

Enforcement Decree of the Act on Physical Protection and Radiological Emergency

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Chapter I General Provisions

Article 1 (Purpose)

The purpose of this Decree is to provide for matters delegated by the Act on Physical Protection and Radiological Emergency and matters necessary for the enforcement thereof.

Article 2 (Definition)

(1) Terms used herein are defined as follows:

1. “Protected zones” shall mean zones surrounded by physical barriers designed to protect radioactive materials or nuclear reactor facilities under Article 2 (1) 1 of the Act on Physical Protection and Radiological Emergency (“the Act” hereinafter”).
2. “Core zones” shall mean zones set up in order to protect nuclear reactor facilities that may have an irrevocable radiation impact either directly or indirectly due to acts of sabotage in the protected zones.
3. The term “physical barrier” means a fence, wall or similar obstructions that prevent or delay infiltration and facilitate access control.

(2) Terms used herein other than those set forth in the Act and the foregoing Paragraph (1) shall have the same meanings as provided in the Nuclear Safety Act and the Presidential Decree thereof.

Article 3 (Nuclear Materials)

The “materials as prescribed by the Presidential Decree” provided in Article 2 (1) 1 of the Act mean any of the following materials:

1. Uranium 233 and compounds thereof;
2. Uranium 235 and compounds thereof;
3. Thorium and compounds thereof;
4. Plutonium (meaning the plutonium except for those of which the enrichment of plutonium 238 is in excess of 80 percent) and compounds thereof;
5. Materials containing not less than one of such materials as set forth in the foregoing Subparagraphs 1 through 4; and
6. Materials containing uranium and compounds thereof or thorium and compounds thereof other than those materials as set forth in the foregoing Subparagraphs 1 through 5.

Article 4 (Facilities Related to Use of Nuclear Energy)

The “other facilities related with the use of nuclear energy as prescribed by the Presidential Decree” in Article 2 (1) 2 of the Act mean any of the following facilities:

1. Related facilities of a nuclear power reactor or a nuclear reactor for research;
2. A nuclear reactor for educational purposes with the thermal output of not less than 100 watts and related facilities thereof;
3. A foreign nuclear-powered ship that enters or leaves a harbor of the Republic of Korea (meaning a ship owned by a person, who falls under any subparagraph of Article 31 (1) of the Nuclear Safety Act, with a nuclear reactor installed in it, excluding military ships); and
4. Facilities that produce, sell or use radioisotopes of not less than 18.5 petabecquerels.

Article 5 Deleted.

Article 6 (Other Nuclear Licensees)

The “persons as prescribed by the Presidential Decree” provided in Article 2 (1) 10 (i) of the Act mean those who have obtained a permit for the production, sale or use of radioisotopes of not less than 18.5 petabecquerels among those who have obtained a permit to produce, sell or use radioisotopes (hereinafter referred to as “production permit, etc.”) under Article 53 of the Nuclear Safety Act.

Chapter II Physical Protection of Nuclear Materials and Nuclear Facilities

Article 7 (Assessment of Threats and Establishment of a Physical Protection System)

(1) The Commission established under Article 3 of the Act on Establishment and Operation of the Nuclear Safety and Security Commission (hereinafter referred to as the “Commission”) shall assess threats to nuclear facilities, etc. and formulate response standards by threat (hereinafter referred to as “threat response design standards”) every three (3) years in consideration of each of the following for the implementation of physical protection policies as provided in Article 3 (1) of the Act. Provided, however, that :

1. Cause of threat;
2. Possibility of the occurrence of threat; and
3. Consequences of occurrence of threat.

(2) The Nuclear Safety and Security Commission shall set up a physical protection system for nuclear facilities, etc. by reflecting the threat response design standards formulated as provided in the foregoing Paragraph (1).

(3) The Commission may request assistance from the heads of central government agencies to efficiently assess the risks under paragraph 1. In such a case, the Commission shall request assistance from the director of the National Intelligence Service with priority for matters related to the prevention of electronic intrusions and the security of the computers and information systems of nuclear reactor facilities.

(4) The “public institutions, public groups and social groups as prescribed by the Presidential Decree” provided in Article 4 (3) of the Act mean any of the following institutions and groups (hereinafter referred to as “designated institutions”):

1. Metropolitan/provincial police agencies or police stations that have competent jurisdiction over all or a part of the emergency planning zone;
2. National 119 Rescue Service;
3. Fire defense headquarters and fire stations that have competent jurisdiction over all or a part of the emergency planning zone;
4. Offices of education that have competent jurisdiction over all or a part of the emergency planning zone;
5. The coastal guard and safety station that has jurisdiction over all or a part of a radiation emergency plan zone;
6. Regional meteorological offices that have competent jurisdiction over all or a part of the emergency planning zone;
7. Community health centers that have competent jurisdiction over all or a part of the emergency planning zone;
8. Military units that have competent jurisdiction over all or a part of the emergency planning zone as designated by the Minister of National Defense;
9. Korea Institute of Nuclear Safety under the Korea Institute of Nuclear Safety Act (hereinafter referred to as “Korea Institute of Nuclear Safety”);
10. Korea Institute of Radiological and Medical Sciences as provided in Article 13 (2) of the Act on Promotion of Utilization of Radiation and Radioisotopes (hereinafter referred to as “Korea Institute of Radiological and Medical Sciences”);
11. Korea Radioisotope Association organized with the permission of the Nuclear Safety and Security Commission in accordance with Article 32 of the Civil Code and the Act on the Establishment and Operation of Public-Service Corporations;
12. Korean National Red Cross under the Organization of the Korean National Red Cross Act; and
13. Other institutions and groups designated by the Nuclear Safety and Security Commission as deemed necessary in his reasonable discretion, for the establishment of the physical protection system.

(5) The “necessary measures as prescribed by the Presidential Decree” provided in

Article 4 (3) of the Act mean any of the following:

1. Management of the installation/operation of facilities and equipment related with physical protection to effectively cope with threats to nuclear facilities, etc. (only in the case of nuclear licensees);
2. Operation of organizations and personnel related with physical protection to effectively cope with threats to nuclear facilities, etc. (only in the case of nuclear licensees);
3. Education and training for those who perform physical protection-related duties; and
4. Protective actions if the Nuclear Safety and Security Commission acquires information on specific threats to nuclear facilities, etc.

Article 8 (Duties of Chairman, etc.)

(1) The chairman of the Physical Protection Council of Nuclear Facilities, etc. (hereinafter referred to as the “Protection Council”) as provided in Article 5 (1) of the Act shall supervise the duties of, and represent, the Protection Council.

(2) In those cases where the chairman of the Protection Council cannot perform his duties for unavoidable reasons, a member thereof designated by the chairman in advance shall perform such duties.

Article 9 (Members of the Protection Council)

The “employees of the central administrative agencies or heads of the institutions/groups concerned as prescribed by the Presidential Decree” provided in Article 5 (2) of the Act mean any of the following:

1. 3rd grade officials or the same level employees of the National Intelligence Service as designated by the director of the National Intelligence Service;
2. President of the Korea Institute of Nuclear Nonproliferation and Control under the Article 6 of Nuclear Safety Act; and
3. has been deleted. <24, July, 2015>

Article 10 (Operation of the Protection Council)

(1) The Protection Council shall be convened when deemed necessary by the chairman thereof, in his reasonable discretion.

(2) The Protection Council shall make decisions with the presence of a majority of registered members thereof and the consent of a majority of the members present.

(3) The Protection Council shall have one (1) secretary nominated by the Chairperson of Nuclear Safety and Security Commission among the employees of the Nuclear Safety and Security Commission.

(4) Matters necessary for operation of the Protection Council other than those provided herein shall be determined by the chairman of the Protection Council

based on a decision by the Protection Council.

Article 11 (Working-Level Protection Council)

(1) The Protection Council shall set up a working-level protection council under its command to seek efficient operation of the Protection Council including deliberation of agenda to be submitted to the Protection Council and coordination of cooperation among the institutions concerned.

(2) The Director level officials among those in charge of physical protection and protection work in the Commission shall serve as the chairman of the working-level protection council (hereinafter referred to as “working-level protection council”) as provided in the foregoing Paragraph (1) and each of the following shall serve as the members thereof:

1. Grade 3 government officials or ordinary government officials, respectively, who belong to a group of senior government officials, respectively nominated by the heads of the central administrative agencies to which the members of the Protection Council belong (including corresponding military officers in the case of the Ministry of National Defense); and
 2. One person respectively nominated by the heads of the institutions and groups concerned among the employees thereof as provided in Subparagraphs 2 and 3 of Article 9 hereof.
- (3) The working-level protection council shall be convened when deemed necessary by the chairman thereof, in his reasonable discretion.
- (4) Matters necessary for the organization and operation of the working-level protection council other than those provided in the foregoing Paragraphs (1) through (3) shall be determined by the chairman of the working-level protection council based on a decision by the working-level protection council.

Article 12 (Allowance, etc.)

Allowance and travel expenses may be paid to the members of the Protection Council or working-level protection council present in a meeting thereof within the scope of the budget thereof. Provided, that said provision shall not apply in cases where a member thereof, who is a government employee, attends such meeting in direct relation to his duties.

Article 13 (Installation of Local Protection Council)

The “nuclear facilities, etc. as prescribed by the Presidential Decree” provided in Article 7 (1) of the Act mean any of the following facilities:

1. Nuclear power reactor and related facilities thereof;
2. Nuclear reactor for research with the output of not less than 2 megawatts,

- among nuclear reactors for research, and related facilities thereof; and
3. Storage and processing facilities of spent nuclear fuels and adjunct facilities thereof among the storage, processing and disposal facilities of radioactive wastes as provided in Subparagraph 18 of Article 2 of the Nuclear Safety Act.

Article 14 (Composition and Operation of Local Protection Council)

(1) Each of the following shall serve as members of the metropolitan city/ provincial protection council as provided in Article 7 (1) of the Act:

1. Administrative vice mayor/administrative vice governor of the relevant special metropolitan city/metropolitan city/province (hereinafter referred to as “metropolitan city/province”) (meaning the vice mayor I for administrative affairs in the case of the special metropolitan city);
2. Bureau chief in charge of physical protection of nuclear facilities, etc. of the relevant metropolitan city/province;
3. Branch head of the National Intelligence Service that has competent jurisdiction over the relevant metropolitan city/province;
4. Head of a metropolitan/provincial police agency that has competent jurisdiction over the relevant metropolitan city/province;
5. Regional commander of a military unit that has competent jurisdiction over all or a part of the relevant metropolitan city/province, as designated by the Minister of National Defense;
6. Head of a maritime police station that has competent jurisdiction over all or a part of the relevant metropolitan city/province; and
7. Heads of institutions/groups related with physical protection of nuclear facilities, etc. that have competent jurisdiction over all or a part of the relevant metropolitan city/province or those who have knowledge and experience regarding physical protection of nuclear facilities, etc. as commissioned by the chairman of the metropolitan city/provincial protection council.

(2) Each of the following shall serve as members of the city/county/district protection council as provided in Article 7 (1) of the Act:

1. Deputy mayor/deputy chief of the relevant city/county or autonomous district (hereinafter referred to as “city/county/district”);
2. Division chief in charge of physical protection of nuclear facilities, etc. of the relevant city/county/district (bureau chief if there exists a bureau);
3. Branch head of the National Intelligence Service that has competent jurisdiction over the relevant city/county/district;
4. Head of the police station that has competent jurisdiction over the relevant city/county /district;
5. Head of a military unit that has competent jurisdiction over all or a part of the relevant city/county/district as designated by the Minister of National Defense;
6. Head of the coastal guard and safety station that has jurisdiction over all or

- a part of the related city, county or district.; and
7. Heads of institutions/groups related with physical protection of nuclear facilities, etc. that have competent jurisdiction over all or a part of the relevant city/county/district or those who have knowledge and experience regarding physical protection of nuclear facilities, etc. as commissioned by the chairman of the city/county/district protection council.
 - (3) The chairman of the metropolitan city/provincial protection council and city/county/district protection council (hereinafter referred to as “local protection council”) shall supervise the duties of, and represent, the local protection council.
 - (4) In those cases where the chairman of the local protection council cannot perform his duties for unavoidable reasons, a member thereof nominated in advance by the chairman shall perform such duties.
 - (5) The local protection council shall be convened when deemed necessary by the chairman thereof, in his reasonable discretion.
 - (6) The local protection council shall make decisions with the presence of a majority of registered members thereof and the consent of a majority of the members present.
 - (7) Allowance and travel expenses may be paid to the members of the local protection council present in a meeting thereof within the scope of the budget thereof. Provided, that said provision shall not apply in those cases where a member thereof, who is a government employee, attends such meeting in direct relation to his duties.
 - (8) Matters necessary for the operation of the local protection council other than those provided herein shall be determined by the chairman of the local protection council based on a decision by the local protection council.

Article 15 (Classification of Nuclear Materials by Grade)

Classification by grade of nuclear materials that are subject to physical protection as provided in Article 8 (1) of the Act shall be specified in the attached Table 1.

Article 16 (Protection Requirements of Nuclear Facilities, etc.)

The requirements in regard to physical protection of nuclear facilities, etc. (hereinafter referred to as the “protection requirements”) as provided in Article 8 (2) of the Act shall be specified in the attached Table 2.

Article 17 (Application for Approval of Physical Protection Regulations, etc.)

(1) Nuclear-energy related business operators who desire to obtain approval of their physical protection facilities, equipment, operation systems, physical security regulations, emergency protection plans, and information system security regulations under the main text of Article 9 (1) of the Act other than its items (“physical protection regulations etc.” hereinafter) shall submit their approval application to the

Commission five months before starting to use the relevant nuclear energy facilities.

(2) To revise the physical protection regulations under the main text of Article 9 (1) of the Act, nuclear-energy related business operators shall submit to the Commission an application indicating the contents of and reason for the revision.

(3) To approve physical protection regulations or their revision under the main text of Article 9 (1) of the Act, the Commission shall consult the director of the National Intelligence Service before approving the regulations or their revision when the relevant nuclear energy facility is subject to security measurement or evaluation under Article 36 of the Security Service Regulations.

Article 17-2 (Education on Physical Protection)

- (1) The education on physical protection under the Article 9-2 (1) shall be divided to new education and regular education
- (2) The Commission shall provide with the education under Paragraph (1) per job of the trainee.
- (3) Matters necessary for the contents and method of the education under Paragraphs (1) and (2) shall be provided for in the Ordinance of the Prime minister.

Article 18 (Inspection)

- (1) Pursuant to Article 12 (1) of the Act, a nuclear licensee shall undergo each of the following inspections by the Nuclear Safety and Security Commission:
1. Initial inspection: Inspection of protection measures as regards the relevant nuclear facilities prior to carry-in of nuclear materials, radioactive material or radioactive wastes into the nuclear facilities; Provided, however, that the case where radioactive material is carried in for the purpose of non-destructive test (other than the proper purpose of the facilities) provided for in Article 2 of the Act on Promotion and Management of Technology for Non-destructive Test shall be excluded.
 2. Regular inspection: Inspection of protection measures as regards the relevant nuclear facilities, etc. by place of business or site every two (2) years;
 3. Transportation inspection: Inspection of protection measures as regards the relevant nuclear materials in cases where nuclear materials are to be transported to the relevant place of business from a place other than such place of business or to be transported to the relevant place of business by carrying in such materials into the country from a foreign nation; and
 4. Special inspection: Inspection of physical protection as regards the relevant nuclear facilities, etc. in any of the following cases:
 - a. If an accident related with physical protection occurs at nuclear facilities, etc.; and
 - b. If approval of change of physical protection regulations, etc. is obtained in

accordance with the main clause of Article 9 (1) of the Act other than each subparagraph thereof.

(2) In conducting an inspection as provided in Article 12 (1) of the Act, the Nuclear Safety and Security Commission may perform such inspection in alignment with a security measurement or security accident investigation as provided in Article 37 or 38 of the security operational regulations, if requested by the director of the National Intelligence Service.

(3) An application for an initial inspection or transportation inspection as provided in Subparagraph 1 or 3 of the foregoing Paragraph (1) shall be made at least fourteen (14) days prior to the commencement of carry-in or transport of the relevant nuclear materials.

(4) If the Nuclear Safety and Security Commission intends to conduct such inspections as set forth in Subparagraph 2 or 4 of the foregoing Paragraph (1), he shall notify the nuclear licensee of an inspection plan containing the list of inspectors, schedule and details of inspection and so forth at least ten (10) days prior to the commencement of such inspection.

(5) Details as regards the method and so forth of such inspections as set forth in each subparagraph of the foregoing Paragraph (1) shall be determined by the Nuclear Safety and Security Commission.

Chapter III Radiological Emergency Management Measures

▣ Section 1 Radiological Disaster Control and Response System

Article 19 (Standards Regarding Types of Radiological Emergencies, etc.)

The standards as regards the types of radiological emergencies and response procedures by type of emergencies as provided in Article 17 (2) of the Act shall be specified in the attached Table 3.

Article 20 (Formulation of a National Radiological Emergency Plan, etc.)

(1) The National Radiation Disaster Prevention Plans (“National Radiation Disaster Prevention Plans” hereinafter) under Article 18 paragraph 1 of the Act shall be developed every five years.

(2) The National Radiation Disaster Prevention Plans shall be developed in connection with the National Safety Control Master Plans under Article 22 paragraph 1 of the Framework Act on the Management of Disasters and Safety and shall include the following:

1. The policy objectives and basic directions of services related to radiation emergency and radiation disaster prevention (“radiation disaster, etc.” hereinafter).
 2. Tasks of the radiation disaster, etc. prevention services.
 3. Plans for investment in radiation disaster, etc. prevention services.
 4. The agencies which the Nuclear Safety and Security Commission shall notify concerning radiation disasters, etc. and the relevant notification methods and procedures.
 5. Other matters necessary for radiation disaster, etc. prevention services.
- (3) The Nuclear Safety and Security Commission shall instruct the metropolitan city mayor/provincial governor and city mayor/county chief/district chief (meaning the head of an autonomous district; hereinafter the same shall apply), who have competent jurisdiction over all or a part of the emergency planning zone, of the national radiological emergency plan instructed as provided in the foregoing Paragraph (2) by October 15 of each year.
- (4) The Nuclear Safety and Security Commission and the heads of the central administrative agencies concerned shall instruct the heads of designated institutions, by October 15 of each year, of the matters delegated to them among the national radiological emergency plan instructed as provided in the foregoing Paragraph (2).

Article 20-2 (Development of National Radiation Disaster Prevention Action Plans)

- (1) The Nuclear Safety and Security Commission shall develop annual execution plans (“National Radiation Disaster Prevention Action Plans” hereinafter) based on the National Radiation Disaster Prevention Plans.
- (2) The Nuclear Safety and Security Commission shall develop the National Radiation Disaster Prevention Action Plans based on the time specified for the development and notification thereof under Article 27 paragraph 1 of the Enforcement Decree of the Framework Act on the Management of Disasters and Safety.

Article 21 (Development of Regional Radiation Disaster Prevention Plans)

- (1) The Nuclear Safety and Security Commission shall prepare guidelines on the development of regional radioactive disaster prevention plans pursuant to Article 19 paragraph 1 of the Act based on the National Radiation Disaster Prevention Plan and the National Radiation Disaster Prevention Action Plan, and shall notify the Special Metropolitan City Mayor, Metropolitan City Mayors, Do Governors, the Governor of a Special Self-Governing Province (hereinafter referred to as “Mayor/Governor”) and the heads of cities, counties, and districts (referring to the head of autonomous districts) having jurisdiction over all or part of radiation emergency planning zones together with the National Radiation Disaster Prevention Action Plan.
- (2) The mayors, governors, heads of cities, counties, and districts having jurisdiction

over all or a part of the radiation emergency planning zones shall follow the National Radiation Disaster Prevention Plan, the National Radiation Disaster Prevention Action Plan, and the guidelines on the development of regional radiation disaster prevention plans as specified under paragraph 1 when they prepare their regional radiation disaster prevention plans pursuant to Article 19 paragraph 1 of the Act.

(3) The mayors, governors, and heads of cities, counties, and districts having jurisdiction over all or a part of the radiation emergency planning zones shall prepare their regional radiation disaster prevention plans in accordance with the City and Provincial Safety Management Plans or the city, county and district safety management plans pursuant to Article 29 paragraph 3 of the Enforcement Decree of the Framework Act on the Management of Disasters and Safety.

(4) The mayors, governors, and heads of cities, counties, and districts having jurisdiction over all or a part of the radiation emergency planning zones shall submit their regional radiation disaster prevention plans developed pursuant to paragraph 3 to the Nuclear Safety and Security Commission, without delay.

Article 22 (Application for Approval of a Radiological Emergency Plan)

(1) Pursuant to Article 20 (1) of the Act, a nuclear licensee shall formulate a radiological emergency plan (hereinafter referred to as “radiological emergency plan”) containing each of the following and submit an application for approval thereof to the Nuclear Safety and Security Commission:

1. Matters related to the emergency planning zone of the relevant nuclear facilities;
2. Matters related to the organization and duties to prepare for a potential radiological disaster, etc.;
3. Matters related to procurement of radiological disaster response facilities and equipment as provided in Article 35 (1) of the Act;
4. Matters related to the detailed standards for radiological emergencies by type in consideration of the relevant nuclear facilities;
5. Matters related to response actions at the initial stage of an accident;
6. Matters related to response activities regarding a radiological disaster, etc.;
7. Matters related to restoration of a radiological disaster, etc.;
8. Matters related to radiological emergency training and exercise; and
9. Other matters deemed necessary by a nuclear licensee to be prepared for a potential radiological disaster, etc. at nuclear facilities, etc.

(2) If any nuclear licensee intends to change a radiological emergency plan as provided in the main clause of Article 20 (1) of the Act, he shall submit to the Nuclear Safety and Security Commission an application for approval of change stating the matters of and reasons for such change.

Article 22-2 (Procedure for consultation on radiation emergency plan zones)

(1) The Commission may publish the basic regions for setting up nuclear emergency plan zones by nuclear facility pursuant to Article 20-2, paragraph 1 of the Act (“basic regions” hereinafter) by categorizing them based on the characteristics of the nuclear facilities, including their thermal output size.

(2) Nuclear facility operators shall submit the following data or information to the competent mayor/governor when intending to consult the mayor/governor responsible for the basic region in setting up a radiation emergency plan zone pursuant to Article 20-2, paragraph 2 of the Act:

1. Population distributed in the maximum radius of the relevant basic region from the point where the relevant nuclear facility is installed:
 - a. Population in each division divided by 2 kilometers from the point where the relevant nuclear facility is installed after dividing the region into 16 directions from the due north of the point where the nuclear facility is installed [The population shall be computed by adding the population of each administrative district (referring to dong and ri under Article 3, paragraph 3 of the Local Autonomy Act; the same shall apply hereinafter) included in the divisions. When one administrative district spans several divisions, the population shall be computed in proportion to the area belonging to each division.]
 - b. Population of administrative districts
2. Detailed map showing the administrative districts, road network, and topography, including mountains and rivers, within the maximum radius of the basic region from the point where the relevant nuclear facility is installed
3. Use and characteristics of the relevant nuclear facility, including thermal output size

(3) Notwithstanding paragraph 2, when the entire basic region of the relevant nuclear facility is included in its site, its operator may submit information that can prove the fact to the relevant mayor/governor instead of providing the information under paragraph 2.

(4) To obtain approval for the radiation emergency plan zone from the Commission pursuant to Article 20-2, paragraph 3 of the Act, the nuclear facility operator shall submit the information he/she submitted to the mayor/governor pursuant to paragraph 2 and information that can prove the outcome of the consultation.

Article 23 (Small-Scale Nuclear Licensee)

The “small-scale nuclear licensee as prescribed by the Presidential Decree” provided in the provisos of Article 21 (1) of the Act other than each subparagraph thereof and Article 35 (1) of the Act other than each subparagraph thereof means any of the following persons:

1. Nuclear licensee falling under Article 2 (1) 10 (c) of the Act who has obtained a permit to construct or operate a nuclear reactor for research of not more than 2 megawatts and related facilities thereof, and a nuclear reactor for educational purposes and related facilities thereof;
2. Nuclear licensee falling under Article 2 (1) 10 (e) of the Act who has obtained a permit to conduct a business of refining natural uranium and processing nuclear fuel materials, of which the enrichment of uranium 235 is less than 5 percent;
3. Nuclear licensee falling under Article 2 (1) 10 (f) of the Act who has been designated to conduct the spent nuclear fuel processing business for research or testing purposes;
4. Nuclear licensee falling under Article 2 (1) 10 (g) of the Act who has obtained a permit to use or possess nuclear fuel materials that fall under any of the following;
 - a. Nuclear fuel materials, of which the enrichment of uranium 235 is not less than 5 percent and the weight is not more than 700 grams; and
 - b. Nuclear fuel materials, of which the enrichment of uranium 235 is not more than 5 percent and the weight is not more than 1,200 grams.
5. Nuclear licensee falling under Article 2 (1) 10 (h) of the Act who has obtained a permit to construct/operate storage, processing and disposal facilities of radioactive wastes and adjunct facilities thereof, excluding those who have obtained a permit to construct/operate storage and processing facilities of spent nuclear fuels; and
6. Nuclear licensee who has obtained a production permit, etc. for radioisotopes of not more than 185 petabecquerels according to Article 53 of the Nuclear Safety Act.

Article 24 (Obligations of Nuclear Licensee)

The “matters prescribed by the Presidential Decree” provided in Article 21 (1) 7 of the Act mean emergency measures taken for those contaminated by radioactivity or exposed to radiation due to a radiation disaster, etc. within the site of nuclear facilities and the employees of a nuclear licensee contaminated by radioactivity or exposed to radiation.

Article 25 (Standards for Declaration of a Radiological Disaster)

- (1) “The case which exceeds the criteria provided for in the presidential decree” in Article 25 (1) 7. of the Act shall mean those cases where the radiation exposure quantity measurement or assessment on the boundary of the site of nuclear facilities falls under any of the following:
1. When the radiation exposure quantity is not less than 10 millisieverts per hour on the basis of whole-body dose; and
 2. When the radiation exposure quantity is not less than 50 millisieverts per hour

on the basis of thyroid dose.

(2) Those cases in which “the measured ambient exposure rate or contamination level is in excess of the standard as prescribed by the Presidential Decree” provided in Article 23 (1) 2 of the Act mean those cases where the measured ambient exposure rate or contamination level on the boundary of the site of nuclear facilities is not less than 1 roentgen per hour.

Article 26 (Notification of and Response to Radiological Disasters)

(1) The Nuclear Safety and Security Commission shall cause the metropolitan city mayor/provincial governor and city mayor/county chief/district chief of competent jurisdiction to notify each of the following to the residents in an area which has been subjected to or is feared to be subjected to a radiological impact as provided in Article 24 (2) of the Act:

1. Overview of a radiological disaster including the status of the accident at nuclear facilities, etc.; and
2. Area where urgent response actions against a radiological disaster must be implemented.

(2) The metropolitan city mayor/provincial governor and city mayor/county chief/district chief of competent jurisdiction shall take each of the following responsive measures in accordance with Article 24 (2) of the Act:

1. Dissemination to the residents of information on course of action in order to prevent damage arising from a radiological disaster; and
2. Execution of decisions under Subparagraphs 3 and 4 of Article 29 (1) of the Act.

Article 27 (Composition of National Emergency Management Committee)

The “employees of the central administrative agencies or heads of the institutions/groups concerned as prescribed by the Presidential Decree” provided in Article 25 (2) of the Act mean any of the following persons:

1. President of the Korea Institute of Nuclear Safety;
2. Head of the Korea Institute of Radiological and Medical Sciences; and
3. Heads of related institutions/groups commissioned by the head of the National Emergency Management Committee (hereinafter referred to as the “National Management Committee”) as acknowledged necessary for conducting urgent response actions as regards radiological emergency management under Article 25 (1) of the Act.

Article 28 (Operation of National Management Committee)

(1) The head of the National Management Committee (hereinafter referred to as

“head of the National Management Committee”) shall represent the National Management Committee and supervise the affairs thereof.

(2) If deemed necessary for urgent response actions as regards radiological emergency management, the head of the National Management Committee may convene a meeting of the members of the National Management Committee as provided in Article 25 (2) of the Act.

(3) Any of the following matters shall be subject to the decision of a meeting of the National Management Committee as provided in the foregoing Paragraph (2):

1. Urgent actions concerning an area where a radiological disaster has occurred;
2. Urgent assistance for public protection; and
3. Matters submitted by the head of the National Management Committee to such meeting as deemed necessary in carrying out urgent response actions as regards radiological emergency management.

Article 29 (Composition and Operation of Local Management Center, etc.)

(1) In order to assist the heads of the metropolitan city/provincial emergency management center and city/county/district emergency management center (hereinafter referred to as “local management center”) as provided in Article 27 (1) of the Act, such center shall have two (2) deputy heads, who shall be the heads of designated institutions commissioned by the deputy chiefs [meaning administrative vice mayor/administrative vice governor in the case of a metropolitan city/province (meaning the vice mayor II for administrative affairs in the case of the special metropolitan city)] and the head of a designated institutions commissioned by the head of a local emergency management center (hereinafter referred to as “head of a local management center”).

(2) A local management center shall have its own members, who shall be designated by the head of the local management center among the employees of the local government concerned and dispatched by designated institutions.

(3) The head of a local management center shall determine, in advance, the composition method thereof by type of radiological emergencies according to Article 19 hereof.

(4) The head of a local management center may set up and operate working-level units by function necessary for coping with a disaster.

(5) Matters necessary for the composition and operation of a local management center, other than those set forth herein, shall be determined by the head of a local management center in the relevant area.

Article 30 (Composition and Operation of Off-site Emergency Management Center, etc.)

(1) The “other nuclear facilities as prescribed by the Presidential Decree” as provided in Article 28 (1) of the Act mean any of the following facilities:

1. Nuclear reactors for research with the thermal output of not less than 2 megawatts and related facilities thereof, among nuclear reactors for research as provided in Article 2 (1) 2 of the Act; and
 2. Storage and processing facilities of spent nuclear fuels and adjunct facilities thereof, among storage, processing and disposal facilities of radioactive wastes as provided in Article 2 (1) 2 of the Act.
- (2) The “central administrative agencies, local governments and designated institutions as prescribed by the Presidential Decree” provided in Article 28 (2) of
1. Ministry of Education;
 2. Ministry of Science, ICT and Future Planning;
 3. Ministry of National Defense;
 4. Ministry of Government Administration and Home Affairs;
 5. Ministry of Culture, Sports and Tourism;
 6. Ministry of Trade, Industry and Energy;
 7. Ministry for Health and Welfare;
 - 7-2. Ministry of Gender Equality and Family;
 - 7-3. Ministry of Land, Transport and Maritime Affairs;
 - 7-4. Ministry of Oceans and Fisheries;
 - 7-5. Ministry of Public Safety and Security;
 - 7-6. Ministry of Food and Drug Safety;
 8. Nuclear Safety and Security Commission
 9. Metropolitan city/province that has competent jurisdiction over all or a part of the emergency planning zone;
 10. City/county/district that has competent jurisdiction over all or a part of the emergency planning zone; and
 11. Designated institutions as provided in Article 7 (3) hereof.
- (3) The head of the off-site emergency management center (hereinafter referred to as “off-site management center”) as provided in Article 28 (1) of the Act may set up and operate working-level units by function necessary for rapid command and control of a radiation disaster, etc. and swift collection and notification of disaster information.

Article 31 (Joint Public Information Center)

The head of the joint public information center as provided in the main clause of Article 28 (3) of the Act shall be designated by the head of the off-site management center among related officers dispatched under Article 28 (2) of the Act. Provided, that a person designated by the head of the city/county/district emergency management center shall serve as such, until operation of the off-site management center.

Article 32 (Off-site Emergency Management Center Advisory Committee)

The head of the off-site emergency management center advisory committee as provided

in Article 30 (1) of the Act shall serve as the head of the off-site management center, and its members shall consist of those designated by the head of the off-site management center by field among the government employees or officers dispatched to the off-site management center as provided in Article 28 (2) of the Act.

■ Section 2 Maintenance of Preparedness against Radiological Disasters

Article 33 (Radiological Emergency Training)

- (1) Radiological emergency training as provided in Article 36 (1) of the Act shall be classified into new and supplementary training.
- (2) In conducting such training as provided in the foregoing Paragraph (1), the Nuclear Safety and Security Commission shall implement such training by duty of trainees including fire containment, emergency rescue, radiological disaster control, radiological emergency medical service and public protection.
- (3) Necessary matters as regards the details, methods and so forth of training as provided in the foregoing Paragraphs (1) and (2) shall be prescribed by the Ordinance of the Nuclear Safety and Security Commission.

Article 34 (Designation of Radiological Emergency Staff, etc.)

- (1) Upon designation of the radiological emergency staff or radiological emergency medical staff, the metropolitan city mayor/provincial governor and city mayor/county chief/district chief who have competent jurisdiction over all or a part of an emergency planning zone or the heads of primary and secondary radiological emergency medical institutions as provided in Article 36 (1) of the Act shall submit the list thereof to the Nuclear Safety and Security Commission. The same shall apply when there is a change in such staff.
- (2) The metropolitan city mayor/provincial governor and city mayor/county chief/district chief, who have competent jurisdiction over all or a part of an emergency planning zone, shall preferentially designate the employees thereof, who have the necessary expertise for radiological emergency management activities, as radiological emergency staff, as provided in Article 36 (3) of the Act.

Article 35 (Radiological Emergency Exercise)

- (1) The Nuclear Safety and Security Commission shall formulate a radiological emergency exercise plan necessary for the implementation of a radiological emergency exercise as provided in Article 37 (1) of the Act.
- (2) Upon formulation of a radiological emergency exercise plan as provided in the foregoing Paragraph (1), the Nuclear Safety and Security Commission shall notify or instruct the heads of the central administrative agencies concerned, metropolitan

city mayor/provincial governor and city mayor/county chief/district chief who have competent jurisdiction over all or a part of an emergency planning zone, heads of designated institutions and nuclear licensees, who are required to be involved in a radiological emergency exercise, of such plan.

(3) The mayor/governor or heads of si, gun, or gu who are required to perform a radioactivity protection drill pursuant to Article 37 (2) of the Act shall conduct the drill based on the following guidelines (in such case, the heads of si, gun, or gu shall submit 45 days in advance their plans for the radioactivity protection drill to the mayor/governor, who in turn shall submit a comprehensive city/provincial radioactivity protection plan to the Commission by compiling the plans one month in advance.

1. Radioactivity protection drill participated in by the designated agencies located in the relevant district and the nuclear facility operator: At least biennially
2. Intensive drills on specific areas among matters related to measures for protecting residents, including traffic control, dissemination of information to residents, indoor sheltering, evacuation, distribution of protective drugs, and operation of shelters: At least annually

(4) The Commission may partly adjust the radioactivity protection drill plans of metropolitan cities/provinces or cities, counties, or districts under paragraph (3), including the drill schedule, in consultation with mayors/governors as required to ensure efficient drill performance.

(5) The mayors, governors and heads of cities, counties, and districts may request the designated agencies or nuclear licensee located within their jurisdiction to participate in or perform drills and to undergo the relevant training under the subparagraphs of paragraph 3. Those who are thus requested shall comply with the request unless they have any specific justification for not doing so.

Article 36 (Establishment of National Radiological Emergency Medical System, etc.)

(1) The Nuclear Safety and Security Commission may request the heads of the central administrative agencies concerned to provide data on rescue/relief or public health/medical service, as necessary for the establishment of the national radiological emergency medical system as provided in Article 39 (1) of the Act.

(2) The Nuclear Safety and Security Commission shall formulate guidelines regarding operation of the national radiological emergency medical center and primary and secondary radiological emergency medical institutions as provided in Article 39 (2) of the Act and notify such guidelines to the heads of the national radiological emergency medical center as well as primary and secondary radiological emergency medical institutions.

(3) Functions of the national radiological emergency medical center and primary and secondary radiological emergency medical institutions as provided in Article 39 (3) of the Act and the standards for designation of the primary and secondary

radiological emergency medical institutions shall be specified in the attached Table 4.
(4) Assistance that can be provided to the national radiological emergency medical center and primary and secondary radiological emergency medical institutions according to Article 39 (3) of the Act shall be as follows:

1. Training and exercise expenses for radiological emergency medical staff;
2. Medical equipment·facilities for radiological emergency medical service and operation/maintenance expenses thereof; and
3. Expenses for medical services in the event of a radiological emergency.

■ Section 3 Posterior Measures, etc.

Article 37 (Implementation of Post-Radiological Disaster Measures, etc.)

(1) Pursuant to Article 42 (1) of the Act, a city mayor/county chief/district chief, head of a designated institution, nuclear licensee and the head of an institution in charge of coping with a radiological disaster (excluding central administrative agencies; hereinafter referred to as “disaster control institution in charge” in this Article) shall respectively formulate posterior measures and submit such to the metropolitan city mayor/provincial governor.

(2) The metropolitan city mayor/provincial governor shall formulate general post-radiological disaster measures (hereinafter referred to as “general posterior measures” in this Article) by compiling the posterior measures submitted according to the foregoing Paragraph (1) based on consultation with the Nuclear Safety and Security Commission, and notify such measures to the city mayor/county chief/district chief, head of the designated institution, nuclear licensee and the head of the disaster control institution in charge.

(3) The metropolitan city mayor/provincial governor, city mayor/county chief/district chief, head of the designated institution, nuclear licensee and the head of the disaster control institution in charge shall respectively implement general posterior measures notified to them according to the foregoing Paragraph (2).

Article 38 (Composition and Operation of the Investigation Committee)

(1) The investigation committee (hereinafter referred to as the “investigation committee”) as provided in Article 43 (1) of the Act shall consist of not less than six (6) members and not more than nine (9) members including one (1) chairman.

(2) The chairman of the investigation committee shall be designated by the Chairperson of Nuclear Safety and Security Commission among the employees of the Nuclear Safety and Security Commission, and each of the following shall serve as members thereof:

1. One (1) person designated by the Chairperson of Nuclear Safety and Security Commission among the members of the Nuclear Safety and Security Commission;
2. One (1) employee of the relevant local government nominated by the head

thereof;

3. One (1) employee of the relevant nuclear licensee nominated thereby; and
 4. Persons commissioned by the Chairperson of Nuclear Safety and Security Commission among those with knowledge and experience regarding a radiological disaster.
- (3) The investigation committee shall be convened when deemed necessary by the chairman thereof.
- (4) Allowance and travel expenses may be paid to the members of the investigation committee present in a meeting thereof within the scope of the budget thereof. Provided, that said provision shall not apply in those cases where a member thereof, who is a government employee, attends such meeting in direct relation to his duties.

Chapter IV Supplementary Provisions

Article 39 (Reports and Inspections)

“Those prescribed by the Presidential Decree” provided in Article 44 (1) of the Act shall mean the president of the Korea Atomic Energy Research Institute as provided in the Act on Establishment, Operation and Promotion of Government-sponsored Research Institutes in the Field of Science and Technology.

Article 40 (Entrustment of Duties)

(1) The Commission shall entrust to the Korea Institute of Nuclear Non-Proliferation and Control to perform each of the following duties in accordance with Article 45 (1) of the Act:

1. Assessment of threats against nuclear facilities, etc. as provided in Article 4 (1) of the Act;
2. Review related with approval as provided in Article 9 (1) of the Act; and
3. Management of the education under Article 9-2 (1) of the Act
4. Support of drill assessment pursuant to Article 9-3 paragraph 3 of the Act.
5. Inspection under Article 12 (1) of the Act

(2) The Commission shall entrust to the Korea Institute of Nuclear Safety to perform each of the following duties as provided in accordance with Article 45 (1) of the Act:

1. Review related with approval as provided in Article 20 (1) (matters related to radiological emergency medical treatment shall be excluded) and Article 37 (3) of the Act;
2. Management of training as provided in Article 36 (1) of the Act(matters related to radiological emergency medical treatment shall be excluded);
3. Support of drill assessment pursuant to Article 37 paragraph 4 of the Act (excluding matters concerning the emergency treatment of radiation victims);

4. Inspection as provided in Article 38 (1) of the Act(matters related to radiological emergency medical treatment shall be excluded).
- (3) The Commission shall entrust the Korea Institute of Radiological & Medical Sciences with the following services pursuant to Article 45 (1) of the Act:
 1. Review concerning approval under Article 20 (1) of the Act (limited to those related to emergency radiation treatment)
 2. Assistance in the evaluation of drills under Article 37 (4) (limited to those emergency radiation treatment)
 3. Inspection under Article 38 (1) of the Act (limited to those emergency radiation treatment)

Article 40-2 (Standards for calculation of cost)

- (1) Attached Table 4-2 shall provide the standards for calculation of the cost to be collected pursuant to paragraph 2 of the same Article (“cost” hereunder in this Article and Article 40-3) from those who are reviewed, inspected, educated or assessed pursuant to Article 45 (1) of the Act (“nuclear reactor facility operators etc.” hereunder under this Article and Article 40-3).
- (2) The Commission shall publicly announce the amount of expenses for the relevant year calculated pursuant to paragraph 1 and the details of calculation by no later than January 31 of the following year.
- (3) The Commission shall consult with the Minister of Trade, Industry and Energy prior to revising the standards for calculation of the costs provided under paragraph 1.

Article 40-3 (Methods and time of payment of expenses)

- (1) To collect the expenses, the Commission shall publicly notify nuclear energy-related business operators of the amount, calculation details, payment date and place to collect the expenses pursuant to Article 45 (2) of the Act.
- (2) The nuclear energy-related business operators shall pay the expenses by the specified payment deadline by any of the following methods:
 1. Payment in 12 equal installments: By the end of each month of the following year;
 2. Payment in 4 equal installments: By January 31, April 30, July 31, and October 31 of the following year.
- (3) The expenses may be paid in cash or by credit card, debit card, etc.
- (4) Where any discrepancy occurs in the amount of expenses paid by a nuclear energy-related business operator due to a change, revocation etc. of the relevant duties, the Commission shall calculate the expenses as determined and publicly announced by the Commission to collect or refund the difference as the case may be.

Article 41 (Application of Subsidies)

According to Article 46 (2) of the Act, the metropolitan city mayors/provincial governors and city mayors/county chiefs/district chiefs, who have competent jurisdiction over the area where a nuclear power plant, disposal facilities, etc. are located, may apply the subsidy under the basic assistance program for the development of adjoining areas provided in accordance with Article 27 (1) of the Enforcement Decree of the Act on Assistance to Electric Power Plants-Neighboring Areas to the purchase/management of the facilities, equipment, etc. necessary for a radiological emergency training or exercise.

Article 42 (Criteria for imposition of fines for negligence)

Fines for negligence under Article 52 (1) of the Act shall be imposed as per Attached Table 5.

ADDENDA <No. 18341, Mar. 29, 2004>

Articles 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Articles 2 (Transitional Measures concerning Application for Approval of Physical Protection Facilities, etc.)

A nuclear licensee, who is using nuclear facilities, etc. at the time when this Decree enters into force, shall submit to the Minister of Education, Science and Technology an application for the approval of physical protection facilities/equipment, operation system thereof and protection emergency plan as provided in Subparagraphs 1 and 3 of Article 9 (1) of the Act within three (3) months from enforcement of this Decree.

Articles 3 (Transitional Measures concerning Application for Approval of a Radiological Emergency Plan)

A nuclear licensee, who is using nuclear facilities, etc. at the time when this Decree enters into force (excluding such nuclear licensee that falls under Article 2 (1) 10 (b) of the Act), shall submit to the Minister of Education, Science and Technology an application for approval of a radiological emergency plan as provided in Article 22 (1) hereof within three (3) months from enforcement of this Decree.

Articles 4 (Amendment of Other Laws)

The Enforcement Decree of the Atomic Energy Act shall be amended as follows:
The title of Article 26-2 thereof, “(Measurement Control and Protection Regulations)” shall be changed to “(Measurement Control Regulations)”, and “measurement control and protection regulations” in the former part of the same Article to “measurement control regulations.”

The title of Article 26-3 thereof, “(Inspection of Measurement Control and Protection of Specific Nuclear Materials)” shall be changed to “(Inspection of Measurement Control of Specific Nuclear Materials)”, and Paragraph (1) of the same Article be changed as follows:

(1) Any installer of a nuclear power reactor shall undergo an inspection of measurement control concerning facilities possessing specific nuclear materials under Article 16 (1) of the Act:

Article 26-3 (3) thereof shall be deleted, and “inspection of measurement control and protection” in Paragraphs (4) and (5) of the same Article be respectively changed to “inspection of measurement control”, and “measurement control and protection

regulations” in Paragraph (6) of the same Article be changed to “measurement control regulations.”

“Contingency plan” in Subparagraph 10 of Article 42-3 thereof shall be changed to “radiological emergency plan as provided in Article 20 of the Act on Physical Protection and Radiological Emergency.”

“Measurement control and protection regulations” in Subparagraphs 13 (a) through 13 (f) of the attached Table 10 shall be changed to “measurement control regulations”, and “measurement control and protection” in Subparagraphs 15 (a) through 15 (f) of the same Table be changed to “measurement control”, respectively.

ADDENDUM <No. 18678, Jan. 15, 2005>

This Decree shall enter into force on the date of its promulgation.

ADDENDUM <No. 19124, Nov. 11, 2005>

This Decree shall enter into force on the date of its promulgation.

ADDENDA <No. 19513, Jun. 12, 2006>

(Personnel Management Regulations of the Senior Executive Service)

Article 1 (Enforcement Date)

This Decree shall enter into force on July 1, 2006.

Article 2 and Article 3 Omitted.

Article 4 (Amendments to Other Acts)

① through <159>Omitted.

<160>The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Grade 2 or Grade 3 public officials” in Article 11 (2) 1 shall be amended as “Grade 3 public officials or general-level public officials belonging to the Senior Executive Service.”

<161>through <241>Omitted.

ADDENDUM <No. 19583, Jun. 30, 2006>

This Decree shall enter into force on July 1, 2006.

ADDENDA <No. 19929, Mar. 16, 2007>

(Enforcement Decree of the Act on the Establishment, Operation and Fostering of Government-Funded Science and Technology Research Institutes, etc.)

Article 1 (Enforcement Date)

This Decree shall enter into force on March 27, 2007.

Article 2 Omitted.

Article 3 (Amendments to Other Acts)

① through ⑦ Omitted.

⑧ The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

Article 7 (3) 10 shall be as follows:

10. Korea Institute of Radiological and Medical Sciences prescribed in Article 13-2 of the Radiation and Radioisotope Use Promotion Act (hereinafter referred to as “Korea Institute of Radiological and Medical Sciences”)

Article 27 subparagraph 2 shall be as follows:

2. Head of the Korea Institute of Radiological and Medical Sciences “Korea Atomic Energy Research Institute prescribed in the Korea Atomic Energy Research Institute Act (hereinafter referred to as “Korea Atomic Energy Research Institute”) in Article 39 shall be amended as “Korea Atomic Energy Research Institute prescribed in the Act on the Establishment, Operation and Fostering of Government-Funded Science and Technology Research Institutes, etc.”

⑨ through ⑪ Omitted.

Article 4 Omitted.

ADDENDA <No. 20740, Feb. 29, 2008>

(Organization of the Ministry of Education, Science and Technology and Its Affiliated Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 through Article 6 Omitted.

Article 7 (Amendments to Other Acts)

① through <95> Omitted.

<96> The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Minister of Science and Technology” in Article 5 (1) other than the subparagraphs thereof, Article 5 (3), the preceding and following paragraphs of Article 5 (1) other than the subparagraphs thereof, Article 7 (2), Article 7 (3) 11 and 13, Article 7 (4) 4, Article 10 (3), Article 17 (1) through (3), the parts of Article 18 (1) other than the subparagraphs thereof, Article 18 (2), (4) and (5), Article 20 (1), (3) and (4), Article 21, the parts of Article 22 (1) other than the subparagraphs thereof, Article 22 (2), the parts of Article 26 (1) other than the subparagraphs thereof, Article 33 (2), the preceding paragraph of Article 34 (1), Article 35 (1) and (2), the following paragraph of Article 35 (3), Article 36 (1) and (2), Article 37 (2), the parts of Article 38 (2) other than the subparagraphs thereof, Article 38 (2) 1 and 4, the parts of Article 40 (1) and (2) other than the subparagraphs thereof, and Article 42 (1) shall be amended as “Minister of Education, Science and Technology.”

“Vice Minister of Science and Technology” in Article 11 (2) shall be amended as “Vice Minister of Education, Science and Technology.”

“Ministry of Science and Technology” in Article 10 (3) and Article 38 (2) other than the subparagraphs thereof shall be amended as “Ministry of Education, Science and Technology.”

“Ordinance of the Ministry of Science and Technology” in Article 33 (3) and Article 42 (4) shall be amended as “Ordinance of the Ministry of Education, Science and Technology.”

Article 30 (2) 1 through 7 shall be amended as follows and Article 30 (2) 7-2 shall be Newly inserted as follows:

1. Ministry of Education, Science and Technology;
2. Ministry of National Defense;
3. Ministry of the Interior and Safety;
4. Ministry of Culture, Sports and Tourism;
5. Ministry of Knowledge Economy;
6. Ministry for Health, Welfare and Family Affairs;
7. Ministry of Gender Equality;

7-2. Ministry of Land, Transport and Maritime Affairs.

“Minister of Science and Technology” in the Note section of attached Table 2, subparagraph 1 of the White Emergency section for nuclear energy business operators in attached Table 3 subparagraph 2 Response Procedures by Radiation Emergency, and subparagraph 2 in the Secondary Radiation Emergency Medical Institutions and subparagraph 2 of Primary Radiation Emergency Medical Institutions in attached Table 4 subparagraph 1 National Radiation Medical Centers shall be amended as “Minister of Education,

Science and Technology.”
<97> through <102> Omitted.

ADDENDA <No. 22075, Mar. 15, 2010>
(Organization of the Ministry of Health and Welfare and Its Affiliated
Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on March 19, 2010. <Proviso Omitted.>

Article 2 (Amendments to Other Acts)

① through <112> Omitted.
<113> The Enforcement Decree of the Act on Physical Protection and
Radiological Emergency shall be partially amended as follows:
Article 30 (2) 6 and 7 shall be as follows:
6. Ministry of Health and Welfare;
7. Ministry of Gender Equality and Family.
<114> through <187> Omitted.

ADDENDA <No. 22647, Jan. 28, 2011>
(Organization of National Emergency Management Agency and Its Affiliated
Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 (Amendments to Other Acts)

① through ③ Omitted.
④ The Enforcement Decree of the Act on Physical Protection and
Radiological Emergency shall be partially amended as follows:
Article 7 (3) 2 shall be as follows:
2. Central 119 Rescue Team;
⑤ and ⑥ Omitted.

ADDENDA <No. 23237, Oct. 25, 2011>
(Organization of the Nuclear Safety and Security Commission)

Article 1 (Enforcement Date)

This Decree shall enter into force on October 26, 2011.

Article 2 Omitted.

Article 3 (Amendments to Other Acts)

① and ② Omitted.

③ The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Minister of Education, Science and Technology” in Article 5 (1) other than the subparagraphs thereof shall be amended as “Nuclear Safety and Security Commission prescribed in Article 3 of the Act on the Establishment and Operation of the Nuclear Safety and Security Commission (hereinafter referred to as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in the preceding paragraph of Article 5 (3) as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in the preceding and following paragraphs of Article 7 (1) other than the subparagraphs thereof and Article 7 (2) shall be amended as “Nuclear Safety and Security Commission,” “Minister of Education, Science and Technology” in Article 7 (3) 11 as “Nuclear Safety and Security Commission,” “Minister of Education, Science and Technology” in Article 7 (3) 13 as “Nuclear Safety and Security Commission,” “Minister of Education, Science and Technology” in Article 7 (4) 4 as “Nuclear Safety and Security Commission.”

“Ministry of Education, Science and Technology” and “Minister of Education, Science and Technology” in Article 10 (3) shall be amended as “Nuclear Safety and Security Commission” and “Chairperson of the Nuclear Safety and Security Commission,” respectively.

“Vice Minister of Education, Science and Technology” in Article 11 (2) other than the subparagraphs thereof shall be amended as “Vice Chairperson of the Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 7 (1) and (2) shall be amended as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in Article 7 (3) as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 18 (1) other than the subparagraphs thereof shall be amended as “Nuclear Safety and Security Commission,” “Minister of Education, Science and Technology” in Article 18 (2) and (4) as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in Article 18 (5) as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 20 (1) and (3) shall be amended as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in Article 20 (4) as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 21 shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 22 (1) other than the subparagraphs thereof and Article 22 (2) shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 26 (1) other than the subparagraphs thereof shall be amended as “Nuclear Safety and Security Commission.”

subparagraph 7-3 shall be Newly inserted under Article 30 (2) as follows:

7-3. Nuclear Safety and Security Commission

“Minister of Education, Science and Technology” in Article 33 (2) shall be amended as “Nuclear Safety and Security Commission” and “Ordinance of the Ministry of Education, Science and Technology” in Article 33 (3) as “Rules of the Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 34 (1) shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 35 (1) and (2) shall be amended as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in the paragraph following Article 35 (3) as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 36 (1) and (2) shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 37 (2) shall be amended as “Nuclear Safety and Security Commission.”

“Ministry of Education, Science and Technology” and “Minister of Education, Science and Technology” in Article 38 (2) other than the subparagraphs thereof shall be amended as “Nuclear Safety and Security Commission,” and “Chairperson Nuclear Safety and Security Commission,” respectively, “Nuclear Safety and Security Commission according to the provisions of Article 5 of the Atomic Energy Act” and “Minister of Education, Science and Technology” in Article 38 (2) 1 shall be amended as “Nuclear Safety and Security Commission” and “Chairperson Nuclear Safety and Security Commission,” respectively, and “Minister of Education, Science and Technology” in Article 38 (2) 4 shall be amended as “Chairperson Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 40 (1) and (2) other than the subparagraphs thereof shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in Article 42 (1) shall be amended as “Nuclear Safety and Security Commission” and “Ordinance of Ministry of Education, Science and Technology” in Article 42 (4) as “Rules of the Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in attached Table 2 Note shall be amended as “Nuclear Safety and Security Commission.”

“Minister of Education, Science and Technology” in subparagraph 1 of the White Emergency section of attached Table 3 subparagraph 2 shall be amended as “Nuclear Safety and Security Commission” and the Minister of Science and Technology section in attached Table 3 subparagraph 2 shall be amended as follows:

Nuclear Safety and Security Commission
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“Minister of Education, Science and Technology” in subparagraph 2 of the Functions section in attached Table 4 subparagraph 1 Secondary Radiation Emergency Medical Institutions shall be amended as “Nuclear Safety and Security Commission” and “Minister of Education, Science and Technology” in subparagraph 2 of the Functions section in attached Table 4 subparagraph 1 Primary Radiation Emergency Medical Institutions shall be amended as “Nuclear Safety and Security Commission.”

④ Omitted.

ADDENDA <No. 23248, Oct. 25, 2011>
(Enforcement Decree of the Nuclear Safety Act)

Article 1 (Enforcement Date)

This Decree shall enter into force on October 26, 2011.

Article 2 Omitted.

Article 3 (Amendments to Other Acts)

① through ⑭ Omitted.

⑮ The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Atomic Energy Act and the Enforcement Decree of the Act” in Article 2 (2) shall be amended as “Nuclear Safety Act and Enforcement Decree of the Act.”
“1 of subparagraphs of Article 34 (1) of the Atomic Energy Act” in Article 4 (3) shall be amended as “any one of the subparagraphs of Article 31 (1) of the Nuclear Safety Act.”

“By the provisions of Article 65 of the Atomic Energy Act” in Article 6 shall be amended as “in accordance with Article 53 of the Nuclear Safety Act.”

Article 9 subparagraph 2 shall be as follows:

2. The president of the Korea Institute of Nuclear Nonproliferation and Control in accordance with Article 6 of the Nuclear Safety Act

“By the provisions of Article 2 subparagraph 18 of the Atomic Energy Act” in Article 13 subparagraph 3 shall be amended as “in accordance with Article 2 subparagraph 18 of the Nuclear Safety Act.”

“By the provisions of Article 65 of the Atomic Energy Act” in Article 23 subparagraph 6 shall be amended as “in accordance with Article 53 of the Nuclear Safety Act.”

“Atomic Energy Act” in Article 40 (1) other than the subparagraphs thereof shall be amended as “Article 6 of the Nuclear Safety Act.”

⑩ through ⑫ Omitted.

Article 4 Omitted.

ADDENDA <No. 24431, Mar. 23, 2013>

(Organization of the Nuclear Safety and Security Commission)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 Omitted.

Article 3 (Amendments to Other Acts)

① Omitted.

② The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

The title “Enforcement Decree of the Act on Physical Protection and Radiological Emergency” shall be amended as “Enforcement Decree of the Act on Physical Protection and Radiological Emergency.”

“Presidential Decree shall” in Article 9 other than the subparagraphs thereof shall be amended as “by Presidential Decree” and “vice minister-grade public officials” in Article 9 subparagraph 1 shall be amended as “Grade 3 public officials or public officials with equivalent positions thereto.”

“Vice Chairperson of the Nuclear Safety and Security Commission” in Article 11 (2) other than the subparagraphs thereof shall be amended as “director general-grade public official in charge of tasks related to physical protection among the public officials affiliated with the Nuclear Safety and Security

Commission” and “Grade 3 public officials or general public officials belonging to the Senior Executive Service (incl. officers with equivalent positions thereto in the case of the Ministry of National Defense)” in Article 11 (2) 2 shall be amended as “directors or public officials with equivalent positions thereto [incl. field officers with equivalent positions thereto in the case of Ministry of National Defense].”

“Presidential Decree shall” in Article 30 (1) and (2) other than the subparagraphs thereof shall be amended as “by Presidential Decree,” Article 30 (2) 1 through 7, 7-2 and 7-3 shall be amended as follows, and 7-4 and 7-5 shall be Newly inserted under the paragraph as follows:

1. Ministry of Science, ICT and Future Planning;
2. Ministry of Education;
3. Ministry of National Defense;
4. Ministry of Security and Public Administration;
5. Ministry of Culture, Sports and Tourism;
6. Ministry of Trade, Industry and Energy;
7. Ministry of Health and Welfare;
- 7-2. Ministry of Gender Equality and Family;
- 7-3. Ministry of Land, Infrastructure and Transport;
- 7-4. Ministry of Oceans and Fisheries;
- 7-5. Nuclear Safety and Security Commission.

“Rules of the Nuclear Safety and Security Commission” in Article 33 (3) and Article 42 (4) shall be amended as “Ordinance of the Prime Minister.”

③ Omitted.

ADDENDA <No. 24760, Sep. 17, 2013>

(Organization of National Emergency Management Agency and Its Affiliated Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 (Amendments to Other Acts)

① through ③ Omitted.

④ The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

Article 7 (3) 2 shall be as follows:

2. Central 119 Rescue Headquarters;

⑤ Omitted.

ADDENDA <No. 25028, Dec. 24, 2013>

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 (Transitional Measures Concerning the National Radiological Emergency Plan)

The 2014 National Radiological Emergency Plan established prior to the enforcement of this Decree shall be regarded as the 2014 National Radiological Emergency Plan that is in accordance with the amended provisions of Article 20-2.

Article 3 (Transitional Measures Concerning the Establishment of the National Radiological Emergency Plan)

Notwithstanding the amended provisions of Article 21, the previous provisions shall be observed in relation to the establishment of the National Radiological Emergency Plan. In this case, it shall be established in accordance with the National Radiological Emergency Plan, which is regarded as the 2014 National Radiological Emergency Execution Plan according to Article 2 of the Addenda.

Article 4 (Transitional Measures Concerning Changes to the Protection Conditions)

A nuclear business operator who fails to meet the protection conditions according to the amended provisions of attached Table 2 at the time when this Decree enters into force shall meet the protection conditions according to the amended provisions of attached Table within a year of the enforcement date of this Decree and receive approval of the changes from the Nuclear Safety and Security Commission in relation to the regulations, etc. on physical protection: Provided, That in relation to the protection conditions according to the amended provisions of attached Table 2 subparagraph 1 Item C (7) and attached Table 2 subparagraph 3 Item M, the nuclear business operator shall meet the conditions within 2 years of the enforcement date of this Decree and receive approval of the changes from the Nuclear Safety and Security Commission in relation to the regulations, etc. on physical protection.

ADDENDA <No. 25746, Nov. 19, 2014>

Article 1 (Enforcement Date)

This Decree shall enter into force on November 22, 2014.

Article 2 (Application Concerning Radiological Emergency Training)

The amended provisions of Article 35 shall enter into force on January 1, 2015: Provided, That the initial radiological emergency training pursuant to this Article shall be implemented by December 31, 2016.

ADDENDA <No. 25751, Nov. 19, 2014>

(Organization of the Ministry of Government Administration and Home Affairs and Its Affiliated Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation: Provided, That among the Presidential Decrees amended in accordance with Article 5 of the Addenda, the amendments to the Presidential Decrees, which were promulgated before this Act enters into force, but the enforcement dates of which have yet to arrive, shall enter into force on the enforcement dates of the respective Presidential Decrees.

Article 2 through Article 4 Omitted.

Article 5 (Amendments to Other Acts)

① through <400> Omitted.

<401> The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Coast Guard” in Article 7 (4) 5 and Article 14 (1) 6 shall be amended as “Coast Guard Station.”

“Coast Guard Substation” in Article 14 (2) 6 shall be amended as “Coast Guard Safety Center.”

Article 30 (2) 1, 2, 4, 7-5 and 8 shall be as follows:

1. Ministry of Education
2. Ministry of Science, ICT and Future Planning
4. Ministry of Government Administration and Home Affairs
- 7-5. Ministry of Public Safety and Security
8. Nuclear Safety and Security Commission

<402> through <418> Omitted.

ADDENDA <No. 26140, Mar. 11, 2015>
(Security Work Regulations)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 Omitted.

Article 3 (Amendments to Other Acts)

① through ④ Omitted.

⑤ The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:
“Full inspection” in Article 18 (2) shall be amended as “security incident investigation.”

ADDENDA <No. 26435, Jul. 24, 2015>

(Partially amended decrees incl. the Enforcement Decree of the Framework Act on Civil Defense for improving the commissions affiliated with the administrative agencies)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation.

Article 2 Omitted.

ADDENDUM <No. 26761, Dec. 22, 2015>

This Decree shall enter into force on January 1, 2016.

ADDENDUM <No. 27208, May. 31, 2016>

This Decree shall enter into force on June 2, 2016.

ADDENDA <No. 28211, Jul. 26, 2017>

(Organization of the Ministry of the Interior and Safety and Its Affiliated Institutions)

Article 1 (Enforcement Date)

This Decree shall enter into force on the date of its promulgation: Provided, That among the Presidential Decrees amended in accordance with Article 8 of the Addenda, the amendments to the Presidential Decrees, which were promulgated before this Act enters into force, but the enforcement dates of which have yet to arrive, shall enter into force on the enforcement dates of the respective Presidential Decrees.

Article 2 through Article 7 Omitted.

Article 8 (Amendments to Other Acts)

① through <376> Omitted.

<377> The Enforcement Decree of the Act on Physical Protection and Radiological Emergency shall be partially amended as follows:

“Coast Guard Station” in Article 7 (4) 5 shall be amended as “Coast Guard.”
“Head of Coast Guard Station” in Article 14 (1) 6 shall be amended as the “head of the Coast Guard” and “head of the Coast Guard Center” in Article 14 (2) 6 shall be amended as the “head of the Coast Guard Substation.”

The subparagraphs of Article 30 (2) shall be as follows:

1. Ministry of Education;
2. Ministry of Science and ICT;
3. Ministry of National Defense;
4. Ministry of the Interior and Safety;
5. Ministry of Culture, Sports and Tourism;
6. Ministry of Trade, Industry and Energy;
7. Ministry of Health and Welfare;
8. Ministry of Gender Equality and Family;
9. Ministry of Land, Infrastructure and Transport;
10. Ministry of Oceans and Fisheries;
11. Ministry of Food and Drug Safety;
12. Korea National Fire Agency;
13. Nuclear Safety and Security Commission;
14. Metropolitan cities and provinces with the target site of the radiological emergency plan, in part or in whole, under its jurisdiction;
15. Si/Gun/Gu with the target site of the radiological emergency plan area, in part or in whole, under its jurisdiction;
16. Designated institutions.

<378> through <388> Omitted.

[Table 1]

Classification of Nuclear Materials by Grade
[Related with Article 15]

Nuclear materials		Grade		
Materials	Type	Grade I	Grade II	Grade III
1. Plutonium	Non-irradiated	2 kilograms or more	500 grams ~ less than 2 kilograms	15 grams ~ under than 500 grams
2. Uranium 235	Non-irradiated uranium of which the enrichment of uranium 235 is not less than 20 percent	5 kilograms ~	1 kilogram ~ less than 5 kilograms	15 grams ~ under than 1 kilogram
	Non-irradiated uranium of which the enrichment of uranium 235 is 10 percent to less than 20 percent		10 kilograms ~	1 kilogram ~ under than 10 kilograms
	Non-irradiated uranium of which the enrichment of uranium 235 is in excess of the level of natural uranium to less than 10 percent			10 kilograms ~
3. Uranium 233	Non-irradiated	2 kilograms ~	500 grams ~ less than 2 kilograms	15 grams ~ under than 500 grams
4. Irradiated fuel			Depleted uranium, natural uranium, thorium or low-enriched fuel thorium of which fissile material is less than 10 percent	

Remarks

1. 1. "Plutonium" in the table above means plutonium excluding plutonium of which the enrichment of plutonium 238 exceeds 80 percent.
2. 2. "Non-irradiated" material in this table means material not irradiated in a reactor or material irradiated in a reactor of which radiation level is less than 1 Gy per hour at one-meter distance with no shielding.
3. 3. The grade of irradiated fuels originally classified as grade II or III prior to irradiation due to containment of fissile materials may be lowered to the next lower grade in cases where the radiation level thereof exceeds 1 Gy per hour at one-meter distance with no shielding.

[Table 2]

Protection Requirements Concerning Nuclear Facilities, etc.

[Related with Article 16]

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|--|
| <p>1. Protection requirements regarding illicit trafficking of nuclear materials being used or stored</p> <p>(a) Nuclear materials of grade III</p> <p>(1) Control the access to the zone for the use and the storage of nuclear materials of grade III. ("protection area of grade III")</p> <p>(2) Means and procedures for the access control of the protection area will be protected from any manipulation or forgery.</p> <p>(3) Establishes detection/guard systems and response measures against illegal infiltration into a relevant protection area.</p> <p>(4) Formulates emergency protection plans against illicit trafficking of nuclear materials and conducts emergency protection training for those engaged in physical protection of relevant facilities ("protection workers").</p> <p>(5) Conducts physical protection education for protection workers on an annual basis and implements training concerning implementation of the details of such education.</p> <p>(6) Implements regular assessment concerning physical protection regulations, etc. as provided in Article 17 (1) and reflect the results thereof.</p> <p>(7) By providing a succession of nuclear materials and operations reporting procedures will be strictly a management of nuclear materials.</p> <p>(8) Physical protection measures, such as locking and sealing, shall be taken as required against design-based risks to nuclear facilities etc. when radioactive materials are moved within a protection zone.</p> <p>(9) A security system shall be developed for the computers and information system of nuclear facilities by applying the protection requirements provided under Item 6.</p> <p>(b) Nuclear materials of grade II</p> <p>(1) Satisfy the protection requirements through 1 (a) (2) ~ 1 (a) (9).</p> <p>(2) Restrict the use and storage of nuclear material of grade II within its protection area("protection area of grade II").</p> <p>(3) Protection area of grade II will be located in the protection area of grade III.</p> <p>(4) Ensure that the protection area can detect the illegal invasion.</p> <p>(5) Minimize the entrance of the corresponding protection area.</p> <p>(6) Minimizes access of vehicles to a relevant protection area and restricts parking to a designated area.</p> <p>(7) Access to and entry by those allowed to access the relevant protection zones shall be minimized. Those who are not allowed to access the zones alone shall be accompanied by a member of personnel who is allowed access.</p> <p>(8) People, vehicles and articles taken in and out of the relevant protection zone shall be searched.</p> <p>(9) nsures sufficient lighting and range of vision regarding the surroundings of a relevant</p> |
|--|

protection area.

- (10) Ensures that the central control room maintains an organized monitoring and guard system as well as a communication system with external response staff including the military and police.
- (11) The central control room should be located within the protected area of grade II, minimizing the entrance of the central control room and will be strictly controlled.
- (12) Detection-related facilities and central control room will be equipped for independent power for emergency physical protection.
- (13) Be the administrative and record-keeping of keys and locks for storage and containment of nuclear material thoroughly.
- (14) Establish a protection emergency plan for illegal transfers of nuclear material and will conduct emergency plans between the external response staff, including guards, military and police on a regular basis.
- (15) Protected area will be carried out to maintain and, at all times and unannounced border patrol duty 24 hours a day.

(c) Nuclear materials of grade I

- (1) Satisfy the protection requirements through 1 (b) (1) and 1 (b) (1) ~ (15)
- (2) Restrict the use and storage of nuclear material of grade I within its protection area ("protection area of grade I").
- (3) Protection area of grade I will be located in the protection area of grade II and apply to additional physical protection measures against unauthorized removal.
- (4) Prevents access of private vehicles to the inside of a relevant protection area.
- (5) Maintains a mechanism where two persons accompany and monitor each other in accessing a relevant protection area.
- (6) Separates relevant protection area from ordinary passages.
- (7) This function will be maintained in the central control room under emergency.

2. Protection requirements regarding nuclear materials being transported

(a) Common protection requirements

- (1) Minimizes the time, frequency and period of transporting nuclear materials.
- (2) Diverse transport plans shall be developed to ensure that different times and routes are used whenever nuclear materials are transported.
- (3) Restricts employees engaged in transportation to those with established identity.
- (4) If the temporary storage or unexpected stops in transit will be the necessary measures in accordance with the requirements of protection grade.
- (5) Even if the vehicle is subject to change would be the necessary measures in accordance with category of nuclear material grade.
- (6) To minimize the sharing of information relating to the handling and for maintaining the confidentiality.
- (7) When carrying nuclear materials to keep liaison with external response staff.

(b) Nuclear materials of grade III

- (1) Ensures that the transferor gives prior notice of the transportation method and plan to the transferee.
 - (2) Ensures thorough locking and sealing concerning transportation vehicles.
 - (3) Ensures that the transferor and transferee give notice to each other of any delay in transportation.
 - (4) Ensures that a transportation vehicle is escorted by at least two vehicles carrying not more than one police officer.
 - (5) Ensures that one armed protection worker is aboard a transportation vehicle.
 - (c) Nuclear materials of grade I and II
 - (1) Satisfy the protection requirements through 2 (b).
 - (2) Ensures that nuclear materials subject to transportation are transported by a locked vehicle or freight container.
 - (3) The protection worker responsible for supervising the development of plans for the transportation of radioactive materials and their protection when transported (“transport protection manager” hereinafter) shall carry the transport manual.
 - (4) Ensures that an officer in charge of transportation protection maintains a mutual communication system among the escort vehicle, transportation vehicle and transportation control center.
 - (5) Ensures that two armed protection workers are aboard a transportation vehicle.
 - (6) Ensures that liability and responsibility for physical protection is clarified in accordance with a contract and agreement between the transferor and transferee regarding international transportation of nuclear materials.
 - (7) Conducts an emergency protection training regarding illicit trafficking of nuclear materials being transported.
 - (8) Maintains a communication system with external response staff including the military and police to brace for possible illicit trafficking of nuclear materials being transported.
 - (d) Lost, tracking and recovery of stolen nuclear material measures : Satisfy the protection requirements through 1 (d)
3. Requirements for protection from sabotage at a nuclear facilities that use or stores nuclear materials:
- (a) Equipped with detection systems, alarm and protective equipment against the illegal invasion of a protection area and the core area.
 - (b) Access and exit in the protection area and the core area is kept to a minimum.
 - (c) Minimize the entry of the corresponding protection area, and for the person who is not authorized to access a relevant protection area ensures accompaniment by authorized person.
 - (d) In order to prevent sabotage will search people, vehicles and goods that into and out of the core areas and protection area.
 - (e) Core areas will be isolated from the general corridor and apply an additional physical protection measures.
 - (f) Prevents access of private vehicles to the inside of a relevant core area.
 - (g) Maintain a continuous boundary detection and a 24-hour shift with respect to the

- protection area, and will conduct a regular and unannounced patrols.
- (h) Ensures sufficient lighting and range of vision regarding the surroundings of a relevant protection area.
 - (i) To prevent sabotage within the protection area and core area, clean the protective measures thoroughly during maintenance period.
 - (j) Be the administrative and record-keeping of keys and locks for storage and containment of nuclear material thoroughly.
 - (k) Ensures that the central control room maintains an organized monitoring and guard system as well as a communication system with external response staff including the military and police.
 - (l) Minimize access to the central control room and be strictly controlled.
 - (m) This function will be maintained in the central control room under emergency.
 - (n) Detection-related facilities and central control room will be equipped for independent power for emergency physical protection.
 - (o) A security system shall be developed for the computers and information systems of nuclear facilities by applying the protection requirements provided under Item 6.
 - (p) Annually conducts training on physical protection of guards, will conduct the training for the implementation of educational content.
 - (q) Establish a protection emergency plan for sabotage of nuclear material and will conduct emergency plans between the external response staff, including guards, military and police on a regular basis.
 - (r) Notwithstanding a. through r. the below-listed requirements shall apply when the potential radiation impact of an act of sabotage is lower than the radiation impact announced by the Commission that can hardly be accommodated:
 - 1) Access to the protection zone shall be controlled;
 - 2) The means and procedures for control of access to the protection zone shall be protected to prevent arbitrary manipulation or forgery;
 - 3) Plans shall be developed for detection, guard system and counteractions against illegal intrusions into the protection zone;
 - 4) Emergency protection plans shall be developed against sabotage in a protected zone and emergency protection drills shall be performed for the protection of workers at the relevant facility;
 - 5) Physical protection education shall be provided to workers every year and drills shall be performed on the contents thereof;
 - 6) The protection system of nuclear energy facilities etc. shall be evaluated periodically based on the regulations on physical protection, and complementary actions shall be taken for the protection system based on the outcome of the evaluation; and
 - 7) A security system shall be developed for the computers and information systems of nuclear facilities by applying the protection requirements provided under Item 6.
4. Protection requirements for the sabotage of nuclear material during transport

- (a) Common protection requirements : Satisfy the protection requirements 2 (a)
 - (b) Nuclear materials of grade III
 - (1) Satisfy the protection requirements 2 (b)
 - (2) Do a thorough search for the prevention of sabotage for the transport vehicles shall take over.
 - (c) Nuclear materials of grade I and II : Satisfy the protection requirements 2 (3) and 4 (b) (2)
5. Requirements for protection from sabotage at a nuclear facility that neither uses nor stores nuclear materials:
- a. Access to the nuclear facility shall be controlled.
 - b. The means and procedures for controlling access shall be protected from unauthorized operation or forgery.
 - c. Plans shall be established to detect, guard against, and cope with illegal intrusion into the nuclear facility.
 - d. Emergency plans shall be established for protection from sabotage at a nuclear facility, and emergency protection drills shall be conducted for the protection workers of the relevant facility.
 - e. Physical protection education shall be conducted for the protection workers each year, and drills shall be performed to ensure the performance of the contents of such education.
 - f. The physical protection provisions under Article 17, paragraph 1 shall be periodically evaluated, and the outcome shall be reflected.
 - g. A security system shall be developed for the computers and information systems of nuclear facilities by applying the protection requirements provided under Item 6
6. Protection requirements for electronic intrusions
- a. Access to the computers and information systems of nuclear facilities shall be controlled as follows:
 - 1) Information on the computers and information systems of nuclear facilities shall be provided, used and revised by the authorized persons using authorized means only.
 - 2) Hardware constituting the computers and information systems of nuclear facilities shall be installed and modified by the authorized persons using authorized means only.
 - b. The means and procedures for physical and electronic access to the computers and information systems of nuclear facilities shall be protected and controlled to prevent arbitrary manipulation or forgery.
 - c. Systems shall be developed for the prevention and detection of unauthorized physical and electronic access to the computers and information systems of nuclear facilities.
7. The Nuclear Safety and Security Commission shall determine and announce the specifics of the protection requirements provided under Items 1 to 6.

[Table 3]

**Standards Regarding Types of Radiological Emergencies and
Response Procedures by Radiological Emergency**
[Related with Article 19]

1. Standards Regarding Types of Radiological Emergencies

Classification	Standards
Alert	Accidents causing or feared to cause any damage to the seal of radioactive materials or the power supply functions aimed at maintaining safety of nuclear facilities, which constitute an emergency of which radiological impact arising from leakage of radioactive materials is expected to be limited to the buildings of the nuclear facilities.
Site area emergency	Accidents causing or feared to cause any damage to major safety functions of nuclear facilities as a result of any defect in functions for improvement from “alert” to “safe”, which constitute an emergency of which radiological impact arising from leakage of radioactive materials is expected to be limited to the site of the nuclear facilities. Head of the on-site emergency management center
Response measures provided in paragraphs 1 through 3 of the site area emergency column	<ol style="list-style-type: none"> 1. Operation of the on-site emergency management center 2. Installation and operation of a joint public information center under Article 28 (3) of the Act 3. Exercise of authority as provided in each subparagraph of Article 29 (1) of the Act <p>Metropolitan city mayor/ provincial governor and city mayor/ county chief/ district chief who have competent jurisdiction over all or a part of a radiological emergency planning zone</p>
Installation and operation of a local management center under Article 27 (1) of the Act	<ol style="list-style-type: none"> 1. Installation and operation of a local management center under Article 27 (1) of the Act 2. Implementation of relevant matters in cases where the degree and status of a radiological emergency meet the standards for declaration of a radiological disaster and thus it is declared that a radiological disaster has occurred under Article 23 (1) of the Act and where the head of the on-site emergency management center makes decisions on those set forth in Article 29 (1) 3, 29 (1) 4 and 29 (1) 7 of the Act

2. Response Procedures by Radiological Emergency

Classification	Response procedures (measures)		
	Alert	Site area emergency	General emergency
Nuclear licensee	<ol style="list-style-type: none"> 1. Report to the Nuclear Safety and Security Commission, etc. under Article 21 (1) 1 of the Act 2. Disclosure of information on radiological emergencies under Article 21 (1) 3 of the Act 3. Emergency measures to prevent the spread of a radiological accident and radiological protection measures necessary to reduce radiation exposure of emergency action staff, etc. under Article 21 (1) 4 of the Act 4. Operation of emergency response facilities under Article 35 (1) 5 of the Act 5. Emergency measures for those contaminated by radioactivity or 	<ol style="list-style-type: none"> 1. Response measures provided in paragraphs 1 through 4 of the alert column 2. Installation and operation of a nuclear licensee's emergency management center in accordance with the nuclear licensee's radiological emergency plan under Article 20 (1) of the Act 3. Assistance including dispatch of radiological emergency staff, provision of technical advisory services and making available radiation measuring apparatus under Article 21 (1) 5 of the Act 4. Emergency measures for those contaminated by radioactivity or exposed to radiation due to a radiological disaster within the site of nuclear facilities and the employees of a nuclear licensee contaminated by radioactivity or exposed to radiation under Article 24 of the Decree 	<p>Response measures provided in paragraphs 1 through 4 of the site area emergency column</p>

<p>The Nuclear Safety and Security Commission</p>	<p>exposed to radiation due to a radiological disaster within the buildings of nuclear facilities and the employees of a nuclear licensee contaminated by radioactivity or exposed to radiation under Article 24 of the Decree</p> <p>Notification to the agencies concerned in accordance with a national radiological emergency plan upon receipt of reports under Article 21 (1) 1 of the Act</p>	<ol style="list-style-type: none"> 1. Notification to the agencies concerned in accordance with a national radiological emergency plan upon receipt of reports under Article 21 (1) 1 of the Act 2. In cases where the degree and status of a radiological emergency meet the standards for declaration of a radiological disaster and thus it is declared that a radiological disaster has occurred under Article 23 (1) of the Act: <ol style="list-style-type: none"> (a) Notification to the agencies concerned under a national radiological emergency plan (b) Report of the overview, etc. of a radiological disaster to the President via the Prime Minister 	<p>Response measures provided in paragraphs 1 through 2 of the site area emergency column</p>
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- (c) Causing a metropolitan city mayor/provincial governor and city mayor/county chief/district chief to inform people residing in an area feared to be subject to a radiological impact of occurrence of a radiological disaster and to take necessary response measures
- (d) Installation and operation of the national management committee under Article 25 (1) of the Act
- (e) Appointment of the head of the on-site emergency management center under Article 28 (2) of the Act
- (f) Commanding the head of the on-site emergency management center under Article 28 of the Act
- (g) Commanding the heads of the radiological emergency technical advisory center and radiological emergency medical service center under Article 32 of the Act

[Table 4]

Functions of the National Radiological Emergency Medical Center and Primary/Secondary Radiological Emergency Medical Institutions and Standards for Designation as Primary/Secondary Radiological Emergency Medical Institutions

[Related with Article 36 (3)]

1. Functions of the National Radiological Emergency Medical Center and Primary/Secondary Radiological Emergency Medical Institutions

Classification	Functions
National Radiological Emergency Medical Center	<ol style="list-style-type: none"> 1. Radiological emergency medical care including emergency medical care for patients exposed to radiation 2. Education and training of radiological emergency medical staff and rescue staff 3. Assistance to primary and secondary radiological emergency medical institutions 4. Researches into radiological emergency medical care 5. Other affairs related with radiological emergency medical care which are acknowledged necessary for such medical care by the head of the emergency medical center
Secondary Radiological Emergency Medical Institutions	<ol style="list-style-type: none"> 1. Radiological emergency medical care including emergency medical care for patients exposed to radiation 2. Preservation of records on patients exposed to radiation and report to the Nuclear Safety and Security Commission via the emergency medical center 3. Transfer of patients to the emergency medical center when necessary 4. Participation in education on radiological emergency medical care
Primary Radiological Emergency Medical Institutions	<ol style="list-style-type: none"> 1. Radiological emergency medical care including emergency medical care for patients exposed to radiation 2. Preservation of records on patients exposed to radiation and report to the Nuclear Safety and Security Commission via the emergency medical center 3. Transfer of patients to the emergency medical center or secondary radiological emergency medical institutions when necessary 4. Participation in education on radiological emergency medical care

2. Standards for Designation as Primary and Secondary Radiological Emergency Medical Institutions

A. Standards for designation as primary radiological emergency medical institutions

(1) General standards

- a. Be equipped with facilities, staff and equipment to provide patients exposed to radiation with radiological emergency medical care.
- b. Secure an area where patients exposed to radiation can be treated, separate from other patients.
- c. Provide outpatient services to patients exposed to radiation

(2) Individual standards

a. Facility standards

Facility	Number of units	Standards
Area for medical care of patients exposed to radiation	1	Installs not less than 1 sickbed.
Examination room	1	Secures sufficient space for examinations by using equipment in accordance with the equipment standards.
Radiology room - General radiography room	1	
Operation room	1	Secures 1 sickbed for simple operation and treatment.
Administrative office	1	Secures necessary space in cases where affairs related with hospitalization/discharge from hospital and medical insurance are performed separately from the relevant radiological emergency medical institution.
Doctors' night duty room	1	Secures space that can accommodate not less than 2 doctors
Waiting room	1	
Parking lot		Secures space where not less than 4 vehicles including 2 ambulances can park at the same time.

Remarks

An examination room may not be installed if it is possible to use such room set up in the relevant radiological emergency medical institution.

b. Staff standards

Staff	Remarks
Not less than 1 doctor (specialist)	
Not less than 3 nurses	

c. Equipment standards

Equipment name	Quantity
<Equipment related to medical care of patients exposed to radiation>	
Personal dosimeter	3
Radiation protective wear	3
Radioactive waste bin	1
Surface contamination measurement instrument	1
<General medical equipment>	
Cardiac defibrillator	1
Artificial respirator	1
Infusion pump	1
Mobile x-ray system	1
Ultrasonic diagnosis apparatus	1
Obstetric examination table	1
ECG monitor	1
Mobile monitor	1
Attachable aspirator	1
Wall O ₂ unit	1
Blood warmer	1
Emergency blanket	1
Ordinary x-ray system	1
Ambulance; If ambulance operation is commissioned to a relevant service provider, an ambulance may not be secured.	1

B. Standards for designation as secondary radiological emergency medical institutions

(1) General standards

- a. Be equipped with facilities, staff and equipment to provide patients exposed to radiation with radiological emergency medical care.
- b. Secure an area where patients exposed to radiation can be treated, separate from other patients.
- c. Provide hospitalization services to patients exposed to radiation

(2) Individual standards

a. Facility standards

Facilities	Number of units	Standards
Area for medical care of patients exposed to radiation	1	Installs not less than 2 sickbeds.
Examination room	1	Secures sufficient space for examinations by using equipment in accordance with the equipment standards.
Radiology room - General radiography room - CT room - Film development room	1 1 1	
Operation room - Large operation room - Small operation room	1 1	Installs the operation rooms directly connected to a landing ground for rotary-wing aircraft if there exists such landing ground.
Sickbeds in the intensive care unit	10	
Sickbeds in the ward	300	
Administrative office	1	Secures necessary space in cases where affairs related with hospitalization/discharge from hospital and medical insurance of the relevant patients are performed separately from the radiological emergency medical institution concerned.
Doctors' night duty room	1	Secures space that can accommodate not less than 2 doctors.
Waiting room	1	Secures space where not less than 30 people can wait at the same time.
Parking lot		Secures space where not less than 4 vehicles including 2 ambulances can park at the same time.

Remarks

Said examination room, CT room out of the radiology room, large operation room out of the operation room, intensive care unit and ward may not be installed if it is possible to use such facilities in the relevant radiological emergency medical institution.

b. Staff standards

Staff	Remarks
<input type="radio"/> Doctors - Not less than 4 specialists of emergency medicine, nuclear medicine or radiation oncology - Not less than 2 specialists related with medical care of urgent radiological patients including specialists in internal medicine and dermatology	<input type="radio"/> Ensures that radiological emergency medical care can be provided within 30 minutes by at least one specialist related with such medical care in the event of a radiological disaster, etc.
<input type="radio"/> Nurses - Not less than 12 nurses	
<input type="radio"/> Other staff - Emergency rescuer and driver (not less than 2 persons per ambulance) - Radiation safety officer	<input type="radio"/> Adjustable according to the conditions of the relevant radiological emergency medical institution

c. Equipment standards

Equipment name	Quantity
<Equipment related to medical care of patients exposed to radiation>	
Personal dosimeter	6
Radiation protective wear	6
Radioactive waste bin	2
Surface contamination measurement instrument	2
<General medical equipment>	
Cardiac defibrillator	2
Artificial respirator	2
Infusion pump	1
Mobile x-ray system	1
Ultrasonic diagnosis apparatus (equipment enabling echocardiography)	1
Esophagus/stomach endoscope	1
Obstetric examination table	1
Multi-channel monitor	1
Ordinary monitor	1
Mobile monitor	1
Attachable aspirator	1
Blood warmer	1
Emergency blanket	1
CT system	1
Ordinary x-ray system	1
Blood component tester (CBC tester)	1
Chemical blood tester	1
Arterial blood gas analyzer	1
Urine component tester	1
Blood bank	1
Ambulance; If ambulance operation is commissioned to a relevant service provider, an ambulance may not be secured.	1

[Table 4-2]

Standards for the calculation of expenses

(in relation to Article 40-2 (1))

1. Calculation standards for expenses

Volume of work in prior year x base unit price
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2. Volume of work by duty

The value obtained by multiplying the number of persons input by the contractor into the duty by the number of days worked based on the prior year.

3. Base unit price

a. Nuclear-energy related business operators falling under Article 2 (1) 10

Subparagraphs a, b, e, f, and h: Value with the unit price of expense items based on the classification of the following Table:

Expense items	Detail contents	Unit price
1. Direct wages	Wages the contractor has paid to personnel input to perform the outsourced duties	Average daily remuneration per employee based on the current state of officers and employees managed and wages execution disclosed pursuant to Article 11 of the Act on the Management of Public Institutions
2. Direct expenses	Expenses the contractor has paid directly for the performance of outsourced duties	Amount equivalent to 84.9% of the direct wages
3. Various expenses	Expenses the contractor has paid for the performance of outsourced duties other than direct expenses	Amount equivalent to 54.73% of the direct wages

b. Nuclear-energy related business operators other than those falling under a. above:

Value determined and published by the Commission within the unit price of direct wages under Table a.

[Table 5] <Amended on 2016. 05. 31.>

Criteria for the Imposition of Fines for Negligence
(in relation to Article 42)

1. General criteria

a. In cases falling under any of the following, the authority responsible for imposing fines may reduce the amount of a fine under Item 2 Individual criteria to within one half of the fine. However, this shall not apply to violators who default on payment of the fine.

- 1) When the violator falls under any of the Items of Article 2-2 (1) of the Enforcement Decree for the Act on the Regulation of Violations of Public Order;
- 2) When the violation is deemed to be attributable to trivial negligence or error;
- 3) When it is deemed that the violator has made concerted efforts to correct or relieve the state of violation of the law; or
- 4) When it is deemed that the fine should be reduced after considering other factors, including the degree, motivation and consequences of the violation

b. In cases falling under any of the following, the authority responsible for imposing fines may increase the amount of a fine under Item 2 Individual criteria to within one half of the fine. However, the amount shall not exceed the limit of fines as provided under Article 52 (1) of the Act.

- 1) When it is deemed that a threat to safety is likely to arise as the degree and contents of the violation are serious;
- 2) When the state of violation of the law is prolonged for six months or more; or
- 3) When it is deemed necessary to increase a fine after considering other factors, including the degree, motivation and consequences of the violation

2. Individual criteria

Act of violation	Base statute articles	Amount of fine
a. When a person fails to declare or makes a false declaration in violation of Article 9 (1) proviso or Article 20 (1) proviso.	Article 52 (1) 1	5,000,000 won
b. When a person fails to record information or records false information in violation of Article 14.	Article 52 (1) 2	8,000,000 won
c. When a person develops or revises emergency protection plans without notifying the relevant metropolitan city mayor, provincial governor, mayor, head of country or district or designated agency in violation of Article 20 (2).	Article 52 (1) 3	6,000,000 won
d. When a person fails to secure the dedicated organization, personnel, facilities or equipment for radiation protection in violation of Article 21 (1) 6 or Article 35 (1) of the Act.	Article 52 (1) 4	10,000,000 won