

**[ DENR ADMINISTRATIVE ORDER NO. 98-47, June 29, 1998 ]**

**IMPLEMENTING RULES AND REGULATIONS (IRR) FOR  
MANDATING THE PHASE-OUT OF LEADED GASOLINE AS ONE OF  
THE MEANS OF SOLVING AIR POLLUTION**

Pursuant to Executive Order No. 446,<sup>\*</sup> series of 1997, entitled "Mandating the Phase-out of Leaded Gasoline as One of the Means of Solving Air Pollution," the Department of Environment and Natural Resources hereby adopts and promulgates the following Rules and Regulations.

**CHAPTER I  
General Provisions and Administrative Procedures**

*SECTION 1. TITLE.* — These Rules and Regulations shall be cited as the "Implementing Rules and Regulations Mandating the Phase out of Leaded Gasoline as One of the Means of Solving Air Pollution (1998)."

*SECTION 2. SCOPE.* — These Rules and Regulations shall govern the implementation and enforcement of Executive Order No. 446.

*SECTION 3. DEFINITIONS.* — For the purpose of these Rules and Regulations, the following terms shall, unless the context otherwise indicates, have the following meanings:

3.1 *Bulk Plant/Terminal/Depot* — refers to an intermediate gasoline distribution facility where delivery of gasoline to and from the facility is solely by trucks, ships, barges, pipes, and other modes of transport.

3.2 *Department* — refers to the Department of Environment and Natural Resources.

3.3 *Final distribution facility* — refers to the facility where the gasoline will be dispensed to the motor vehicles.

3.4 *Gasoline* — refers to a volatile mixture of liquid hydrocarbons, generally containing small amounts of additives, suitable for use as a fuel in spark-ignition internal combustion engines.

3.5 *Gross Vehicle Mass* or "*GVM*" — refers to the technically permissible maximum mass declared by the vehicle manufacturer.

3.6 *Import facility* — refers to the facility which first receives the imported gasoline into the country.

3.7 *Production facility* — refers to a facility that produces gasoline.

3.8 *Refiner* — refers to any person who owns, leases, operates, controls or supervises a refinery.

3.9 *Supply* — mean to provide or transfer a product to a physically separate facility, vehicle, or transportation system.

3.10 *Motor Vehicle* — means any vehicle propelled by a gasoline or diesel engine or any other means other than human or animal power, constructed and operated principally for the conveyance of persons on the transporting or property or goods on a public highway or street opened to public use.

3.11 *Refinery* — refers to a facility which produces liquid fuels by distillation and other processes

*SECTION 4. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR) AS LEAD AGENCY.* The DENR, through the Environmental Management Bureau (EMB) shall take the lead in implementing these rules and regulations, and shall in coordination and consultation with other government agencies, non-government organizations, private entities and institutions, pursuant to Sections to 6 of Executive Order No. 446, enter into a Memorandum of Agreement (MOA) and/or other necessary and appropriate legally binding instruments for the effective administration and enforcement of these Rules and Regulations. Copies of all pertinent reports, researches, studies, surveys, plans, programs and other documents to be submitted under these rules shall be furnished to the EMB-DENR for the centralization of all necessary data.

#### *SECTION 5. APPLICABILITY OF STANDARDS*

5.1 Beginning January 1, 2000, no person shall sell, offer for sale, supply or offer for supply, gasoline from bulk plant or final distribution facility in Metro Manila unless the gasoline complies with the latest issue of the Philippine National Standards (PNS): 1131 "Specifications for Unleaded Motor Gasoline." Nor shall any person import leaded gasoline and lead-containing fuel additives after December 31, 1999, except those that shall be used in areas outside of Metro Manila.

5.2 Beginning January 1, 2001, no person shall manufacture, sell, offer for sale, dispense, transport or introduce into commerce gasoline unless the gasoline complies with the latest issue of PNS: 1131. However, beginning October 1, 2000, no person shall import leaded gasoline and lead-containing fuel additives.

## **CHAPTER II**

### **Fuels and Facilities Quality Standards**

#### *SECTION 6. STANDARDS: FUEL QUALITY STANDARDS*

6.1 Scope: Standard for unleaded motor gasoline shall refer to the latest issue of PNS 1131.

6.2 The specifications for unleaded motor gasoline facilities such as but not

limited to distribution pipes, storage tanks, dispensing units, shall be in accordance with the PNS for such facilities.

### **CHAPTER III**

#### **Monitoring, Evaluation and Assessment**

*SECTION 7. SCOPE.* This Chapter shall cover the provisions on the monitoring, evaluation and assessment of the lead phase-out activities and the corresponding institution to undertake the same.

*SECTION 8. FUNCTIONS, DUTIES AND RESPONSIBILITIES.* In line with section 4 of these Rules and Regulations, and in order to ensure the effective monitoring, evaluation and assessment of these rules and regulations, the following shall be the functions, duties and responsibilities of the various relevant government agencies, which should not exclude however, all other functions, duties and responsibilities that are necessary and incidental to the implementation of these Rules and Regulations.

The DENR shall conduct ambient air sampling activities to determine the level of lead and other fuel-related emissions in the air; conduct statistical evaluation of the results of the ambient air sampling activities; monitor the full and strict compliance of gasoline manufacturers, suppliers, distributors or dealers of their duly approved phase-out programs; and monitor the reduction of greenhouse gases and other toxic gases emissions.

The Department of Energy (DOE) shall monitor compliance with PNS 1131 through periodic random sampling and testing of unleaded gasoline samples from various facilities nationwide such as manufacturers, suppliers, dealers and other sources. It shall also conduct studies on the effects of the phase-out to the relevant sectors but not limited to the gasoline manufacturers, dealers as well as the fuel users.

The Department of Transportation and Communication (DOTC) and the University of the Philippines/National Center for Transport Studies (UP/NCTS) shall establish estimates on the type of vehicles using lead and unleaded gasoline.

The Department of Health (DOH) shall conduct monitoring activities on the health impacts of the ambient air quality levels.

The National Economic Development Authority (NEDA) shall conduct monitoring activities on the economic impacts of the phase-out of leaded gasoline.

The Department of Trade and Industry (DTI) shall act on complaints related to fuel quality and regulate importation of spare parts designed for leaded gasoline.

### **CHAPTER IV**

#### **Inspection/Maintenance and Emission Control System**

*SECTION 9. SCOPE.* This Chapter shall pertain to the control of exhaust emissions for gasoline-fueled motor vehicles emphasizing regular and proper vehicle maintenance and utilizing appropriate test procedures and equipment.

*SECTION 10. MANDATORY PERIODIC INSPECTION.* The mandatory periodic