally left blank.]

APPENDIX E

TABLE E-1

Construction Noise Impact Estimates

| Distance from Construction Activities | Estimated Noise Levels (dBA) |
|--|-------------------------------------|
| 50 | 85 |
| 100 | 79 |
| 200 | 73 |
| 400 | 67 |
| 500 ⁽¹⁾ | 65.5 |
| 600 | 64 |
| 800 | 61 |
| 1,600 | 55 |
| 2,400 | 52 |
| 2,800 ⁽²⁾ | 50.5 |
| 3,200 | 49 |
| 4,800 | 46 |
| 6,400 | 43 |

- (1) Distance to closest industrial receptor (Air Products Hydrogen Plant).
 (2) Distance to closest resident (sensitive receptor).

TABLE E-2

Operation Noise Impact Estimates

| Distance from Cogen | Estimated Noise Levels (dBA) |
|----------------------------|-------------------------------------|
| 25 | 85 |
| 50 | 80 |
| 100 | 74 |
| 200 | 68 |
| 400 | 62 |
| 500 ⁽¹⁾ | 60.5 |
| 600 | 59 |
| 800 | 56 |
| 1,600 | 50 |
| 2,400 | 47 |
| 2,800 ⁽²⁾ | 45.5 |
| 3,200 | 44 |

- (1) Distance to closest industrial receptor (Air Products Hydrogen Plant).
 (2) Distance to closest resident (sensitive receptor).

APPENDIX E

TABLE E-3

Construction Vibration Impact Estimates

| Distance from Construction Activities | Construction Equipment | | | | |
|--|-------------------------------|-------------------------|----------------------|-------------------|------------------------|
| | Pile Driver | Large Bulldozers | Loaded Trucks | Jackhammer | Small Bulldozer |
| 25 | 100 | 87 | 86 | 79 | 58 |
| 50 | 94 | 81 | 80 | 73 | 52 |
| 100 | 88 | 75 | 74 | 67 | 46 |
| 200 | 82 | 69 | 68 | 61 | 40 |
| 400 | 76 | 63 | 62 | 55 | 34 |
| 800 | 70 | 57 | 56 | 49 | 28 |
| 1,600 | 64 | 51 | 50 | 43 | 22 |
| 2,400 | 61 | 48 | 47 | 40 | 19 |
| 2,800 ⁽²⁾ | 59.5 | 46.5 | 45.5 | 38.5 | 17.5 |
| 3,200 | 58 | 45 | 44 | 37 | 16 |

(1) Distance to closest resident (sensitive receptor). Note there is no CEQA significance threshold for industrial sources.