

## Content

Title : Administrative Regulations for Operators of Radioactive Material or Equipment Capable of Producing Ionizing Radiation [Ch](#)

Date : 2006.08.08

Legislative : 1. 中華民國九十一年十二月二十五日行政院原子能委員會會幅字第 09100 25069 號令訂定發布全文 13 條  
2. 中華民國九十四年二月二十三日行政院原子能委員會會幅字第 0940008 681 號令修正發布全文 12 條；並自發布日施行  
3. 中華民國九十五年八月八日行政院原子能委員會會幅字第 0950021002 號令修正發布第 7、10 條條文

Content : 1

Administrative Regulations for Operators of Radioactive Material or Equipment Capable of Producing Ionizing Radiation

Original 13 Articles promulgated by Atomic Energy Council, Executive Yuan on December 25, 2002 under Decree No. Hui-Fu-Tzu 0910025069

All 12 Articles revised and promulgated by Atomic Energy Council, Executive Yuan on February 23, 2005 under Decree No. Hui-Fu-Tzu 0940008681

Article 1

These regulations are stipulated pursuant to Article 31, Paragraph 3 of the Ionizing

Radiation Protection Act (hereinafter referred to as "this Act").

Article 2

The radiation related certificates stipulated in the proviso of Article 31, Paragraph 1 of

this Act refers to one of the following:

1. Radiology or nuclear medicine specialist license.
2. License issued in accordance with the Medical Radiologist Act.
3. Authorization certificate of radiation protection personnel issued in accordance with the stipulations of Article 7, Paragraph 3 of this Act.
4. Certificate of operators issued in accordance with the stipulations of Article 29,

Paragraph 5 and Article 30, Paragraph 2 of this Act.

Article 3

Persons engaged in operation training under the direction of qualified personnel, based on

educational need, as stipulated in the proviso of Article 31, Paragraph 1 of this Act, are

the following:

1. Teachers, researchers and students of middle schools, colleges and universities and academic research institutions.
2. Students at radiation protection training institutions authorized by the Competent Authority.
3. Doctors or dentists receiving clinical training or students or graduates of a medical school with a hospital practicum.
4. New recruits who are receiving pre-employment training.

Personnel referred to in the preceding paragraph shall, before operating radioactive material or equipment capable of producing ionizing radiation, attend lectures on

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operating procedures and radiation protection planned by qualified personnel. However,

when operating radioactive material or equipment capable of producing ionizing radiation

for which the Competent Authority has issued a certificate of permission it shall still be necessary to be directly supervised by qualified personnel. The lectures on operating procedures and radiation protection referred to in the preceding paragraph shall not be less than three hours. Except for operation training done at middle schools, colleges, and universities in courses approved by the educational competent authority, academic research institutions, hospitals and medical facilities shall keep on file for reference for a period of three years on information including title of lecture course, instructors, location, and names of trainees.

#### Article 4

Personnel operating radioactive material or equipment capable of producing ionizing radiation shall, except for the conditions stipulated in the proviso of Article 31, Paragraph 1 of this Act, meet one of the following important conditions and obtain certification; following testing and qualification by the Competent Authority, said personnel shall fill out an application form and send to the Competent Authority requesting the issuance of a radiation safety certificate:

1. Undergo training from a radiation protection training company that is authorized by the Competent Authority in line with procedures stipulated in Table 2 of the Regulations for Administration of Radiation Protection Service

Related Business.

2. Obtain more than four credits in radiation safety, health physics, physics of radiology, radiobiology, radiation measurement, radiation dosimetry or any other relevant coursework related to radiation protection authorized by the Competent Authority taken at a Taiwan public or legally registered private college or university or a foreign college or university that meets

Ministry of

Education recognition requirements.

3. Attend an ionizing radiation protection lecture course authorized or commissioned by the Competent Authority prior to the coming into force of this Act.

The training referred to in Subparagraph 1 of the preceding Paragraph may not be substituted by the training stipulated in Article 6, Paragraph 1, Subparagraph 1.

When, in fulfilling the requirements of an agreement for contracting, buying and selling, technical cooperation, a foreigner does work in the ROC within the scope of said

agreement and must operate radioactive material or equipment capable of producing

ionizing radiation, the facility operator who has made the agreement shall submit a

photocopy of foreign certification of operating or radiation protection training for said

foreigner, apply to the Competent Authority for review and obtain qualification before

said foreigner may engage in said work.

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#### Article 5

The specific radioactivity or specific energy levels stipulated in Article 31, Paragraph 2 of this Act are as follows:

1. For a toxic-gas detector, the radioactivity level of Americium-241 contained in

any component is 10 MBq, the surface dose rate at an accessible distance of 5 cm is 5 micro-sieverts ( $\mu$ Sv) per hour.

2. Radioactive material that forms a component of an instrument or manufactured product and that has a radioactivity less than 1,000 times that of the exemption level and the surface dose rate at an accessible distance of 5 cm is 5 microsieverts ( $\mu$ Sv) per hour.

3. The radioactivity of Nickel-63 contained in a gas chromatography instrument or explosive detector is 740 MBq.

4. The radioactivity of Americium-241 contained in a lightning rod is 370 MBq.

5. Radioactive materials besides those mentioned in the preceding four subparagraphs with a radioactive level of 100 times that of the exemption level.

6. For equipment capable of producing ionizing radiation, the nominal voltage is 150 kV or the particle energy is 150 keV.

7. Cabinet or baggage inspection X-ray machine, ion implanter, electron beam welding machine or static eliminator, the surface dose rate at an accessible distance of 5 cm is 5 micro-sieverts ( $\mu$ Sv) per hour.

8. Other material or equipment as designated by the Competent Authority.

#### Article 6

The training stipulated in Article 31, Paragraph 2 of this Act refers to one of the following, and with training certification:

1. Training in accordance with the stipulations of Table 2 of the Regulations for Administration of Radiation Protection Service Related Business conducted by a radiation protection training company authorized by the Competent Authority or conducted by the facility operator.

2. Obtain more than two credits in radiation safety, health physics, physics of radiology, radiobiology, radiation measurement, radiation dosimetry or any other relevant coursework related to radiation protection authorized by the Competent Authority taken at a Taiwan public or legally registered private college or university or a foreign college or university that meets Ministry of Education recognition requirements.

Prior to conducting the radiation protection training referred to in Subparagraph 1 of the preceding paragraph, facility operator shall submit the names of trainees, time and place of training, training course and number of hours, and instructor qualifications to the Competent Authority for reference. Related information shall be recorded and kept on file for at least ten years.

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#### Article 7

The radiation safety certificate is valid for a period of six years. Within three to six months prior to its expiration, the applicant may fill out an application form and attach proof of radiation protection training conducted by a radiation protection training company authorized by the Competent Authority or proof of regular educational training as stipulated in Article 14, Paragraph 4 of this Act, totaling more than 36

hours during the radiation safety certificate's period of validity and apply to the Competent Authority for a certificate renewal.

If the radiation safety certificate has expired, application may not be made for renewal in accordance with the stipulations of the preceding paragraph.

#### Article 8

For a request to replace a valid lost or damaged radiation safety certificate, an application form shall be filled out, with the relevant documentary proof attached and application made to the Competent Authority for a certificate replacement.

For a request to modify information on a valid radiation safety certificate and issue a renewal, application form shall be filled out, with the relevant documentary proof attached and application made to the Competent Authority for a certificate renewal.

For replacements and renewals referred to in the preceding two paragraphs, the period of validity will be the same as for the original certificate.

#### Article 9

If any one of the following situations obtains for the holder of a radiation safety certificate the Competent Authority may revoke or terminate said certificate:

1. Documents attached to the application for a radiation safety certificate contain false information.
2. The radiation safety certificate has been leased or lent for use to another person.
3. A crime has been committed in the course of business relating to Article 38 or 39 of this Act.
4. Any other situation determined by the Competent Authority to be a major violation.

If a radiation safety certificate has been revoked or terminated by the Competent Authority, a renewed application may not be made within one year after the effective date of revocation or termination.

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#### Article 10

Those who, before the implementation of this Act, have obtained an operating license from the Competent Authority, or before the implementation of this Act have obtained a formal notification of passing an examination for a non-medical operating license or have obtained a completion certificate for a lecture course in medical ionizing radiation protection, shall within two years of this Act coming into force fill out an application form and attach the original operating license, formal notification of passing an examination for a non-medical operating license or the original of a completion certificate for a lecture course in medical ionizing radiation protection and apply to the Competent Authority for a renewal of the radiation safety certificate.

The renewed radiation safety certificate stipulated in the preceding paragraph is valid from the date this Act comes into force.

Those who have not applied for a renewal within the period stipulated in the preceding

paragraph shall make a renewed application for a radiation safety certificate in accordance with the stipulations of Article 4.

Article 11

The format of all documents and forms stipulated in the regulations shall be determined by the Competent Authority.

Article 12

These regulations shall take effect on the day of promulgation.

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Data Source : Nuclear Safety Commission Laws and Regulations Retrieving System