Ordinance No.756

of the Government of Georgia

December 31, 2014

Tbilisi

On the Approval of Technical Regulations - Procedure for Radiation Monitoring of Metal Scrap

Article 1

In compliance with Law of Georgia on "Nuclear and Radiation Security", Section 1, Article 56 and Section 2, Article 58 of the Law of Georgia on Product Safety and Free Movement Code and Article 12 of the Law of Georgia on Normative Acts, to approve the attached Technical Regulations on Procedure for Radiation Monitoring of Metal Scrap."

Article 2

The Ordinance shall come into force upon promulgation.

Prime Minister **Irakli Garibashvili**

Technical Regulations - Procedure for Radiation Monitoring of Metal Scrap

Article 1. Scope of Regulation

1. The present Technical Regulations shall establish procedures related to radiation monitoring of metal scrap as well as the legal basis for radiation inspection of metal scrap.
2. The requirements of the Technical Regulations shall apply to ferrous and nonferrous metal scrap, which represent a subject of both domestic and international trade. The requirements of the Regulations shall also apply to the metal scrap in a recycling.

Article 2. Goal and Objective of the Technical Regulations

1. The goal of the Technical Regulations is to define actions that will ensure prevention of radioactive contamination and/or presence of radioactive sources during domestic / international trade operations with metal and while performing actions related to metal recycling industry and metal scrap handling.

2. The objective of the Technical Regulations is to identify actions for detection of radioactively contaminated metal scrap, anthropogenically contaminated metal scrap and handling of radioactive sources in metal scrap.

Article 3. Definition of Terms

Terms used in these Technical Regulations have the following meanings:

a) **Radioactively contaminated metal scrap** - scrap containing radioactive source or substance or contaminated with these substances. This substance may or not be subject to regulatory control;

b) **Recipient of metal scrap -** physical person and / or legal entity exercising operations at scrap- yard (or scrap -yards);

c) **S crap- yard** - Defined territory where accepter of metal scrap performs the activities;

d) **Metal recycler** - Operator (physical person or legal entity) of metal processing facility;

e) **Person performing radiation inspection of metal scrap** - a natural or legal person holding a license for

implementation of relevant nuclear and radiation activity, which performs radiation inspection of metal scrap through expert-based and instrumental measurements;

f) **Metal scrap (ferrous and nonferrous)** - industrial or / or household waste suitable for recycling, derived from the item of the same purpose as well as from various equipment, mechanisms, structures, conveyances, military equipment components resulting from loss of their function and designation;

g) **Metal scrap production** - activities that involve collection, purchasing, transport, conditioning, temporary storage of scrap metal (at scrap yards and / or areas of metal recycling facilities);

h) **Metal scrap conditioning** - Combination of sorting, compacting, compression, and other activities to reduce volume of scrap metal;

i) **Local source of radiation** - a single, separable fragment of scrap metal of minimal volume with equivalent dose rate (excluding natural background) of gamma radiation at surface (distance not more than 10 cm) exceeding 0.2 mSv / h;

j) **Equivalent dose rate (ERD)** - equivalent dose rate of gamma radiation on the surface of scrap metal (distance not more than 10 cm) excluding natural background of scrap metal batch / fragment;

k) **Maximum value of equivalent dose rate (MVEDR)** - Maximum value of equivalent dose rate on the surface of gamma emitter radionuclides in scrap metal (distance not more than 10 cm), excluding a natural background;

l) **Radioactive contamination of metal scrap** - contamination on the surface of local sources of radiation in scrap metal where the density flow of alpha emitter is greater than 0.04 α part./ cm^2 sec, or density flow of beta emitter - more than 0.4 β part./ cm^2 sec;

m) **Natural background** - the rate of gamma radiation dose caused by cosmic radiation, natural and anthropogenic radionuclides existing in soil, water, atmospheric air and other biosphere elements.

Article 4. Expert-based and Instrumental Inspection of Metal Scrap

1. Determination of presence of radioactive substances in metal scrap shall be possible only through appropriate instrumental measurements.

2. All the measuring devices for radiation inspection shall have a calibration certificate.

3. The method and procedure of measurement related to radiation inspection of scrap metal is defined in Appendix 1 of these Technical Regulations.

Article 5. Obligations of state authorities

1. Legal Entity of Public Law - Nuclear and Radiation Safety Agency (hereinafter - the Agency) of the Ministry of Environment and Natural Resources Protection of Georgia, within their competence, shall implement relevant response actions in case of detection of radioactivity in scrap metal, according to the present Technical Regulations and rule established by the applicable legislation.

2. Ministry of Internal Affairs of Georgia shall control radioactive contamination of scrap metal at the border crossing points, in accordance with standard procedures established by the Georgian legislation, and within their competence, provide response actions in case of detection of radioactively contaminated scrap metal at scrap yards and areas of metal recycling facilities.

3. The Ministry of Finance of Georgia shall implement customs control procedures of import, export, transit and re-export of metal scrap as established by the Georgian legislation.

Decree No. 62 of the Government of Georgia, February 11, 2016, web site, 15.02.2016

Article 6. Procedures for Detection and Response to Radioactive Contamination or Radioactive Source in Metal Scrap

1. In case if recipient of metal scrap at the scrap yard has a suspicion on the presence of radioactive substance in the accepted metal, he/she is obliged to isolate suspicious object (objects) to restrict access to personnel and other persons and inform the LEPL "112" of the Ministry of Internal Affairs of Georgia or/and the Agency.

2. The metal recycler is obliged to check the existence of radioactivity in the scrap metal prior to recycling procedure. In case of detection of radioactive sources or radioactive contamination in a scrap metal batch and territory of metal recycling facility, an exporter, a recipient of scrap metal, a scrap metal recycler and a person performing radiation inspection of metal scrap shall be obliged to provide a safe perimeter depending on gamma radiation dose with no more than 0.1 mSv / h and remove personnel and other persons to at least 50 meters away from this area and inform the LEPL "112" of the Ministry of Internal Affairs of Georgia or/and the Agency.

3. In case of detection of radioactive contamination or radioactive sources in metal scrap at border crossing points of Georgia, response shall be carried out in accordance with the Georgian legislation.

4. The Ministry of Internal Affairs of Georgia shall be responsible for the protection of a safe perimeter of radioactive fragments and / or radioactive sources separated from metal scrap, physical protection of radioactively contaminated batch of scrap metal, its fragments and / or radioactive sources, and other actions defined by the Georgian legislation.

5. The Agency shall conduct primary radiological assessment, provide on-site coordination of actions by state agencies and natural and legal entities, supervise a separation process of radioactively contaminated fragments from scrap metal and / or radioactive sources detected in scrap metal and, if necessary, ensure their safe placement into a relevant container.

6. Emergency Management Agency of the Ministry of Internal Affairs of Georgia shall, if necessary, decontaminate people, technical equipment and subjects contaminated with radioactive substances detected in a scrap metal. Also, in cooperation with the Agency, it shall participate in transport of fragments of contaminated scrap metal and / or radioactive sources to the area of safe placement, if required.

7. If required, radioactive fragments from metal scrap and/or radioactive sources separated from the metal scrap may be temporarily placed on the territory of a scrap yard or scrap metal recycling facility, as well as on the border crossing points of Georgia, in specially arranged storerooms or allocated areas.

8. Gamma radiation rate at external surface of temporary storerooms for radioactive fragments of metal scrap and / or radioactive sources separated from the metal scrap shall not exceed 0.1 mSv / h, in case of appropriate packaging of such fragments and / or radioactive sources. In case of absence of such packaging, safety perimeter shall be provided with no more than a radiation dose of 0.1 mSv /h as well as removal of personnel and other persons to at least 50 meters away from the safety perimeter.

Decree No. 62 of the Government of Georgia, February 11, 2016, web site, 15.02.2016