

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER B-20
Relating to Accreditation as an Emission Control
Device Sold on a Non-Mandatory Basis

NEUTRONICS ENTERPRISES, INC.
MICRO CONTROLLER FEEDBACK CONTROL SYSTEM

Whereas, section 43630 of the Health and Safety Code authorizes the Air Resources Board (the "Board") to establish standards for accrediting devices which substantially reduce motor vehicle exhaust emissions, and to accredit devices which meet these standards;

Whereas, in section 2010, Title 13, California Code of Regulations ("CCR"), and the incorporated "California Exhaust Emission Criteria and Test Procedures for Accrediting Emission Control Devices Sold on a Non-Mandatory Bases, the Board has established such standards and test procedures for determining compliance with them;

Whereas, Neutronics Enterprises, Inc. has applied for accreditation of its Micro-controller feedback control system, pursuant to section 43630 and section 2010, Title 13, CCR;

Whereas, pursuant to the authority vested in the undersigned by California Health and Safety Code section 39516, the Air Resources Board finds:

1. The Micro-controller feedback control system is a device designed to replace the original oxidation catalytic converter with a closed-loop three-way catalytic converter. The vehicle's fuel mixture is monitored and maintained close to stoichiometric by leaning the fuel mixture when rich. The system consists of a computer, an oxygen sensor, a linear actuated stepper motor valve and a three-way or three-way plus oxidation aftermarket catalytic converter.
2. The Micro-controller feedback control system satisfies the test requirements and meets the standards established for accreditation by achieving at least a 20 percent reduction in emissions of hydrocarbons, carbon monoxide and oxides of nitrogen. This finding is based on exhaust emission data derived from two test vehicles.
3. The exhaust emission reductions discussed in the staff report reflect the levels typical for the model, age and mileage of the test vehicles. NOTE: A sample of two vehicles is not adequate to represent the emission reductions that could be achieved if the Micro-controller feedback control system is installed on a fleet of vehicles.

4. The applicant did not submit durability data for its Micro-controller feedback control system. Durability and emission performance of the system at 30,000 miles were based on durability data of the catalytic converter which is a system component.
5. The ARB in the exercise of technical judgement concludes that the Micro-controller feedback control system will not cause substantial emission reductions on lean-burn vehicles.

IT IS ORDERED AND RESOLVED: That Neutronics Enterprises, Inc.'s Micro-controller feedback control system, consisting of a KAT 200 computer, a Car Sound aftermarket catalytic converter, an oxygen sensor and an air valve, is hereby accredited as an emission-control device sold on a non-mandatory basis pursuant to section 43630 of the Health and Safety Code. The Micro-controller feedback control system shall be applicable to 1975 through 1980 model-year passenger cars manufactured in the United States equipped with an open-loop oxidation catalytic converter system and up to 500 CID engine. This accreditation is subject to the following conditions:

1. The following information shall be provided with the sale of each device: Instructions for maintaining the device in proper working condition. Because no vehicle in the application class is currently covered by an emission control system warranty required to be provided by the vehicle manufacturer, the requirement to provide notice that installation of the device may invalidate the vehicle emission control system warranty is waived.
2. This accreditation does not authorize the alteration or modification of emission control devices required by law or regulation, except what has been specified by the installation instructions. No changes to the tuning specifications is permitted other than what the manufacturer has specified in the installation instructions.
3. No changes are permitted to the system as described in the staff report (attachment A). Any changes to the system applicable model year, or other factors addressed in this Executive Order must be evaluated and approved by the ARB prior to marketing in California.
4. Marketing of this system using an identification other than that shown in this Executive Order or marketing of this system for an application other than those listed in the Executive Order shall be prohibited unless prior approval is obtained from the ARB. Accreditation of this product shall not be construed as an accreditation to sell, offer for sale, or advertise any component of the Micro-controller feedback control system as an individual device.

5. NOTE: By granting the accreditation, the Air Resources Board has not determined the potential emission reduction levels that could be achieved from the use of the Micro-controller feedback control system for the purpose of calculating emission credits for any purpose. Use of the device for emission credits will require testing of a larger vehicle sample size to determine the emission reductions representative of the vehicle fleet.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 19th day of September, 1991.



K. D. Drachand, Chief
Mobile Source Division