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TO: George Lew, Chief
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FROM: Frances Cameron

Date: May 2, 2008

SUBJECT: 2008 UPDATE of 200-, 100- and 50-VEHICLE MATRICES

A 200-vehicle matrix, as well as a 100-vehicle matrix and a 50-vehicle matrix, were prepared to be representative of the miles driven by each model year and make of in-use vehicles in California in 2008. These vehicle 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 2008 matrices are listed below as Tables 1, 2 and 3:

Table 1: 200 Vehicle Matrix for 2008									
Model Years	Chrysler	Ford	G.M.	Toyota	Honda	Niss/Dat	VW/Volvo	others	Totals
2005-2008	4	5	7	9	5	3	3	6	42
2002-2004	3	6	7	6	4	2	2	6	36
1998-2001	4	8	8	6	4	3	2	6	41
1991-1997	3	8	8	6	5	1	3	5	39
1961-1990	3	8	12	5	3	3	3	5	42
Totals	17	35	42	32	21	12	13	28	200

Table 2: 100 Vehicle Matrix for 2008									
Model Years	Chrysler	Ford	G.M.	Toyota	Honda	Niss/Dat	VW/Volvo	others	Totals
2005-2008	2	3	4	5	2	1	2	3	22
2002-2004	1	3	4	3	2	1	1	3	18
1998-2001	2	4	4	3	2	1	1	3	20
1991-1997	2	4	4	3	2	1	1	3	20
1961-1990	1	4	6	2	1	2	1	3	20
Totals	8	18	22	16	9	6	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>.

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Model Years	Chrysler	Ford	G.M.	Toyota	Honda	Niss/Dat	VW/Volvo	others	Totals
2005-2008	1	1	2	2	1	1	1	1	10
2002-2004	1	1	2	2	1	1	1	1	10
1998-2001	1	2	2	1	1	1	1	1	10
1991-1997	1	2	2	1	1	0	1	1	9
1961-1990	1	2	3	1	1	1	1	1	11
Totals	5	8	11	7	5	4	5	5	50

The above matrices were prepared from projections for on-road gasoline-powered light duty autos, light duty trucks (< 6,000 gross vehicle weight rating (GVWR)) and medium duty trucks (6,001-8500 GVWR). It is estimated that light duty autos account for 53 percent of gasoline vehicle miles (VMT) driven on California roads, light duty trucks account for 36 percent, and medium duty trucks account for 11 percent.

The matrices were determined from the following two reports:

- (1) The report of the number of registered vehicles by model year and make as of the end of 2007 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 statewide projected vehicle populations and miles traveled per day in 2008 by model year for the gasoline-powered vehicles listed above. Tom Scheffelin of ARB's Planning and Technical Support Division (PTSD) provided the report from ARB's Emission Factors Model (EMFAC2007), Version 2.3.

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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