

Republic of the Philippines
Department of Science and Technology
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
Commonwealth Avenue, Diliman, Quezon City

ADMINISTRATIVE ORDER NO. 01
Series Of 2007

SUBJECT: CLEARANCE LEVELS FOR RADIONUCLIDES IN BULK SOLID MATERIALS

WHEREAS, the PNRI is mandated to ensure protection of workers and the general public against the possible harmful effects of ionizing radiation and has consequently adopted the IAEA Safety Standards 115: International Basic Safety Standards (IBSS), among others, in the development of its regulations;

WHEREAS, the PNRI has revised and published in the Official Gazette CPR Part 3: Standards for Radiation Protection which is generally consistent with the IBSS;

WHEREAS, CPR Part 3 provides numerical values for clearance from regulatory control of small amounts of airborne, liquid and solid radioactive waste originating from hospitals, research institutes and industrial installations, values which are not directly applicable to large volumes of solid radioactive waste arising from nuclear installations;

WHEREAS, the removal or decommissioning of nuclear and radiation facilities after the termination of operation is expected to reduce radiological risks and the burden on future generations;

WHEREAS, an important consideration in decommissioning any nuclear facility is the possibility to clear waste material for recycling, reuse or disposal as conventional waste;

WHEREAS, the PNRI is implementing a decommissioning project for the Philippine Research Reactor (PRR-1), an activity which may result in the generation of bulk radioactive waste materials that need to be managed and disposed of properly;

WHEREAS, the PNRI develops an integrated approach for clearance criteria to release waste material from licensed activities, taking into consideration internationally accepted guidance to ensure that radiation exposure is optimized, that released materials are safely managed and that the amount of radioactive waste to be disposed of is minimized;

WHEREAS, the IAEA Safety Guide on the Application of the Concepts of Exclusion, Exemption and Clearance provides guidance to national authorities, including regulatory bodies, and operating organizations on the specific values of activity concentration for both radionuclide of natural origin and those of artificial origin that may be used for bulk amounts of material for the purpose of applying exclusion or exemption and on the possible application of these values to clearance.

WHEREAS, the IAEA Safety Report Series on the Derivation of Activity Concentration Values for Exclusion, Exemption and Clearance supports the Safety Guide on the Application of the Concepts of Exclusion, Exemption and Clearance and provides the basis for the activity concentration values for exclusion and exemption of bulk amounts of materials, which can also be used for clearance;

NOW, THEREFORE, I, ALUMANDA M. DELA ROSA, PNRI Director, by the powers vested in me do hereby issue this Order, directing the Nuclear Regulations, Licensing and Safeguards Division to adopt **IAEA Safety Guide No. RS-G-1.7 entitled "Application of the Concepts of Exclusion, Exemption and Clearance"** and **Safety Report Series No. 44 entitled "Derivation of Activity Concentration Values for Exclusion, Exemption and Clearance"** for the regulation and control of bulk amounts of radioactive materials arising from the decommissioning of PRR-1 and similar facilities, among others.

This Order shall take effect immediately and shall be enforced until revoked in writing.

(Original Signed)
ALUMANDA M. DELA ROSA, Ph.D.
Director

Approved: September 28, 2007