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TO: George Lew, Chief
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FROM: Joe Guerrero, Manager
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Date: August 31, 2007

SUBJECT: 200 AND 100-VEHICLE MATRIX UPDATE

Both a 200-vehicle matrix and a 100-vehicle matrix were prepared to be representative of the miles driven by each model year and make of in-use vehicles in California in 2007. These matrices were prepared for use in the certification of vapor recovery systems in accordance with California Air Resources Board (ARB) Test Procedure 201.2A, Determination of Vehicle Matrix for Phase II Systems. The 2007 200-vehicle matrix is Table 1 and the 100-vehicle matrix is Table 2:

Model Years	Chrysler	Ford	G.M.	Toyota	Honda	Niss/Dat	VW/Volvo	others	Totals
2004-2007	4	6	9	10	5	3	4	7	48
2001-2003	3	7	7	6	4	3	2	6	38
1997-2000	3	8	7	6	4	2	2	5	37
1990-1996	3	8	8	6	5	1	3	5	39
1960-1989	3	7	11	4	2	3	3	5	38
Totals	16	36	42	32	20	12	14	28	200

Model Years	Chrysler	Ford	G.M.	Toyota	Honda	Niss/Dat	VW/Volvo	others	Totals
2004-2007	2	3	4	5	3	1	2	3	23
2001-2003	1	4	4	3	2	1	1	3	19
1997-2000	2	4	4	3	2	1	1	3	20
1990-1996	1	4	4	3	2	1	1	3	19
1960-1989	1	4	6	2	1	1	1	3	19
Totals	7	19	22	16	10	5	6	15	100

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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The above matrices were prepared from data for on-road passenger cars, light duty trucks and medium duty vehicles. It is estimated that light duty vehicles account for 53 percent of gasoline vehicle miles driven (VMT) on California roads, light duty trucks account for 36 percent, and medium duty vehicles account for 11 percent. Heavy duty vehicles, motorcycles, and all other vehicles are not accounted for in these percentages of VMT.

The matrices were determined from the following two data sets:

- (1) The report of the number of registered vehicles by model year and make as of the end of 2006 from the California Department of Motor Vehicles (DMV). Tuan Quan of the DMV's Information Systems Branch provided a printed copy of the report.
- (2) The projected vehicle populations and miles per day traveled by model year for light duty autos, light duty trucks and medium duty vehicles is from the ARB's Emission Factors Model (EMFAC2007), Version 2.3. Tom Scheffelin of ARB's Planning and Technical Support Division (PTSD) provided the EMFAC data.

If you have questions or need further information, please contact Frances Cameron via email at fcameron@arb.ca.gov or by phone at (916) 445-9314.

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