State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-293-7
Relating to Certification of New Motor Vehicles

PAS, INC.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That Pas, Inc. 1994 model-year exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: RP25.735CCEA Displacement: 5.7 Liters (350 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Throttle Body Fuel Injection
  Exhaust Gas Recirculation
  Three Way Catalytic Converter
  Heated Oxygen Sensor

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The LEV certification exhaust emission standards for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.160	4.4	0.7	0.018
	120,000	0.230	6.4	1.0	0.027

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a reactivity adjustment factor (RAF) for CNG-fueled medium-duty LEVs, and the addition of the product of the methane exhaust emission value and a RAF for methane emission of CNG-fueled medium-duty LEVs.

BE IT FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not proposed or adopted a RAF for medium-duty LEVs operated on CNG, or a methane RAF for such vehicles. Based on available data and analysis, there is a strong likelihood that the initially adopted RAF for such vehicles will be less than 1.000, and the initially adopted methane RAF for such vehicles will be less than the numerical value of the maximum incremental reactivity of methane (0.0148). With the consent of the manufacturer, which has been provided, the applicable RAF and methane RAF for the listed engine family shall be treated for all purposes relating to this certification as:

Reactivity Adjustment Factor for NMOG Mass Emission: 1.000

Reactivity Adjustment Factor for Methane Mass Emission: 0.0148

The LEV certification exhaust emission values for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.150	3.0	0.1	0.002
	120,000	0.200	3.7	0.1	0.003

BE IT FURTHER RESOLVED: That, as CNG-fueled low-emission vehicles, the listed vehicle models are exempted from the 50-degree Fahrenheit exhaust emission testing requirements.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the LEV hydrocarbon exhaust emission standard to which the listed vehicles are certified is at least twice as stringent as otherwise applicable to gasoline vehicles of the same year and class, and the listed vehicles therefore meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" as defined in Health and Safety Code Sections 39037.05 and 43800, and such labeling shall meet the requirements of Health and Safety Code Section 43802(a) at the time of sale.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 10th day of November, 1993.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

October 22, 1993 **1994 MODEL-YEAR SUPPLEMENTAL DATA SHEET** E.O.# A-293-7

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Mfr. PAS, INC. Engine Family RP25.735CCEA

Passenger car ____ Light-Duty Truck ____ (T1/T2) Medium-Duty Vehicle M2 (M1/M2/M3/M4/M5)

Stds. Type: LEV (Tier-0/1, AB965, TLEV, LEV, ULEV) Veh. Type (ffv, hev(type A/B/C)): ____

Fuel Type(s) COMPRESSED NATURAL GAS Evaporative family RP25000YYC1A

Engine Config: V-8 Liter (CID) 5.7 (350)

Engine: Front X Mid. ____ Rear ____ Drive: FWD ____ RWD X WD-FT ____ WD-PT ____

Exhaust ECS & Special Features (incl. CARB, MFI, etc.) TBI / EGR / TWC / HO_2S / ~~SL~~ / ~~EI~~ / ~~OBD~~

Engine Code (Cert. Std.)	Vehicle Models (if coded see attachment)	Trans. Type A-automatic M-manual	ETW	DPA or RLHP	Ignition (ECM/PCM)	EGR System Part No.	Catalyst Part No.
KL5	CD100	A-4	5250	14.6	16189075	17087194	25146767
KL5	CD110	A-4	5250	14.6	16189075	17087194	25146767