Appendix O

On-Road VIP Funding Matrix for Retrofits

Table O-1 Eligibility:												
 Fleets of 1 	-10											
• NO TRUCH	AND BUS REG	ULATORY COMF	LIANCE DATE E	BEFORE JANUA	RY 1, 2018							
Retrofits Installed and Post Inspected by December 31, 2016												
 Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) 												
		LHD and MHD			HHD							
	GVW	R = 14,001 to 33,0)00 lbs	GVW	R = 33,001 lbs oi	r more						
Engine Model Year	-	m Annual			n Annual							
	Us	age	Funding	Us	age	Funding						
	Miles	Gallons	Amount	Miles	Gallons	Amount						
	19,000	1,900	\$1,000	12,000	1,900	\$1,000						
	36,000	3,600	\$2,000	23,000	3,700	\$2,000						
	54,000	5,300	\$3,000	34,000	5,400	\$3,000						
2002 and older	71,000	7,000	\$4,000	45,000	7,100	\$4,000						
	89,000	8,700	\$5,000	55,000	8,700	\$5,000						
				66,000	10,400	\$6,000						
				77,000	12,100	\$7,000						
				88,000	13,800	\$8,000						
	26,000	2,600	\$1,000	17,000	2,700	\$1,000						
	52,000	5,100	\$2,000	32,000	5,100	\$2,000						
2003-2006	77,000	7,500	\$3,000	48,000	7,600	\$3,000						
	, 			64,000	10,100	\$4,000						
				79,000	12,400	\$5,000						
		1	<u> </u>	95,000	14,900	\$6,000						
				95,000	14,900	\$0,000						

Table O-2 Eligibility:						
 Fleets of 1 	-10					
• NO TRUCH	AND BUS REG	ULATORY COMP	LIANCE DATE	BEFORE JANUA	RY 1, 2019	
 Retrofits Ir 	nstalled and Post	t Inspected by De	ecember 31, 201	6		
 Fleet must 	be compliant; T	RUCRS or applic	able compliance	e documentatior	n in Section C.1.	(C)
		LHD and MHD			HHD	
	GVWF	R = 14,001 to 33,0)00 lbs	GVW	R = 33,001 lbs oi	r more
Engine Model Year	Minimu	n Annual		Minimur	n Annual	
	Us	age	Funding	Us	age	Funding
	Miles	Gallons	Amount	Miles	Gallons	Amount
	10,000	1,000	\$1,000	6,000	1,000	\$1,000
	19,000	1,900	\$2,000	12,000	1,900	\$2,000
	28,000	2,800	\$3,000	17,000	2,700	\$3,000
	37,000	3,600	\$4,000	23,000	3,700	\$4,000
	45,000	4,400	\$5,000	28,000	4,400	\$5,000
2002 and older	54,000	5,300	\$6,000	34,000	5,400	\$6,000
	63,000	6,200	\$7,000	39,000	6,200	\$7,000
	72,000	7,100	\$8,000	45,000	7,100	\$8,000
	81,000	7,900	\$9,000	50,000	7,900	\$9,000
	90,000	8,800	\$10,000	56,000	8,800	\$10,000
	14,000	1,400	\$1,000	9,000	1,500	\$1,000
	27,000	2,700	\$2,000	17,000	2,700	\$2,000
	39,000	3,800	\$3,000	25,000	4,000	\$3,000
	52,000	5,100	\$4,000	33,000	5,200	\$4,000
2003-2006	65,000	6,400	\$5,000	41,000	6,500	\$5,000
2000 2000	78,000	7,600	\$6,000	48,000	7,600	\$6,000
	90,000	8,800	\$7,000	56,000	8,800	\$7,000
				64,000	10,100	\$8,000
				72,000	11,300	\$9,000
				80,000	12,600	\$10,000

Table O-3 Eligibility:						
 Fleets of 1 	-10					
NO TRUCK	AND BUS REG	ULATORY COMP	LIANCE DATE	BEFORE JANUA	ARY 1, 2020	
		t Inspected by De				
 Fleet must 	be compliant; T	RUCRS or applic	able compliance	e documentatio	n in Section C.1.	(C)
		LHD and MHD			HHD	
	GVWF	R = 14,001 to 33,0)00 lbs	GVW	R = 33,001 lbs o	r more
Engine Model Year	Minimu	m Annual		Minimu	m Annual	
-	Us	age	Funding	Us	sage	Funding
	Miles	Gallons	Amount	Miles	Gallons	Amount
	7,000	700	\$1,000	5,000	800	\$1,000
	13,000	1,300	\$2,000	8,000	1,300	\$2,000
	19,000	1,900	\$3,000	12,000	1,900	\$3,000
	25,000	2,500	\$4,000	16,000	2,600	\$4,000
2002 and older	31,000	3,100	\$5,000	20,000	3,200	\$5,000
	37,000	3,600	\$6,000	23,000	3,700	\$6,000
	43,000	4,200	\$7,000	27,000	4,300	\$7,000
	49,000	4,800	\$8,000	31,000	4,900	\$8,000
	55,000	5,400	\$9,000	34,000	5,400	\$9,000
	61,000	6,000	\$10,000	38,000	6,000	\$10,000
	10,000	1,000	\$1,000	6,000	1,000	\$1,000
	18,000	1,800	\$2,000	12,000	1,900	\$2,000
	27,000	2,700	\$3,000	17,000	2,700	\$3,000
	35,000	3,500	\$4,000	22,000	3,500	\$4,000
2003-2006	44,000	4,300	\$5,000	28,000	4,400	\$5,000
2003-2000	53,000	5,200	\$6,000	33,000	5,200	\$6,000
	61,000	6,000	\$7,000	38,000	6,000	\$7,000
	70,000	6,900	\$8,000	44,000	6,900	\$8,000
	78,000	7,600	\$9,000	49,000	7,700	\$9,000
	87,000	8,500	\$10,000	54,000	8,500	\$10,000

Appendix P

On-Road VIP Funding Matrix for Truck Replacements

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

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE ONLY)

(ENGINE MODEL TE			LACEMENT				
	0.20 g/bł	np-hr NOx St Cleaner		0.50 g/bhp-hr NOx Standard or Cleaner			
Engine Model Year		n Annual age	Funding Amount	Minimu U៖	Funding Amount		
	Miles	Gallons	Amount	Miles	Gallons	Amount	
1998	24,000	2,300	\$5,000	26,000	2,500	\$5,000	
No Truck and Bus Regulatory	48,000	4,600	\$10,000	51,000	5,000	\$10,000	
compliance due before	71,000	6,900	\$15,000				
January 1, 2018	95,000	9,200	\$20,000				
1999	12,000	1,200	\$5,000	13,000	1,300	\$5,000	
No Truck and Bus Regulatory	24,000	2,400	\$10,000	26,000	2,500	\$10,000	
compliance due before January 1, 2019	36,000	3,500	\$15,000				
	48,000	4,700	\$20,000				
2000-2002	9,000	800	\$5,000	9,000	900	\$5,000	
No Truck and Bus Regulatory	17,000	1,600	\$10,000	18,000	1,700	\$10,000	
compliance due before	25,000	2,400	\$15,000				
January 1, 2020	33,000	3,200	\$20,000				
2003-2006	13,000	1,300	\$5,000				
No Truck and Bus Regulatory	26,000	2,500	\$10,000				
compliance due before	39,000	3,800	\$15,000				
January 1, 2020	52,000	5,000	\$20,000				
La construction de la constructi		USED REP	LACEMENT				
	0.20 g/bł	np-hr NOx St		0.50 g/b	hp-hr NOx S	tandard or	
	0.20 9.01	Cleaner		0.50 g/bhp-hr NOx Standard Cleaner			
Engine Model Year	-	n Annual age	Funding	-	Minimum Annual		
	Miles	Gallons	Amount	Miles	Gallons	Amount	
1998 No Truck and Bus Regulatory	24,000	2,300	\$5,000	26,000	2,500	\$5,000	
compliance due before January 1, 2018	48,000	4,600	\$10,000				
1999 No Truck and Bus Regulatory	12,000	1,200	\$5,000	13,000	1,300	\$5,000	
compliance due before January 1, 2019	24,000	2,400	\$10,000				
2000-2002 No Truck and Bus Regulatory	9,000	800	\$5,000	9,000	900	\$5,000	
compliance due before January 1, 2020	17,000	1,600	\$10,000				
2003-2006 No Truck and Bus Regulatory	13,000	1,300	\$5,000				
compliance due before January 1, 2020	26,000	2,500	\$10,000				

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

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Must show current compliance and reported TRUCRS compliance option (ENGINE MODEL YEAR SCHEDULE NOT ELIGIBLE)

	0.20 g/bł	np-hr NOx St Cleaner		0.50 g/bhp-hr NOx Standard or Cleaner			
Engine Model Year	-	n Annual age	Funding Amount	Minimu Us	Funding		
	Miles	Gallons	Amount	Miles	Gallons	Amount	
	9,000	900	\$5,000	9,000	1,000	\$5,000	
<u><</u> 1990	17,000	1,700	\$10,000	18,000	1,900	\$10,000	
<u><</u> 1990	25,000	2,600	\$15,000				
	33,000	3,400	\$20,000				
1991-1997	12,000	1,200	\$5,000	13,000	1,300	\$5,000	
1331-1337	24,000	2,300	\$10,000	26,000	2,600	\$10,000	
	35,000	3,400	\$15,000				
	47,000	4,600	\$20,000				
		USED REP	LACEMENT				
	0.20 g/bł	np-hr NOx St Cleaner	andard or	0.50 g/bhp-hr NOx Standard or Cleaner			
Engine Model Year		n Annual age	Funding		Minimum Annual Usage		
	Miles	Gallons	Amount	Miles	Gallons	Amount	
<u><</u> 1990	9,000	900	\$5,000	9,000	1,000	\$5,000	
<u> </u>	17,000	1,700	\$10,000				
1991-1997	12,000	1,200	\$5,000	13,000	1,300	\$5,000	
1991-1997	24,000	2,300	\$10,000				

 Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE ONLY) 											
NEW REPLACEMENT 0.20 g/bhp-hr NOx Standard or Cleaner 0.50 g/bhp-hr NOx Standard or Cleaner											
	0.20 g/bnp-i Minimum An		Funding		nr NOx Standa	Funding					
Engine Model Year	Miles	Gallons	Amount	Miles	Gallons	Amoun					
1998	48,000	4,600	\$10,000	51,000	5,000	\$10,000					
No Truck and Bus Regulatory compliance due before	71,000	6,900	\$15,000	76,000	7,400	\$15,000					
January 1, 2018	95,000	9,200	\$20,000								
1999	24,000	2,400	\$10,000	26,000	2,500	\$10,000					
No Truck and Bus Regulatory compliance due before	36,000	3,500	\$15,000	39,000	3,800	\$15,000					
January 1, 2019	48,000	4,700	\$20,000								
2000 2002	17,000	1,600	\$10,000	18,000	1,700	\$10,000					
2000-2002 No Truck and Bus Regulatory	25,000	2,400	\$15,000	26,000	2,600	\$15,000					
compliance due before January 1, 2020	33,000	3,200	\$20,000								
Gandary 1, 2020	41,000	3,900	\$25,000								
	26,000	2,500	\$10,000								
2003-2006 No Truck and Bus Regulatory	39,000	3,800	\$15,000								
compliance due before January 1, 2020	52,000	5,000	\$20,000]							
January 1, 2020	65,000	6,300	\$25,000								

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

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE ONLY)

USED REPLACEMENT										
	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			
Engine Model Year	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	
	Miles	Gallons		Miles	Gallons		Miles	Gallons		
1998	48,000	4,600	\$10,000	51,000	5,000	\$10,000	62,000	6,000	\$10,000	
No Truck and Bus Regulatory compliance due before January 1, 2018	71,000	6,900	\$15,000							
1999 No Truck and Bus Regulatory	24,000	2,400	\$10,000	26,000	2,500	\$10,000	31,000	3,100	\$10,000	
compliance due before January 1, 2019	36,000	3,500	\$15,000							
2000-2002 No Truck and Bus Regulatory	17,000	1,600	\$10,000	18,000	1,700	\$10,000	21,000	2,100	\$10,000	
compliance due before January 1, 2020	25,000	2,400	\$15,000							
2003-2006 No Truck and Bus Regulatory	26,000	2,500	\$10,000							
compliance due before January 1, 2020	39,000	3,800	\$15,000							

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

- Fleets of 1-10 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2020
- Replacement Vehicles Delivered and Post-inspected by December 31, 2016
- MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE (Engine Model Year Schedule eligible if truck is filtered)

NEW REPLACEMENT 0.20 g/bhp-hr NOx Standard or Cleaner 0.50 g/bhp-hr NOx Standard or Cleaner Engine Model Minimum Annual Usage Minimum Annual Usage Funding Funding Year Miles Gallons Amount Miles Gallons Amount 17,000 1.700 18.000 \$10.000 \$10,000 1.900 25,000 2,600 \$15,000 27,000 2,800 \$15,000 33,000 3,400 \$20,000 36.000 3,700 \$20,000 <= 1990 \$25,000 41,000 4,200 \$25,000 44,000 4,600 \$30,000 49.000 5,100 5,900 \$35,000 58,000 23.000 2.300 \$10.000 26.000 2.500 \$10.000 35,000 3,400 \$15,000 38,000 3,700 \$15,000 46,000 4,500 \$20,000 51,000 4,900 \$20,000 1991-1993 57,000 5,600 \$25,000 63,000 6,200 \$25,000 6,700 \$30,000 69,000 80,000 7,800 \$35,000 24,000 2,400 27,000 2,600 \$10,000 \$10,000 36,000 3,500 \$15,000 40,000 3,900 \$15,000 48,000 4,700 \$20,000 53,000 5,200 \$20,000 1994-2002 60,000 5.800 \$25,000 67,000 6,500 \$25,000 72,000 7,000 \$30,000 83.000 8.100 \$35.000 38,000 3,700 \$10,000 57,000 5,500 \$15,000 2003-2006 75,000 7,300 \$20,000 94,000 9,100 \$25,000

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

- Fleets of 1-10 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2020
- Replacement Vehicles Delivered and Post-inspected by December 31, 2016
- MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE (Engine Model Year Schedule eligible if truck is filtered)

USED REPLACEMENT											
0.20 g/bhp-hr NOx St Engine Cleaner		tandard or	0.50 g/l	bhp-hr NOx St Cleaner	andard or	1.20 g/bhp-hr NOx Standard or Cleaner					
Model Year	Minimun Usa	n Annual age	Funding		um Annual Isage	Funding	-	m Annual age	Funding		
	Miles	Gallons	Amount	Miles	Gallons	Amount	Miles	Gallons	Amount		
	17,000	1,700	\$10,000	18,000	1,900	\$10,000	22,000	2,200	\$10,000		
1 1000	25,000	2,600	\$15,000	27,000	2,800	\$15,000	32,000	3,300	\$15,000		
<= 1990	33,000	3,400	\$20,000	36,000	3,700	\$20,000					
	41,000	4,200	\$25,000								
	23,000	2,300	\$10,000	26,000	2,500	\$10,000	34,000	3,300	\$10,000		
1001 1002	35,000	3,400	\$15,000	38,000	3,700	\$15,000	51,000	5,000	\$15,000		
1991-1993	46,000	4,500	\$20,000	51,000	4,900	\$20,000					
	57,000	5,600	\$25,000								
	24,000	2,400	\$10,000	27,000	2,600	\$10,000	36,000	3,500	\$10,000		
1004 2002	36,000	3,500	\$15,000	40,000	3,900	\$15,000	54,000	5,300	\$15,000		
1994-2002	48,000	4,700	\$20,000	53,000	5,200	\$20,000					
	60,000	5,800	\$25,000								
	38,000	3,700	\$10,000								
2003-2006	57,000	5,500	\$15,000								
	75,000	7,300	\$20,000								

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

- Fleets of 1-10 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Replacement vehicles delivered and post inspected by December 31, 2016
- MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE (Engine Model Year Schedule eligible if truck is filtered)

NEW REPLACEMENT											
Engine Model		p-hr NOx Standard	0.50 g/bhp-hr NOx Standard or Cleaner								
Year	Minimum An	nual Usage	- Funding Amount	Minimum A	nnual Usage						
i eai	Miles	Gallons	Funding Amount	Miles Gallons		Funding Amount					
	12,000	1,900	\$10,000	13,000	2,100	\$10,000					
	17,000	2,900	\$15,000	19,000	3,100	\$15,000					
	23,000	3,800	\$20,000	25,000	4,100	\$20,000					
<= 1990	29,000	4,800	\$25,000	31,000	5,200	\$25,000					
<= 1990	34,000	5,700	\$30,000	37,000	6,200	\$30,000					
	40,000	6,600	\$35,000	43,000	7,200	\$35,000					
	45,000	7,600	\$40,000								
	51,000	8,500	\$45,000								
	14,000	2,200	\$10,000	15,000	2,400	\$10,000					
	20,000	3,300	\$15,000	22,000	3,600	\$15,000					
	27,000	4,300	\$20,000	30,000	4,800	\$20,000					
1991-1993	34,000	5,400	\$25,000	37,000	6,000	\$25,000					
1991-1993	40,000	6,500	\$30,000	44,000	7,200	\$30,000					
	47,000	7,600	\$35,000	52,000	8,300	\$35,000					
	53,000	8,600	\$40,000								
	60,000	9,700	\$45,000								
	14,000	2,200	\$10,000	16,000	2,500	\$10,000					
	21,000	3,300	\$15,000	24,000	3,700	\$15,000					
	28,000	4,400	\$20,000	31,000	4,900	\$20,000					
1994-2002	35,000	5,500	\$25,000	39,000	6,100	\$25,000					
1994-2002	42,000	6,600	\$30,000	47,000	7,300	\$30,000					
	49,000	7,700	\$35,000	54,000	8,500	\$35,000					
	56,000	8,700	\$40,000								
	63,000	9,800	\$45,000								
	22,000	3,500	\$10,000								
	33,000	5,200	\$15,000								
	44,000	6,900	\$20,000								
2003-2006	55,000	8,700	\$25,000								
2003-2000	66,000	10,400	\$30,000								
	77,000	12,100	\$35,000								
	88,000	13,800	\$40,000								
	99,000	15,600	\$45,000								

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

- Fleets of 1-10 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Replacement vehicles delivered and post inspected by December 31, 2016
- MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE
- (Engine Model Year Schedule eligible if truck is filtered)

USED REPLACEMENT 1.20 g/bhp-hr NOx Standard or 0.50 g/bhp-hr NOx Standard or 0.20 g/bhp-hr NOx Standard or Cleaner Cleaner Cleaner Engine Minimum Annual Usage Model Year Minimum Annual Usage Minimum Annual Usage Funding Funding Funding Amount Amount Amount Miles Gallons Miles Gallons Gallons Miles 12,000 1,900 \$10,000 13,000 2,100 \$10,000 16,000 2,600 \$10,000 17,000 2,900 \$15,000 19,000 3,100 \$15,000 23,000 3,900 \$15,000 23,000 3,800 \$20.000 25,000 4,100 \$20.000 31,000 5.200 \$20.000 <= 1990 29,000 4,800 \$25,000 31,000 5,200 \$25,000 34.000 5.700 \$30.000 37.000 6.200 \$30.000 6.600 \$35.000 40.000 2.200 \$10.000 14.000 15.000 2.400 \$10.000 20.000 3.200 \$10.000 20,000 3,300 \$15,000 22,000 3,600 \$15,000 29,000 4,700 \$15,000 27.000 4.300 \$20.000 30.000 4,800 \$20.000 39.000 6,300 \$20.000 1991-1993 34,000 5,400 \$25,000 37,000 6,000 \$25,000 40,000 6,500 \$30,000 44,000 7,200 \$30,000 \$35.000 47,000 7.600 \$10,000 14,000 2,200 2,500 \$10,000 21.000 \$10.000 16,000 3,300 21,000 3,300 \$15,000 24,000 3,700 \$15,000 31,000 4,900 \$15,000 28,000 4,400 \$20,000 31,000 4,900 \$20,000 42,000 6,500 \$20,000 1994-2002 35,000 5,500 \$25,000 39,000 6,100 \$25,000 \$30.000 42.000 6.600 47.000 7.300 \$30,000 49.000 7,700 \$35.000 22.000 3.500 \$10.000 33,000 5,200 \$15,000 44,000 6,900 \$20,000 2003-2006 55.000 8,700 \$25.000 66.000 10.400 \$30,000 77,000 12,100 \$35,000