ATTACHMENT IV

Table II-3: Support Costs

(A) Development and Calibration Cost of Heavy-Duty Diesel OBD Technology (Research)

Staff	Number of Staff	Staff Cost (a)	Testing Costs (b)	Equipment and Limit Parts	Cost/vehicle(c)
	(person yrs.)	(in dollars)	(in dollars)	(in dollars)	(dollars/veh.)
	0	0	23,402,785	~~1,000~~1,212,950	~~54.18~~56.98
Engineer	75.73	9,713,866	0	0	22.49
			Total		~~76.66~~79.47

(B) DDV and PVE Testing Cost of Heavy-Duty Diesel OBD (Engineering Support)

Staff	Number of Staff	Staff Cost (a)	Testing and Equipment Costs (d)	Cost/vehicle(c)
	(person yrs.)	(in dollars)	(in dollars)	(dollars/veh.)
	0	0	0	0.00
Test Cell Technician	0.60	59,980	156,038	0.50
			Total	0.50

(C) Legal and Administrative costs

	No. of Staff required	Number of years	Staff cost (in dollars)	Cost/vehicle (c) (dollars/vehicle)
Legal	0.25	3	150,000	0.35
Administrative	1	6	900,000	2.08
			Total	2.43

(a) Development cost includes personnel, overhead and other miscellaneous costs at a total rate of $150k/yr for an engineer and $100k/yr for a technician.
(b) Testing Costs includes Labor Costs for Technicians needed to staff the Tests
(c) Staff cost has been distributed over 72,000 diesel engines per year for a total of 6 years.
(d) Equipment costs have been distributed over 72,000 diesel engines per year for a total of 6 years

Table II-4: Incremental Consumer Cost of Heavy-Duty Diesel Vehicle OBD System

		HDDV (in dollars)
Variable costs	Component	37.18
	Assembly	0.68
	Warranty	1.64
	Shipping	1.20
Support costs	Research	22.49
	Engineering Support	0.14
	Legal	0.35
	Administrative	2.08
Investment recovery costs	Mach. & equipment	0.00
	Assembly plant changes	0.00
	Development/Testing	~~54.54~~57.34
Capital recovery (a)		~~7.22~~7.39
Truck/Coach Builder costs	Cost of capital recovery (b)	~~1.87~~1.91
Total cost		~~129.37~~132.39

(a) Cost of capital recovery was calculated at 6% of the total incremental costs.
(b) Cost of capital recovery was calculated at 6%. Engines are assumed to remain in inventory for 3 months.

ATTACHMENT IV