**CMAP FY 2018-2022 CMAQ PROJECT APPLICATION**

**DiReCT Emissions Reduction – EMISSIONS BENEFIT form**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PROJECT EMISSIONS BENEFIT DATA** | | Project Title: | | |
| Complete this section for each group of vehicles (type, engine, technology, etc.). Use additional sheets as needed. | | | | |
| Vehicle Type:  School Bus  Transit Bus  Refuse Hauler  Short Haul  Long Haul  Delivery Truck  (check one)  Emergency Vehicle  On-Highway  City/County Vehicle  Passenger Locomotive  Switch Engine  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ specify | | | | |
| Vehicle Size:  Class 2b (8,501 - 10,000 lbs.)  Class 3 (10,001 - 14,000 lbs.)  Class 4 (14,001 - 16,000 lbs.)  (check one)  Class 5 (16,001 - 19,500 lbs.)  Class 6 (19,501 - 26,000 lbs.)  Class 7 (26,001 - 33,000 lbs.)  Class 8a (33,001 - 60,000 lbs.)  Class 8b (60,001 and over)  School Bus  Transit Bus | | | | |
| Horsepower  0  1  3  6  11  16  25  40  50  75  175  (check one)  300  600  750  1000  1200  2000  3000 | | | | |
| Current Fuel Type:  LPG  LNG  CNG  Biodiesel 100  Biodiesel 20  Biodiesel 10  Biodiesel 5  (check one)  E85  Diesel, 3,400 ppm sulfur  Diesel, 500 ppm sulfur  Diesel, 15 ppm sulfur  Emulsion | | | | |
| Model Year (all vehicles in a group should have the same model year): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |
| Before project: Fuel Consumed (gallons per year of current fuel type for all vehicles in the group combined): \_\_\_\_\_\_\_\_\_\_\_ gallons | | | | |
| After project: Fuel Consumed (gallons per year of current fuel type for all vehicles in the group combined): \_\_\_\_\_\_\_\_\_\_\_ gallons | | | | |
| Before project Annual Vehicle Miles/vehicle in group: \_\_\_\_\_\_\_\_\_\_\_ miles Annual Idling Hours/vehicle in group: \_\_\_\_\_\_\_\_\_hours | | | | |
| After project Annual Vehicle Miles/vehicle in group: \_\_\_\_\_\_\_\_\_\_\_ miles Annual Idling Hours/vehicle in group: \_\_\_\_\_\_\_\_\_hours | | | | |
| Technology to be Applied | # veh | | Technology to be Applied | # veh |
| Diesel Oxidation Catalyst |  | | Recalibration |  |
| Diesel Oxidation Catalyst + Closed Crankcase Ventilation |  | | Selective Catalytic Reduction |  |
| Diesel Particulate Filter |  | | Exhaust Gas Recirculation + Diesel Particulate Filter |  |
| Hybrid Electric Replacement w/ Diesel Particulate Filter |  | | Emissions Control Devices |  |
| Partial Flow Filter |  | | Other |  |
| Compressed Natural Gas (CNG) Replacement |  | | Engine Repower |  |
| Lean NOx Catalyst/Diesel Particulate Filter |  | | Engine Replacement |  |
| Post-Implementation Fuel Type:  LPG  LNG  CNG  Biodiesel 100  Biodiesel 20  Biodiesel 10  Biodiesel 5  (check one)  E85  Diesel, 3,400 ppm sulfur  Diesel, 500 ppm sulfur  Diesel, 15 ppm sulfur (non-road only)  Emulsion  Electricity | | | | |
| Diesel Vehicle Replacement Applicants  Expected remaining life of vehicles being replaced (years):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |
| Total Number of Vehicles (all groups combined): \_\_\_\_\_\_\_\_\_\_\_\_\_ vehicles | | | | |
| Indicate on the map the location of where vehicles will be in service. | | | | |
| Time of day that vehicles will be in operation (hour): From\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_. | | | | |
| Ridership Demographics (If vehicle is for transit service):% over 65 in age \_\_\_\_\_\_\_\_, % under 5 in age \_\_\_\_\_\_\_\_\_,  median household income \_\_\_\_\_\_\_\_, % minority \_\_\_\_\_\_\_\_\_ | | | | |

|  |
| --- |
| **PROJECT DESCRIPTION** (Use this space to provide additional details on the project and include links or other reference to the US EPA/CARB certification or verification.) |
| 1. Please describe improvements. Include links or other reference to the US EPA/CARB certification or verification. |