**Section 241.APPENDIX A Emission Standards for Clean Fuel Vehicles**

**Section 241.TABLE A Low Emission Vehicle (LEV) Standards for Light-Duty Clean Fuel Vehicles (g/mi)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| LIGHT-DUTY  VEHICLE WEIGHT | POLLUTANT: | | | | |
|  | NMOG | CO | NOX | HCHO | PM1 |
| ALL LDV, LDT  ≤ 6000 GVWR  ≤ 3750 LVW  50,000 MILES  100,000 MILES | 0.075  0.090 | 3.4  4.2 | 0.2  0.3 | 0.015  0.018 | ---  0.80 |
| LDT ≤ 6000 GVWR  > 3750 LVW  ≤ 5750 LVW  50,000 MILES  100,000 MILES | 0.100  0.130 | 4.4  5.5 | 0.4  0.5 | 0.018  0.023 | ---  0.08 |
| LDT >6000 GVWR  ≤ 3750 ALVW  50,000 MILES  100,000 MILES | 0.125  0.180 | 3.4  5.0 | 0.42  0.6 | 0.015  0.022 | ---  0.10 |
| LDT >6000 GVWR  >3750 ALVW  ≤ 5750 ALVW  50,000 MILES  120,000 MILES | 0.160  0.230 | 4.4  6.4 | 0.72  1.0 | 0.018  0.027 | ---  0.10 |
| LDT >6000 GVWR  >5750 ALVW  ≤ 8500 ALVW3  50,000 MILES  100,000 MILES | 0.195  0.280 | 5.0  7.3 | 1.12  1.5 | 0.022  0.032 | ---  0.12 |

1Applicable to diesel vehicles only

2Standards not applicable to diesel vehicles

3Option of certifying heavy-duty engines in vehicles up to 10,000 pounds GVWR using the light-duty truck (LDT) standards

**Section 241.APPENDIX A Emission Standards for Clean Fuel Vehicles**

**Section 241.TABLE B Ultra-Low Emission Vehicle (ULEV) Standards for Light-Duty Clean Fuel Vehicles (g/mi)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| LIGHT-DUTY  VEHICLE WEIGHT | POLLUTANT: | | | | |
|  | NMOG | CO | NOX | HCHO | PM1 |
| ALL LDV, LDT  ≤ 6000 GVWR  ≤ 3750 LVW  50,000 MILES  100,000 MILES | 0.040  0.055 | 1.7  2.1 | 0.2  0.3 | 0.008  0.011 | 0.08  0.04 |
| LDT ≤ 6000 GVWR  > 3750 LVW  ≤ 5750 LVW  50,000 MILES  100,000 MILES | 0.050  0.070 | 2.2  2.8 | 0.4  0.5 | 0.009  0.013 | 0.08  0.04 |
| LDT >6000 GVWR  ≤ 3750 ALVW  50,000 MILES  100,000 MILES | 0.075  0.107 | 1.7  2.5 | 0.2  0.32 | 0.008  0.012 | ---  0.04 |
| LDT >6000 GVWR  >3750 ALVW  ≤ 5750 ALVW  50,000 MILES  120,000 MILES | 0.100  0.143 | 2.2  3.2 | 0.4  0.52 | 0.009  0.013 | ---  0.05 |
| LDT >6000 GVWR  >5750 ALVW  ≤ 8500 ALVW3  50,000 MILES  100,000 MILES | 0.117  0.167 | 2.5  3.7 | 0.6  0.82 | 0.011  0.016 | ---  0.06 |

1Applicable to diesel vehicles only

2Standards not applicable to diesel vehicles

3Option of certifying heavy-duty engines in vehicles up to 10,000 pounds GVWR using the light-duty truck (LDT) standards

**Section 241.APPENDIX A Emission Standards for Clean Fuel Vehicles**

**Section 241.TABLE C NMOG Standards for Flexible-Fueled and Dual-Fueled Vehicles (g/mi)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | NMOG STANDARD1 |  |
| VEHICLE WEIGHT | | 50,000 MILE | 100,000 MILE |
| ALL LDV, LDT,  ≤ 6000 GVWR  ≤ 3750 LVW | | 0.075/0.125 | 0.09/0.156 |
| LDT | ≤ 6000 GVWR  >3750LVW  ≤ 5750 LVW | 0.100/0.160 | 0.130/0.200 |
| LDT | >6000 GVWR  ≤ 3750 ALVW | 0.125/0.250 | 0.180/0.360 |
| LDT | >6000 GVWR  >3750 ALVW  ≤ 5750 ALVW | 0.160/0.320 | 0.230/0.460 |
| LDT | >6000 GVWR  >5750 ALVW | 0.195/0.390 | 0.280/0.560 |

1The standards are presented for flexible-fueled and dual-fueled clean fuel vehicles when operating on clean alternative fuel and conventional fuel in the format "x/y" where x represents the NMOG standard when the vehicle is operated on a clean alternative fuel and y represents the NMOG standard when the vehicle is operated on a conventional fuel.

**Section 241.APPENDIX A Emission Standards for Clean Fuel Vehicles**

**Section 241.TABLE D Emission Standards for Model Year 1998 and Later Heavy-Duty Vehicles (g/bhp-hr)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| VEHICLE  TYPE | THC | NOX | NMHC  + NOX | CO | PM1 | OMHCE | HCHO |
| GASOLINE  ≤ 14,000 GVWR | 1.1 | 4.0 | --- | 14.4 | --- | 1.1 | --- |
| GASOLINE  > 14,000 GVWR | 1.9 | 4.0 | --- | 37.1 | --- | 1.9 | --- |
| DIESEL | 1.3 | 4.0 | --- | 15.5 | 0.10 | 1.3 | --- |
| LEV CERTIFIED  FUEL | 2 | 2 | 3.8 | 2 | 2 | 2 | --- |
| LEV CERTIFIED  CALIF. FUEL | 2 | 2 | 3.5 | 2 | 2 | 2 | --- |
| ULEV | 2 | 2 | 2.5 | 7.2 | 0.05 | 2 | 0.025 |
| ILEV | 2 | 2 | 2.5 | 14.4 | 0.10 | 2 | 0.025 |

1Standards for particulate matter (PM) apply only to diesel-fueled vehicles.

2HD CFVs must meet conventional vehicle standards for THC, NOx, CO, PM, and OMHCE