APPENDIX C

MVEI7G MODELING PARAMETER INPUT FILES

EXHIBIT C1. 1999 MVEI7G MODELING PARAMETER INPUT FILE

FILE: HDVIM.99 (7/25/97) Dan Meszler, EEA

This file contains the coefficients for calculating the correction factors for heavy-duty trucks due to the Heavy-Duty Vehicle Smoke & Tampering Inspection Program, as well as, the correction factors for heavy-duty trucks and urban busses due to the use of clean diesel fuels.

These input data are derived from HDVIP TSD 1999 Scenario and reflect impacts predicted by modified Radian/EEA malperformance/repair model expressed in a format constrained by the EMFAC7G BER correction algorithm.

			********** The LAST YEAR in column 3 refers to **********								
			-------- model years ---------|---- calendar years ----|						model years	
			SMOKE ENFORCEMENT							CLEAN FUELS	
			==========							==========	
			|------ DTEML -------|							
VEH. TYPE	VEH. TECH	LAST YEAR	FR XXX.XX	TOG XXX.XX	NOx XXX.XX	PMEX XXX.XX	AVAL X.XX	BVAL XXX.XX	TARGET XXX.XX	NOx X.XX	PMEX X.XX
LHD	DSL	1965	42.09	46.54	0.19	53.61	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1966	41.90	46.62	0.19	53.66	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1967	41.71	46.71	0.19	53.71	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1968	41.52	46.79	0.19	53.77	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1969	41.32	46.88	0.18	53.82	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1970	41.11	46.98	0.18	53.88	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1971	40.89	47.08	0.18	53.94	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1972	40.67	47.18	0.18	54.01	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1973	40.44	47.29	0.17	54.07	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1974	40.20	47.40	0.17	54.14	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1975	39.95	47.52	0.17	54.22	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1976	39.69	47.65	0.16	54.30	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1977	39.42	47.78	0.16	54.38	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1978	39.14	47.92	0.16	54.47	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1979	38.85	48.07	0.15	54.56	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1980	38.54	48.23	0.15	54.66	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1981	38.21	48.40	0.15	54.77	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1982	37.87	48.58	0.14	54.88	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1983	37.51	48.77	0.14	55.01	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1984	37.12	48.98	0.13	55.14	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1985	36.71	49.20	0.13	55.29	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1986	36.27	49.45	0.12	55.45	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1987	35.80	49.72	0.11	55.62	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1988	35.30	49.97	0.90	55.78	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1989	34.74	50.30	0.90	56.00	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1990	34.14	50.68	0.91	56.25	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1991	34.46	68.31	8.73	83.08	0.00	0.00	0.00	0.87	0.69
LHD	DSL	1992	34.00	68.60	8.83	83.34	0.50	96.50	79.24	0.87	0.69
LHD	DSL	1993	33.53	68.90	8.93	83.61	1.00	96.50	79.24	0.87	0.69
LHD	DSL	1994	33.07	69.99	10.27	102.59	0.50	96.50	79.24	0.87	0.90
LHD	DSL	1995	32.61	70.32	10.38	102.91	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1996	32.15	70.67	10.50	103.23	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1997	31.69	71.02	10.62	103.57	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1998	31.22	71.38	10.74	103.92	0.50	96.50	79.24	0.87	0.90
LHD	DSL	1999	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90

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EXHIBIT C1. 1999 MVEI7G MODELING PARAMETER INPUT FILE
- Continuation -

LHD	DSL	2001	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2002	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2003	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2004	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2005	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2006	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2007	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2008	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2009	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2010	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
LHD	DSL	2050	31.22	71.38	10.74	103.92	1.00	96.50	79.24	0.87	0.90
MHD	DSL	1965	63.82	53.71	5.78	78.30	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1966	63.26	53.70	5.79	78.12	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1967	62.70	53.68	5.81	77.93	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1968	62.11	53.66	5.83	77.73	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1969	61.51	53.65	5.85	77.54	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1970	60.88	53.63	5.87	77.34	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1971	60.24	53.61	5.89	77.13	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1972	59.57	53.60	5.91	76.92	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1973	58.88	53.58	5.94	76.70	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1974	58.16	53.57	5.96	76.48	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1975	57.41	53.55	5.99	76.25	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1976	56.63	53.53	6.01	76.02	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1977	55.82	53.52	6.04	75.78	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1978	54.98	53.50	6.07	75.53	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1979	54.09	53.49	6.10	75.27	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1980	53.16	53.48	6.13	75.00	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1981	52.19	53.46	6.17	74.73	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1982	51.16	53.45	6.21	74.44	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1983	50.07	53.44	6.25	74.15	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1984	48.92	53.44	6.29	73.84	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1985	47.69	53.43	6.34	73.52	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1986	46.38	53.43	6.39	73.18	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1987	44.97	53.43	6.45	72.83	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1988	43.44	51.19	6.76	67.54	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1989	41.79	51.21	6.83	67.26	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1990	39.97	51.25	6.92	66.95	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1991	40.93	69.18	9.55	88.41	0.00	0.00	0.00	0.87	0.69
MHD	DSL	1992	39.54	69.03	9.65	87.97	0.50	92.07	79.24	0.87	0.69
MHD	DSL	1993	38.15	68.88	9.75	87.54	1.00	92.07	79.24	0.87	0.69
MHD	DSL	1994	36.77	69.46	10.72	106.37	0.50	92.07	79.24	0.87	0.90
MHD	DSL	1995	35.38	69.33	10.84	105.64	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1996	34.00	69.21	10.95	104.94	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1997	32.61	69.09	11.07	104.25	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1998	31.22	68.99	11.19	103.58	0.50	92.07	79.24	0.87	0.90
MHD	DSL	1999	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2000	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2001	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2002	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2003	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2004	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2005	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2006	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2007	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90

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- Continuation -

MHD	DSL	2001	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2010	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
MHD	DSL	2050	31.22	68.99	11.19	103.58	1.00	92.07	79.24	0.87	0.90
HHD	DSL	1965	78.22	50.52	4.89	89.98	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1966	77.42	50.44	4.90	89.52	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1967	76.61	50.37	4.91	89.05	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1968	75.77	50.30	4.92	88.58	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1969	74.90	50.22	4.93	88.09	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1970	74.01	50.14	4.94	87.60	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1971	73.08	50.06	4.95	87.09	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1972	72.12	49.98	4.97	86.58	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1973	71.13	49.89	4.98	86.05	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1974	70.10	49.81	4.99	85.52	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1975	69.03	49.72	5.01	84.97	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1976	67.92	49.63	5.02	84.41	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1977	66.75	49.53	5.03	83.83	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1978	65.54	49.44	5.05	83.24	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1979	64.27	49.34	5.07	82.63	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1980	62.94	49.24	5.09	82.00	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1981	61.54	49.13	5.11	81.35	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1982	60.06	49.02	5.13	80.69	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1983	58.50	48.91	5.15	80.00	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1984	56.85	48.80	5.17	79.28	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1985	55.09	48.67	5.20	78.54	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1986	53.20	48.55	5.23	77.76	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1987	51.18	48.42	5.26	76.95	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1988	48.99	43.65	8.77	69.30	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1989	46.62	43.57	8.85	68.62	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1990	44.02	43.49	8.94	67.89	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1991	40.93	52.17	14.82	76.68	0.00	0.00	0.00	0.87	0.69
HHD	DSL	1992	39.54	52.16	14.96	76.42	0.50	90.25	79.24	0.87	0.69
HHD	DSL	1993	38.15	52.14	15.11	76.16	1.00	90.25	79.24	0.87	0.69
HHD	DSL	1994	36.77	52.55	15.25	91.86	0.50	90.25	79.24	0.87	0.90
HHD	DSL	1995	35.38	52.56	15.40	91.41	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1996	34.00	52.57	15.55	90.98	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1997	32.61	52.58	15.71	90.56	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1998	31.22	52.60	15.87	90.15	0.50	90.25	79.24	0.87	0.90
HHD	DSL	1999	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2000	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2001	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2002	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2003	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2004	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2005	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2006	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2007	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2008	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2009	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2010	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
HHD	DSL	2050	31.22	52.60	15.87	90.15	1.00	90.25	79.24	0.87	0.90
UBD	DSL	1965	78.22	35.48	3.63	51.09	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1966	77.42	35.48	3.64	51.00	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1967	76.61	35.48	3.66	50.92	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1968	75.77	35.48	3.67	50.83	0.00	0.00	0.00	0.94	0.80

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- Continuation -

UBD	DSL	1970	74.01	35.49	3.70	50.65	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1971	73.08	35.49	3.72	50.55	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1972	72.12	35.49	3.73	50.46	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1973	71.13	35.49	3.75	50.36	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1974	70.10	35.50	3.77	50.26	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1975	69.03	35.50	3.79	50.15	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1976	67.92	35.51	3.81	50.05	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1977	66.75	35.52	3.83	49.94	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1978	65.54	35.52	3.86	49.83	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1979	64.27	35.53	3.88	49.71	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1980	62.94	35.54	3.90	49.59	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1981	61.54	35.56	3.93	49.46	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1982	60.06	35.57	3.96	49.34	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1983	58.50	35.58	3.99	49.20	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1984	56.85	35.60	4.03	49.06	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1985	55.09	35.62	4.06	48.92	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1986	53.20	35.65	4.10	48.77	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1987	51.18	35.67	4.15	48.61	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1988	48.99	26.89	1.01	34.40	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1989	46.62	26.98	1.02	34.40	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1990	44.02	27.09	1.04	34.41	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1991	40.93	37.24	2.40	66.58	0.00	0.00	0.00	0.87	0.69		
UBD	DSL	1992	39.54	37.34	2.43	66.51	0.50	90.25	79.24	0.87	0.69		
UBD	DSL	1993	38.15	37.43	2.46	66.44	1.00	90.25	79.24	0.87	0.69		
UBD	DSL	1994	36.77	38.59	2.49	66.97	0.50	90.25	79.24	0.87	0.90		
UBD	DSL	1995	35.38	38.70	2.52	66.91	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1996	34.00	38.81	2.55	66.86	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1997	32.61	38.93	2.58	66.82	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1998	31.22	39.05	2.61	66.78	0.50	90.25	79.24	0.87	0.90		
UBD	DSL	1999	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2000	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2001	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2002	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2003	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2004	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2005	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2006	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2007	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2008	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2009	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2010	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		
UBD	DSL	2050	31.22	39.05	2.61	66.78	1.00	90.25	79.24	0.87	0.90		

EXHIBIT C2. 2010 MVEI7G MODELING PARAMETER INPUT FILE

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FILE: HDVIM.10                                  7/25/97, Dan Meszler, EEA
This file contains the correction factors
for heavy-duty trucks due to the Heavy-Duty Vehicle Smoke & Tampering
Inspection Program, as well as, the correction factors for heavy-duty
trucks and urban busses due to the use of clean diesel fuels.

These input data are derived from HDVIP TSD 2010 Scenario and reflect
impacts predicted by modified Radian/EEA malperformance/repair model
expressed in a format constrained by the EMFAC7G BER correction algorithm.
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			The LAST YEAR in column 3 refers to model years				calendar years			model years CLEAN FUELS	
			SMOKE ENFORCEMENT								
			DTEML								
VEH. TYPE	VEH. TECH	LAST YEAR	FR XXX.XX	TOG XXX.XX	NOx XXX.XX	PMEX XXX.XX	AVAL X.XX	BVAL XXX.XX	TARGET XXX.XX	NOx X.XX	PMEX X.XX
LHD	DSL	1965	45.11	46.64	0.20	54.02	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1966	44.97	46.70	0.20	54.05	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1967	44.83	46.75	0.20	54.08	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1968	44.69	46.81	0.20	54.12	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1969	44.55	46.87	0.20	54.15	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1970	44.40	46.93	0.19	54.19	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1971	44.24	46.99	0.19	54.22	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1972	44.09	47.06	0.19	54.26	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1973	43.93	47.13	0.19	54.30	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1974	43.76	47.20	0.19	54.34	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1975	43.59	47.27	0.19	54.39	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1976	43.42	47.34	0.18	54.43	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1977	43.24	47.42	0.18	54.48	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1978	43.05	47.50	0.18	54.53	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1979	42.86	47.59	0.18	54.58	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1980	42.66	47.67	0.18	54.63	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1981	42.46	47.76	0.17	54.68	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1982	42.25	47.86	0.17	54.74	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1983	42.03	47.96	0.17	54.80	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1984	41.81	48.06	0.17	54.86	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1985	41.57	48.17	0.16	54.93	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1986	41.33	48.28	0.16	55.00	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1987	41.08	48.40	0.16	55.07	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1988	40.81	48.46	0.88	55.08	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1989	40.54	48.60	0.88	55.17	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1990	40.25	48.74	0.88	55.26	0.00	0.00	0.00	0.94	0.80
LHD	DSL	1991	40.93	66.69	7.92	82.25	0.00	0.00	0.00	0.87	0.69
LHD	DSL	1992	40.47	66.90	7.99	82.42	0.50	96.61	79.75	0.87	0.69
LHD	DSL	1993	40.02	67.11	8.06	82.59	1.00	96.61	79.75	0.87	0.69
LHD	DSL	1994	39.57	67.94	9.26	101.92	0.50	96.61	79.75	0.87	0.90
LHD	DSL	1995	39.12	68.18	9.35	102.11	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1996	38.67	68.42	9.44	102.31	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1997	38.22	68.67	9.53	102.52	0.00	0.00	0.00	0.87	0.90
LHD	DSL	1998	37.77	68.93	9.62	102.74	0.50	96.61	79.75	0.87	0.90
LHD	DSL	1999	37.31	69.19	9.71	102.96	1.00	96.61	79.75	0.87	0.90

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EXHIBIT C2. 2010 MVEI7G MODELING PARAMETER INPUT FILE
- Continuation -

LHD	DSL	2001	36.41	69.74	9.91	103.09	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2002	35.96	70.02	10.01	103.68	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2003	35.51	70.31	10.11	103.93	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2004	35.06	70.61	10.21	104.19	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2005	34.61	70.91	10.32	104.47	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2006	34.15	71.22	10.42	104.75	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2007	33.70	71.54	10.53	105.04	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2008	33.25	71.86	10.65	105.34	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2009	32.80	72.19	10.76	105.65	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2010	32.80	72.19	10.76	105.65	1.00	96.61	79.75	0.87	0.90
LHD	DSL	2050	32.80	72.19	10.76	105.65	1.00	96.61	79.75	0.87	0.90
MHD	DSL	1965	69.73	54.79	5.71	81.34	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1966	69.32	54.77	5.72	81.18	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1967	68.90	54.75	5.73	81.02	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1968	68.47	54.73	5.74	80.86	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1969	68.04	54.71	5.76	80.70	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1970	67.59	54.69	5.77	80.53	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1971	67.13	54.66	5.78	80.36	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1972	66.66	54.64	5.80	80.19	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1973	66.17	54.62	5.81	80.01	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1974	65.68	54.60	5.83	79.83	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1975	65.17	54.58	5.84	79.65	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1976	64.64	54.56	5.86	79.46	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1977	64.11	54.54	5.88	79.27	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1978	63.55	54.51	5.89	79.08	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1979	62.98	54.49	5.91	78.88	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1980	62.39	54.47	5.93	78.68	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1981	61.78	54.45	5.95	78.47	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1982	61.15	54.42	5.97	78.26	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1983	60.50	54.40	5.99	78.04	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1984	59.82	54.38	6.01	77.81	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1985	59.12	54.35	6.03	77.58	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1986	58.39	54.33	6.06	77.35	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1987	57.63	54.31	6.08	77.10	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1988	56.84	51.84	6.32	70.95	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1989	56.01	51.83	6.35	70.76	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1990	55.15	51.82	6.38	70.56	0.00	0.00	0.00	0.94	0.80
MHD	DSL	1991	57.18	72.42	8.69	95.82	0.00	0.00	0.00	0.87	0.69
MHD	DSL	1992	55.82	72.18	8.77	95.21	0.50	92.26	79.75	0.87	0.69
MHD	DSL	1993	54.47	71.95	8.85	94.61	1.00	92.26	79.75	0.87	0.69
MHD	DSL	1994	53.11	72.35	9.73	118.16	0.50	92.26	79.75	0.87	0.90
MHD	DSL	1995	51.76	72.14	9.82	117.14	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1996	50.41	71.93	9.91	116.15	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1997	49.05	71.73	10.00	115.18	0.00	0.00	0.00	0.87	0.90
MHD	DSL	1998	47.70	71.53	10.09	114.24	0.50	92.26	79.75	0.87	0.90
MHD	DSL	1999	46.34	71.34	10.18	113.33	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2000	44.99	71.16	10.28	112.43	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2001	43.63	70.98	10.37	111.56	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2002	42.28	70.81	10.47	110.71	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2003	40.93	70.64	10.57	109.87	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2004	39.57	70.48	10.67	109.06	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2005	38.22	70.32	10.78	108.27	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2006	36.86	70.17	10.88	107.50	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2007	35.51	70.02	10.99	106.75	1.00	92.26	79.75	0.87	0.90

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EXHIBIT C2. 2010 MVEI7G MODELING PARAMETER INPUT FILE
- Continuation -

MHD	DSL	2010	32.80	69.74	11.21	105.30	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2010	32.80	69.74	11.21	105.30	1.00	92.26	79.75	0.87	0.90
MHD	DSL	2050	32.80	69.74	11.21	105.30	1.00	92.26	79.75	0.87	0.90
HHD	DSL	1965	86.01	51.95	4.86	95.82	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1966	85.42	51.89	4.86	95.43	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1967	84.82	51.82	4.87	95.02	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1968	84.21	51.76	4.88	94.62	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1969	83.58	51.69	4.89	94.20	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1970	82.94	51.62	4.89	93.79	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1971	82.28	51.55	4.90	93.36	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1972	81.60	51.48	4.91	92.93	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1973	80.91	51.41	4.91	92.49	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1974	80.20	51.34	4.92	92.05	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1975	79.47	51.27	4.93	91.60	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1976	78.72	51.19	4.94	91.14	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1977	77.94	51.11	4.95	90.68	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1978	77.15	51.04	4.96	90.20	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1979	76.33	50.96	4.97	89.72	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1980	75.48	50.87	4.98	89.23	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1981	74.60	50.79	4.99	88.73	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1982	73.70	50.70	5.00	88.22	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1983	72.76	50.62	5.01	87.69	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1984	71.79	50.53	5.02	87.16	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1985	70.79	50.43	5.03	86.62	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1986	69.74	50.34	5.05	86.06	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1987	68.65	50.24	5.06	85.49	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1988	67.52	44.93	8.32	76.07	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1989	66.33	44.87	8.36	75.62	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1990	65.09	44.80	8.39	75.16	0.00	0.00	0.00	0.94	0.80
HHD	DSL	1991	57.18	53.32	13.63	81.43	0.00	0.00	0.00	0.87	0.69
HHD	DSL	1992	55.82	53.25	13.74	81.06	0.50	90.99	79.75	0.87	0.69
HHD	DSL	1993	54.47	53.18	13.85	80.70	1.00	90.99	79.75	0.87	0.69
HHD	DSL	1994	53.11	53.41	13.96	99.43	0.50	90.99	79.75	0.87	0.90
HHD	DSL	1995	51.76	53.36	14.08	98.80	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1996	50.41	53.32	14.19	98.19	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1997	49.05	53.28	14.31	97.60	0.00	0.00	0.00	0.87	0.90
HHD	DSL	1998	47.70	53.24	14.43	97.02	0.50	90.99	79.75	0.87	0.90
HHD	DSL	1999	46.34	53.21	14.56	96.45	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2000	44.99	53.18	14.68	95.89	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2001	43.63	53.15	14.81	95.35	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2002	42.28	53.12	14.94	94.82	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2003	40.93	53.10	15.07	94.30	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2004	39.57	53.08	15.20	93.80	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2005	38.22	53.07	15.34	93.31	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2006	36.86	53.06	15.48	92.83	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2007	35.51	53.05	15.62	92.36	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2008	34.15	53.04	15.76	91.90	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2009	32.80	53.04	15.91	91.45	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2010	32.80	53.04	15.91	91.45	1.00	90.99	79.75	0.87	0.90
HHD	DSL	2050	32.80	53.04	15.91	91.45	1.00	90.99	79.75	0.87	0.90
UBD	DSL	1965	86.01	36.00	3.57	52.60	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1966	85.42	36.00	3.58	52.53	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1967	84.82	36.00	3.59	52.46	0.00	0.00	0.00	0.94	0.80
UBD	DSL	1968	84.21	35.99	3.60	52.38	0.00	0.00	0.00	0.94	0.80

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EXHIBIT C2. 2010 MVEI7G MODELING PARAMETER INPUT FILE
- Continuation -

UBD	DSL	1970	83.15	35.98	3.62	52.23	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1971	82.28	35.98	3.63	52.15	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1972	81.60	35.98	3.64	52.07	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1973	80.91	35.97	3.65	51.99	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1974	80.20	35.97	3.67	51.91	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1975	79.47	35.97	3.68	51.82	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1976	78.72	35.96	3.69	51.73	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1977	77.94	35.96	3.70	51.65	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1978	77.15	35.96	3.72	51.56	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1979	76.33	35.96	3.73	51.46	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1980	75.48	35.95	3.74	51.37	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1981	74.60	35.95	3.76	51.27	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1982	73.70	35.95	3.77	51.17	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1983	72.76	35.95	3.79	51.07	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1984	71.79	35.95	3.81	50.97	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1985	70.79	35.95	3.83	50.86	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1986	69.74	35.95	3.84	50.75	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1987	68.65	35.95	3.86	50.64	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1988	67.52	26.58	0.90	34.82	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1989	66.33	26.62	0.91	34.81	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1990	65.09	26.65	0.92	34.79	0.00	0.00	0.00	0.94	0.80		
UBD	DSL	1991	57.18	36.83	2.16	68.78	0.00	0.00	0.00	0.87	0.69		
UBD	DSL	1992	55.82	36.89	2.18	68.64	0.50	90.99	79.75	0.87	0.69		
UBD	DSL	1993	54.47	36.95	2.20	68.50	1.00	90.99	79.75	0.87	0.69		
UBD	DSL	1994	53.11	38.04	2.22	68.97	0.50	90.99	79.75	0.87	0.90		
UBD	DSL	1995	51.76	38.11	2.24	68.84	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1996	50.41	38.18	2.27	68.71	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1997	49.05	38.25	2.29	68.59	0.00	0.00	0.00	0.87	0.90		
UBD	DSL	1998	47.70	38.32	2.31	68.47	0.50	90.99	79.75	0.87	0.90		
UBD	DSL	1999	46.34	38.40	2.34	68.36	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2000	44.99	38.47	2.36	68.25	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2001	43.63	38.55	2.39	68.15	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2002	42.28	38.64	2.42	68.05	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2003	40.93	38.72	2.44	67.96	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2004	39.57	38.81	2.47	67.87	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2005	38.22	38.90	2.50	67.79	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2006	36.86	38.99	2.52	67.71	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2007	35.51	39.09	2.55	67.63	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2008	34.15	39.19	2.58	67.56	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2009	32.80	39.29	2.61	67.49	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2010	32.80	39.29	2.61	67.49	1.00	90.99	79.75	0.87	0.90		
UBD	DSL	2050	32.80	39.29	2.61	67.49	1.00	90.99	79.75	0.87	0.90		