

**Mail-Out #MSC 14-20
ATTACHMENT 1**

Appendix O

On-Road VIP Funding Matrix for Retrofits

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Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs			HHD GVWR = 33,001 lbs or more		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
2002 and older	14,000	1,300	\$1,000	9,000	1,500	\$1,000
	27,000	2,600	\$2,000	17,000	2,700	\$2,000
	40,000	3,900	\$3,000	25,000	4,000	\$3,000
	53,000	5,100	\$4,000	33,000	5,200	\$4,000
	66,000	6,400	\$5,000	41,000	6,500	\$5,000
	79,000	7,700	\$6,000	49,000	7,700	\$6,000
	92,000	9,000	\$7,000	57,000	9,000	\$7,000
				65,000	10,200	\$8,000
				73,000	11,500	\$9,000
				82,000	12,900	\$10,000
2003-2006	19,000	1,900	\$1,000	12,000	1,900	\$1,000
	38,000	3,700	\$2,000	24,000	3,800	\$2,000
	57,000	5,600	\$3,000	35,000	5,500	\$3,000
	76,000	7,400	\$4,000	47,000	7,400	\$4,000
	95,000	9,200	\$5,000	59,000	9,300	\$5,000
				70,000	11,000	\$6,000
				82,000	12,900	\$7,000
				94,000	14,800	\$8,000

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Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs		HHD GVWR = 33,001 lbs or more			
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
	2002 and older	7,000	700	\$1,000	5,000	800
14,000		1,300	\$2,000	9,000	1,500	\$2,000
20,000		2,000	\$3,000	13,000	2,100	\$3,000
27,000		2,600	\$4,000	17,000	2,700	\$4,000
34,000		3,300	\$5,000	21,000	3,300	\$5,000
40,000		3,900	\$6,000	25,000	4,000	\$6,000
47,000		4,600	\$7,000	29,000	4,600	\$7,000
53,000		5,200	\$8,000	33,000	5,200	\$8,000
60,000		5,800	\$9,000	37,000	5,800	\$9,000
67,000	6,500	\$10,000	41,000	6,500	\$10,000	
2003-2006	10,000	1,000	\$1,000	6,000	1,000	\$1,000
	20,000	1,900	\$2,000	12,000	1,900	\$2,000
	29,000	2,800	\$3,000	18,000	2,900	\$3,000
	39,000	3,800	\$4,000	24,000	3,800	\$4,000
	48,000	4,700	\$5,000	30,000	4,800	\$5,000
	58,000	5,600	\$6,000	36,000	5,700	\$6,000
	67,000	6,500	\$7,000	42,000	6,600	\$7,000
	77,000	7,500	\$8,000	48,000	7,600	\$8,000
	86,000	8,400	\$9,000	53,000	8,400	\$9,000
96,000	9,300	\$10,000	59,000	9,300	\$10,000	

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Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs		HHD GVWR = 33,001 lbs or more			
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
	2002 and older	5,000	500	\$1,000	5,000	800
9,000		900	\$2,000	6,000	1,000	\$2,000
14,000		1,300	\$3,000	9,000	1,500	\$3,000
18,000		1,800	\$4,000	12,000	1,900	\$4,000
23,000		2,200	\$5,000	14,000	2,200	\$5,000
27,000		2,600	\$6,000	17,000	2,700	\$6,000
32,000		3,100	\$7,000	20,000	3,200	\$7,000
36,000		3,500	\$8,000	23,000	3,700	\$8,000
45,000		4,400	\$10,000	28,000	4,400	\$10,000
2003-2006	7,000	700	\$1,000	5,000	800	\$1,000
	13,000	1,300	\$2,000	8,000	1,300	\$2,000
	20,000	1,900	\$3,000	12,000	1,900	\$3,000
	26,000	2,500	\$4,000	16,000	2,600	\$4,000
	33,000	3,200	\$5,000	20,000	3,200	\$5,000
	39,000	3,800	\$6,000	24,000	3,800	\$6,000
	45,000	4,400	\$7,000	28,000	4,400	\$7,000
	52,000	5,000	\$8,000	32,000	5,100	\$8,000
	65,000	6,300	\$10,000	40,000	6,300	\$10,000

Appendix P

On-Road VIP Funding Matrix for Truck Replacements

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Table P-1A: Light Heavy-Duty (GVWR = 14,001 to 19,500 lbs)

- Fleets of 1-3 trucks
- Replacement vehicles delivered and post inspected by December 31, 2015
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE)

NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1997 No Truck and Bus Regulatory compliance due before January 1, 2017	25,000	2,500	\$5,000	27,000	2,600	\$5,000
	50,000	4,900	\$10,000	54,000	5,200	\$10,000
	75,000	7,300	\$15,000			
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	13,000	1,200	\$5,000	14,000	1,300	\$5,000
	25,000	2,400	\$10,000	27,000	2,600	\$10,000
	37,000	3,600	\$15,000			
	50,000	4,800	\$20,000			
1999-2002 No Truck and Bus Regulatory compliance due before January 1, 2019	9,000	900	\$5,000	9,000	900	\$5,000
	17,000	1,700	\$10,000	18,000	1,800	\$10,000
	25,000	2,500	\$15,000			
	34,000	3,300	\$20,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2019	14,000	1,300	\$5,000			
	27,000	2,600	\$10,000			
	40,000	3,900	\$15,000			
	53,000	5,200	\$20,000			
USED REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1997 No Truck and Bus Regulatory compliance due before January 1, 2017	25,000	2,500	\$5,000	27,000	2,600	\$5,000
	50,000	4,900	\$10,000			
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	13,000	1,200	\$5,000	14,000	1,300	\$5,000
	25,000	2,400	\$10,000			
1999-2002 No Truck and Bus Regulatory compliance due before January 1, 2019	9,000	900	\$5,000	9,000	1,000	\$5,000
	17,000	1,700	\$10,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2019	14,000	1,300	\$5,000			
	27,000	2,600	\$10,000			

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Table P-1B: Light And Medium Heavy-Duty (GVWR = 14,001 to 26,000 lbs)

- Fleets of 1-3 trucks
- Replacement vehicles delivered and post inspected by December 31, 2015
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2019
- **MUST HAVE TRUCRS FLEXIBILITY OPTION COMPLIANCE CERTIFICATE (Engine Model Year Schedule not eligible)**

NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
≤ 1990	9,000	900	\$5,000	10,000	1,000	\$5,000
	17,000	1,800	\$10,000	19,000	1,900	\$10,000
	26,000	2,600	\$15,000			
	34,000	3,500	\$20,000			
1991-1996	12,000	1,200	\$5,000	14,000	1,300	\$5,000
	24,000	2,400	\$10,000	27,000	2,600	\$10,000
	36,000	3,500	\$15,000			
	48,000	4,700	\$20,000			
USED REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
≤ 1990	9,000	900	\$5,000	10,000	1,000	\$5,000
	17,000	1,800	\$10,000			
1991-1996	12,000	1,200	\$5,000	14,000	1,300	\$5,000
	24,000	2,400	\$10,000			

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Table P-2A: Medium Heavy-Duty (GVWR = 19,501 to 26,000 lbs)

- Fleets of 1-3 trucks
- Replacement vehicles delivered and post inspected by December 31, 2015
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C)
(ENGINE MODEL YEAR SCHEDULE)

NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1997 No Truck and Bus Regulatory compliance due before January 1, 2017	50,000	4,900	\$10,000	54,000	5,200	\$10,000
	75,000	7,300	\$15,000			
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	25,000	2,400	\$10,000	27,000	2,600	\$10,000
	37,000	3,600	\$15,000	40,000	3,900	\$15,000
	50,000	4,800	\$20,000			
	62,000	6,000	\$25,000			
1999-2002 No Truck and Bus Regulatory compliance due before January 1, 2019	17,000	1,700	\$10,000	18,000	1,800	\$10,000
	25,000	2,500	\$15,000	27,000	2,600	\$15,000
	34,000	3,300	\$20,000			
	42,000	4,100	\$25,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2019	27,000	2,600	\$10,000			
	40,000	3,900	\$15,000			
	53,000	5,200	\$20,000			
	67,000	6,500	\$25,000			

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Table P-2B: Medium Heavy-Duty (GVWR = 19,501 to 26,000 lbs)

- Fleets of 1-3 trucks
- Replacement vehicles delivered and post inspected by December 31, 2015
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C)
(ENGINE MODEL YEAR SCHEDULE)

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
1997 No Truck and Bus Regulatory compliance due before January 1, 2017	50,000	4,900	\$10,000	54,000	5,200	\$10,000	65,000	6,300	\$10,000
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	25,000	2,400	\$10,000	27,000	2,600	\$10,000	32,000	3,100	\$10,000
	37,000	3,600	\$15,000						
1999-2002 No Truck and Bus Regulatory compliance due before January 1, 2019	17,000	1,700	\$10,000	18,000	1,800	\$10,000	22,000	2,100	\$10,000
	25,000	2,500	\$15,000						
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2019	27,000	2,600	\$10,000						
	40,000	3,900	\$15,000						

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Table P-3A: Medium Heavy-Duty (GVWR = 26,001 to 33,000 lbs)

- Fleets of 1-3 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2019
- Replacement Vehicles Delivered and Post-inspected by December 31, 2015
- **MUST HAVE TRUCRS FLEXIBILITY OPTION COMPLIANCE CERTIFICATE (Engine Model Year Schedule not eligible)**

NEW REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
<= 1990	17,000	1,800	\$10,000	19,000	1,900	\$10,000
	26,000	2,600	\$15,000	28,000	2,800	\$15,000
	34,000	3,500	\$20,000	37,000	3,800	\$20,000
	43,000	4,400	\$25,000	46,000	4,700	\$25,000
	51,000	5,200	\$30,000			
	59,000	6,100	\$35,000			
1991-1993	24,000	2,300	\$10,000	26,000	2,600	\$10,000
	36,000	3,500	\$15,000	39,000	3,800	\$15,000
	47,000	4,600	\$20,000	52,000	5,100	\$20,000
	59,000	5,700	\$25,000	65,000	6,400	\$25,000
	71,000	6,900	\$30,000			
	82,000	8,000	\$35,000			
1994-2002	25,000	2,400	\$10,000	28,000	2,700	\$10,000
	37,000	3,600	\$15,000	41,000	4,000	\$15,000
	49,000	4,800	\$20,000	55,000	5,300	\$20,000
	62,000	6,000	\$25,000	69,000	6,700	\$25,000
	74,000	7,200	\$30,000			
	86,000	8,400	\$35,000			
2003-2006	39,000	3,800	\$10,000			
	58,000	5,700	\$15,000			
	78,000	7,600	\$20,000			
	97,000	9,400	\$25,000			

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Table P-3B: Medium Heavy-Duty (GVWR = 26,001 to 33,000 lbs)

- Fleets of 1-3 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2019
- Replacement Vehicles Delivered and Post-inspected by December 31, 2015
- **MUST HAVE TRUCRS FLEXIBILITY OPTION COMPLIANCE CERTIFICATE (Engine Model Year Schedule not eligible)**

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
<= 1990	17,000	1,800	\$10,000	19,000	1,900	\$10,000	22,000	2,300	\$10,000
	26,000	2,600	\$15,000	28,000	2,800	\$15,000	33,000	3,400	\$15,000
	34,000	3,500	\$20,000	37,000	3,800	\$20,000			
	43,000	4,400	\$25,000						
1991-1993	24,000	2,300	\$10,000	26,000	2,600	\$10,000	35,000	3,400	\$10,000
	36,000	3,500	\$15,000	39,000	3,800	\$15,000	52,000	5,100	\$15,000
	47,000	4,600	\$20,000	52,000	5,100	\$20,000			
	59,000	5,700	\$25,000						
1994-2002	25,000	2,400	\$10,000	28,000	2,700	\$10,000	37,000	3,600	\$10,000
	37,000	3,600	\$15,000	41,000	4,000	\$15,000	56,000	5,400	\$15,000
	49,000	4,800	\$20,000	55,000	5,300	\$20,000			
	62,000	6,000	\$25,000						
2003-2006	39,000	3,800	\$10,000						
	58,000	5,700	\$15,000						
	78,000	7,600	\$20,000						

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Table P-4A: Heavy Heavy-Duty (GVWR = 33,001 lbs or more)

- Fleets of 1-3 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2019
- Replacement vehicles delivered and post inspected by December 31, 2015
- **MUST HAVE TRUCRS FLEXIBILITY OPTION COMPLIANCE CERTIFICATE (Engine Model Year Schedule not eligible)**

NEW REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
<= 1990	12,000	2,000	\$10,000	13,000	2,200	\$10,000
	18,000	3,000	\$15,000	19,000	3,200	\$15,000
	24,000	3,900	\$20,000	26,000	4,300	\$20,000
	29,000	4,900	\$25,000	32,000	5,300	\$25,000
	35,000	5,900	\$30,000	38,000	6,400	\$30,000
	41,000	6,800	\$35,000	44,000	7,400	\$35,000
	47,000	7,800	\$40,000			
1991-1993	53,000	8,800	\$45,000			
	14,000	2,300	\$10,000	16,000	2,500	\$10,000
	21,000	3,400	\$15,000	23,000	3,700	\$15,000
	28,000	4,500	\$20,000	31,000	4,900	\$20,000
	35,000	5,600	\$25,000	38,000	6,200	\$25,000
	41,000	6,700	\$30,000	46,000	7,400	\$30,000
	48,000	7,800	\$35,000	53,000	8,600	\$35,000
	55,000	8,900	\$40,000			
1994-2002	62,000	10,000	\$45,000			
	15,000	2,300	\$10,000	16,000	2,500	\$10,000
	22,000	3,400	\$15,000	24,000	3,800	\$15,000
	29,000	4,500	\$20,000	32,000	5,000	\$20,000
	36,000	5,600	\$25,000	40,000	6,300	\$25,000
	43,000	6,800	\$30,000	48,000	7,500	\$30,000
	50,000	7,900	\$35,000	56,000	8,700	\$35,000
	58,000	9,000	\$40,000			
2003-2006	65,000	10,100	\$45,000			
	23,000	3,600	\$10,000			
	34,000	5,400	\$15,000			
	46,000	7,200	\$20,000			
	57,000	8,900	\$25,000			
	68,000	10,700	\$30,000			
	80,000	12,500	\$35,000			
91,000	14,300	\$40,000				

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Table P-4B: Heavy Heavy-Duty (GVWR = 33,001 lbs or more)

- Fleets of 1-3 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2019
- Replacement vehicles delivered and post inspected by December 31, 2015
- **MUST HAVE TRUCRS FLEXIBILITY OPTION COMPLIANCE CERTIFICATE (Engine Model Year Schedule not eligible)**

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
<= 1990	12,000	2,000	\$10,000	13,000	2,200	\$10,000	16,000	2,700	\$10,000
	18,000	3,000	\$15,000	19,000	3,200	\$15,000	24,000	4,000	\$15,000
	24,000	3,900	\$20,000	26,000	4,300	\$20,000	32,000	5,300	\$20,000
	29,000	4,900	\$25,000	32,000	5,300	\$25,000			
	35,000	5,900	\$30,000	38,000	6,400	\$30,000			
	41,000	6,800	\$35,000						
1991-1993	14,000	2,300	\$10,000	16,000	2,500	\$10,000	20,000	3,300	\$10,000
	21,000	3,400	\$15,000	23,000	3,700	\$15,000	30,000	4,900	\$15,000
	28,000	4,500	\$20,000	31,000	4,900	\$20,000	40,000	6,500	\$20,000
	35,000	5,600	\$25,000	38,000	6,200	\$25,000			
	41,000	6,700	\$30,000	46,000	7,400	\$30,000			
	48,000	7,800	\$35,000						
1994-2002	15,000	2,300	\$10,000	16,000	2,500	\$10,000	22,000	3,400	\$10,000
	22,000	3,400	\$15,000	24,000	3,800	\$15,000	32,000	5,000	\$15,000
	29,000	4,500	\$20,000	32,000	5,000	\$20,000	43,000	6,700	\$20,000
	36,000	5,600	\$25,000	40,000	6,300	\$25,000			
	43,000	6,800	\$30,000	48,000	7,500	\$30,000			
	50,000	7,900	\$35,000						
2003-2006	23,000	3,600	\$10,000						
	34,000	5,400	\$15,000						
	46,000	7,200	\$20,000						
	57,000	8,900	\$25,000						
	68,000	10,700	\$30,000						