

Official Gazette

We, Abdullah II bin Al-Hussein, King of the Hashemite Kingdom of Jordan, pursuant to Article (31) of the Constitution and based on the decision of the Council of Ministers dated 7/2/2016

We order the enactment of the following regulation:

Regulation No. (32) of 2016

Regulation for the Transport of Radioactive Materials

Issued pursuant to Paragraph (g) of Article (26) of the Radiation Protection, Safety and Nuclear Security Law No. (43) of 2007

Article 1

This regulation shall be called the Regulation for the Transport of Radioactive Materials of the year (2016) and shall come into force from the date of its publication in the Official Gazette.

Article 2

a) The following words and phrases, wherever they appear in this regulation, shall have the meanings assigned to them below, unless the context indicates otherwise:

Law: Radiation Protection, Safety and Nuclear Security Law

Authority: Energy and Minerals Regulatory Commission.

Council: Board of Commissioners of the Authority.

Radioactive Material: Any material containing radioactive isotopes in which both the activity concentration and total activity in the shipment exceed the values determined by the Authority according to instructions issued for this purpose.

Transportation Operations: Movement of radioactive materials and preparation of shipments of radioactive materials and parcels, their loading and transportation including the design and manufacture of packaging materials and their maintenance, repair, storage during transit, unloading and delivery to their final destination.

Fissile Materials: Uranium-233, Uranium-235, Plutonium-239, Plutonium-241, and any mixture containing any of these materials.

Supply Licensee: A person licensed by the Authority to supply radioactive materials in accordance with the provisions of the Law and the regulations issued thereunder for the purpose of supplying radioactive materials.

Transportation Licensee: A person licensed by the Authority to transport radioactive materials in accordance with the provisions of the Law and the regulations issued thereunder for the purpose of transporting radioactive materials.

Usage Licensee: A person licensed by the Authority to use radioactive materials in accordance with the provisions of the Law and the regulations issued thereunder for the purpose of possessing and using radioactive materials.

Incident: Any incident or event that occurred or was about to occur in or outside the facility, whether intentional or unintentional, including operational errors or equipment malfunctions, which could have actual or potential consequences relating to radiation protection or nuclear safety and security that cannot be ignored.

Plan: The policies, objectives, special emergency operations, authorities, responsibilities, and procedures necessary to address an emergency in a systematic, coordinated, and effective manner, and is used primarily to prepare other related plans, procedures, and checklists.

b) The definitions contained in the Law shall apply wherever they are mentioned in this Regulation, unless the context indicates otherwise.

Article 3

a) Subject to the provisions of paragraph (B) of this Article, the provisions of this Regulation shall apply to:

1. The transport of radioactive materials, including fissile materials, whether transported by sea, air, or land, including transit transport, regardless of the means of transport used.
2. The transport of radioactive materials within a single facility if the transport operations will take place between separate buildings within the same facility, provided that the transport activity is subject to licensing by the Authority.
3. The transport of radioactively contaminated materials, radioactive waste, spent nuclear fuel, and any other materials specified by the Authority in accordance with instructions issued for this purpose.

b) The licensee authorized to transport in accordance with the provisions of this Regulation shall notify the Authority in writing of the transport of radioactive materials on a periodic basis.

Article 4

a) Radioactive material may only be transported in accordance with the conditions and controls specified in this Regulation and the instructions issued thereunder, and after obtaining the necessary license from the Authority for transport and authorization for each shipment separately

b) In the case of imported radioactive material, its transfer from its source to the Kingdom may not commence except after obtaining a permit from the Authority.

c) Imported radioactive material may not be removed from border crossings or customs areas, nor may it be cleared through customs, except with the approval of the Authority and in compliance with the secure transport requirements stipulated in this regulation and the instructions issued thereunder.

d) No consignment containing imported or exported radioactive material may be inspected except by persons qualified for this purpose and in a place appropriate to the nature of the radioactive material being transported, provided that the necessary protective equipment is available in accordance with the instructions and in the presence of a representative of the Authority.

Article 5

a) The licensee for use or transport, as the case may be, shall submit an application to the Authority for a permit to transport the radioactive material on the form approved for this purpose, accompanied by the necessary documents and data in accordance with the provisions of this system and the instructions issued thereunder.

b) The licensee for use shall obtain the Authority's prior approval for any amendment to the data or documents upon which the permit was granted.

Article 6

The permit issued by the Authority shall be automatically revoked if the process of transporting the radioactive material does not commence within the period specified therein.

Article 7

The transport licensee may not receive any package containing radioactive material for transport purposes unless it has been verified that the licensee for use has obtained the necessary permit for transport from the Authority and is using the means of transport licensed for this purpose.

Article 8

The licensee must notify the Authority in writing, according to the form adopted for this purpose, of the following:

- a) The arrival of the radioactive material at its facility, the inability to deliver it to its facility, or the cancellation of the transport operation.
- b) The date of arrival of the imported radioactive material in the Kingdom, at least three working days before the scheduled arrival date.

Article 9

a) Subject to the provisions of paragraph (B) of this Article, radioactive material may only be transported in packages specifically designated for this purpose and appropriate to the nature of the material in terms of its type and category, and in accordance with the instructions issued by the Authority for this purpose.

b) The transport of low-level radioactive material is permitted without placing it in packages specifically designated for this purpose, provided that the requirements for the safe transport of this material are observed and in accordance with the instructions issued by the Authority for this purpose.

Article 10

a) When transporting radioactive material in a single package or in a single shipment consisting of several packages, it is required that this material does not exceed the limits related to quantity, mass, radiation dose, or level of radioactive contamination, as determined by the Authority and in accordance with the instructions issued by it for this purpose.

b) The licensees for transport and use shall measure the levels of radiation dose and radioactive contamination at the beginning and end of the transport of the radioactive material to verify that it does not exceed the limits referred to in paragraph (A) of this Article

Article 11

No type of package intended for transporting radioactive materials may be imported, produced, manufactured, or maintained except after obtaining a license from the Authority

and adhering to the technical specifications and conditions specific to each type of package, and in accordance with the instructions issued by the Authority for this purpose.

Article 12

Those licensed to supply, transport, and use, as the case may be, must comply with the following:

- a) Affix labels, identification and warning signs, and data cards appropriate to the nature of the radioactive material to each package containing it during transport, in accordance with the instructions issued by the Authority for this purpose.
- b) Documents and papers related to the radioactive material must be attached to the shipping document at all stages of its transport. These documents and papers shall be specified in accordance with the instructions issued by the Authority for this purpose.

Article 13

a) The following conditions must be met by the land transport vehicle designated for transporting radioactive materials:

- 1. Availability of devices and equipment for radiation protection, personal protective equipment, and public safety.
- 2. Availability of the technical conditions and specifications specified in the instructions issued by the Authority for this purpose.
- 3. Approval by the Authority for its licensing for the purpose of transporting radioactive materials.
- 4. Subjection to the necessary periodic inspection and maintenance.

b) The personnel working on the transport vehicle, including drivers and attendants, must be qualified and licensed for this purpose and in accordance with the instructions issued by the Authority for this purpose.

Article 14

The means of transporting the radioactive material, its route, or its destination may not be changed except in emergency situations, provided that the Authority is immediately notified of the change and its reasons.

Article 15

The licensee for transport must, before placing the radioactive material on the transport vehicle, adhere to the following:

- a) Safe transport regulations concerning the proper handling of packages intended for transporting radioactive material.
- b) Regulations regarding the accompaniment of individuals involved with radioactive material.
- c) Preventing the mixing of packages intended for transporting radioactive material with people and luggage.

Article 16

- a) Licensees for use or transport shall verify the availability of the necessary security protection for the radioactive material during the transport process in order to prevent theft, loss, or diversion of such material.
- b) The Authority shall determine the cases in which security protection is required when transporting radioactive material, and the conditions and procedures related to this protection.
- c) The competent official authorities shall provide assistance to the Authority to provide the necessary security protection and escort for the transport of radioactive material in accordance with the provisions of paragraph (a) of this Article during the transport process, at the expense of the licensee.

Article 17

- a) Radioactive material may not be stored during the transport process without obtaining prior approval from the Authority and in accordance with the instructions issued by the Council for this purpose.
- b) Imported radioactive material or material intended for transit may be stored in the customs area in cases of necessity and in accordance with the following conditions:
 - 1. The storage period shall not exceed thirty days from the date of arrival of the imported radioactive material
 - 2. The Authority must approve the storage in advance and may, for justifiable reasons, extend the period referred to in paragraph (1) of this section for an additional period not exceeding thirty days.

Article 18

Licensees for use, transport, and supply are obligated, when carrying out transport operations of fissile materials, to comply with the controls and requirements for the safe transport of these materials, in addition to the safe transport requirements stipulated in this system and the instructions issued thereunder.

Article 19

a) Licensees for use, transport, and supply are obligated to develop an emergency plan for each transport operation, provided that the following applies:

1. The plan is appropriate to the nature of the radioactive material being transported, the means of transport used, and the route of the journey.
2. The plan must include preventive measures to prevent accidents, a mechanism for dealing with and addressing potential accidents, and mitigating their effects during the transport process.
3. The plan must be submitted to the Authority for approval before commencing the transport process.

b) Licensees authorized to supply, transport, and use radioactive material must inform the Authority and other relevant official bodies of any accident occurring during the transport process immediately upon its occurrence, and provide the Authority with a detailed report on the accident, its causes, effects, and the measures taken to address it within a period not exceeding one week from its occurrence.

Article 20

Without prejudice to the powers of the Authority stipulated in the law and the regulations issued thereunder, the Authority may, in the event of a violation of any provision of this system or the instructions issued thereunder, or in the event of a breach of any of the applicable controls for the safe transport of radioactive material, revoke the license or permit previously granted for carrying out the transport process, and may return the radioactive material to its source at the expense of the licensee.

Article 21

Licensees for use and transport are obligated, upon completion of the transport process, to measure the level of radioactive contamination in the means of transport and the package used. If this level exceeds the limit determined by the Authority, they must remove the contamination immediately using qualified and licensed personnel and in accordance with the instructions issued by the Authority for this purpose.

Article 22

Licensees for supply, transport, and use must handle, in a safe manner, empty packages previously used in the transport of radioactive materials, whether or not these packages are reusable for transporting radioactive materials, in accordance with the instructions issued by the Authority for this purpose.

Article 23

Licensees authorized to supply, transport, and use radioactive materials shall maintain records, reports, and data related to the transport of radioactive material and provide them to the Authority upon request without delay.

Article 24

The requirements, provisions, and principles related to radiation protection stipulated in the Law and the regulations issued thereunder are an integral part of the requirements for the safe transport of radioactive materials stipulated in this Regulation.

Article 25

The Council shall issue the necessary instructions for the implementation of the provisions of this Regulation, including:

- a) Radioactive materials not subject to the provisions of this Regulation.
- b) Documents and data that must be attached to and submitted with the application for a license or permit to transport radioactive materials.
- c) Cases in which an insurance policy is submitted by the licensee for transport or the licensee for use to cover risks associated with transport operations and damages that may befall third parties.
- d) Technical specifications and conditions specific to each type of package designated for transporting radioactive materials and to each of its categories, including containers and tanks.
- e) Bases for classifying radioactive materials and bases for determining the types and categories of packages to be used for transporting radioactive materials.
- f) Safe transport regulations relating to the placement of packages on the means of transport.
- g) Regulations and conditions for the storage of radioactive materials.

- h) Regulations and requirements for the safe transport of fissile materials and their scope of application.
- i) Regulations for inspecting and maintaining the means of transporting radioactive materials, and the devices and equipment that must be available therein.
- j) Regulations for the safe handling of empty packages and the principles of such handling.
- k) Records, reports, and data to be organized.

7/2/2016

Abdullah II bin Al-Hussein

Dr. Abdullah Al-Nusour
*Prime Minister and Minister of
Defense*

Dr. Muhammad Mahmoud Al-
Thunaibat
*Deputy Prime Minister and Minister
of Education*

Muhammad Nasser Sami Judeh
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Dr. Hazem Al-Nasser
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