[LTO MEMORANDUM CIRCULAR NO. 94-192, March 01, 1994]

DIESEL SMOKE EMISSION TEST FOR MOTOR VEHICLES

In order to abate the excessive smoke emission from diesel fed motor vehicles in order to promote public health and environmental safety, and pursuant to the provisions of Section 34(1) of R.A. 4136 and Presidential Decree No. 1181, the following rules and regulations are hereby promulgated for the testing of all diesel fed motor vehicles in the National Capital Region.

SECTION 1. Scope - All diesel powered motor vehicles prior to registration in Metro Manila, shall be subjected to smoke and exhaust emission tests in the district office and MVIS in the case of "For Hire" vehicles. Those already registered and found to be emitting excessive smoke while operating in any public highway, shall be subjected to the same test by properly equipped law enforcement units.

SECTION 2. Smoke Emission Standard - The black soot content shall not exceed 2.5 m-1 light absorption coefficient or 48% in the Iyasaka bosch or opacity-type meter, or 66% in the Hartridge smoke emission unit (hsu) or any equivalent smoke emission tester.

SECTION 3. Test Procedure - The free acceleration feet procedure shall be observed strictly, to wit:

- 1. Test Condition of the Motor Vehicle:
 - a. The fast shall be carried out on a stationary vehicle at normal engine operating procedure with the combustion chamber not cooled or fouled by prolonged period of idling preceding the test.
 - b. The exhaust system shall not have any hole through which the gases emitted by the engine may escape or be diluted.
- 2. Test Procedures and Smoke Opacity Measurement:
 - a. Follow the opacity meter manufacturer's instruction in the proper installation and use, and check the accuracy/calibration before and after each test. Manual of Operation is enclosed for reference.
 - b. Set the vehicle gear in neutral position and engage the hand brake effectively.
 - c. Start the engine and warm up to normal operating temperature.