 Specifying activities having a direct impact on nuclear safety and activities particularly important from the viewpoint of radiation protection, laying down requirements for qualification and professional training, a method of verification of the special professional competence and of granting authorizations to selected workers, and setting a format of documents to be approved for a licence to perform training of selected personnel

as amended by SÚJB Decree No. 315/2002 Coll.

The State Office for Nuclear Safety, pursuant to Section 47 paragraph 7, to implement Section 13 paragraph 3 letter d) and Section 18 paragraph 2 letter b), paragraphs 4 and 5 of Act No. 18/1997 Coll. on peaceful utilization of nuclear energy and ionizing radiation (the Atomic Act) and on amendments to and alterations of some acts, as amended by Act No. 13/2002 Coll. (hereinafter “the Act”), establishes as follows:

**Scope**

**Section 1**

This Decree

a) shall specify activities having a direct impact on nuclear safety and activities particularly important from the viewpoint of radiation protection,

b) shall establish requirements for qualification and professional training of selected workers of nuclear installations and selected workers handling ionizing radiation sources to acquire special professional competence,

c) shall lay down a method to verify special professional competence, a method to grant authorizations to selected workers (hereinafter “the authorizations”), and a scope and a format of documents subjects to approval to obtain a licence to perform training of selected workers of nuclear installations and selected workers handling sources of ionizing radiation.

**Section 2**

For the purposes of this Decree:

a) nuclear power installation means a nuclear installation under Section 2 letter h) item 1 of the Act, with a thermal output greater than 50 MW,

b) research nuclear installation means a nuclear installation under Section 2 letter h) item 1 of the Act, with a thermal output up to 50 MW including.

**Section 3**

Activities having a direct impact on nuclear safety and activities particularly important from the viewpoint of radiation protection
(1) Activities having a direct impact on nuclear safety mean working activities carried out at:
   a) a nuclear power installation, specifically
      1. activities performed in a control room and emergency control room, including self-reliant reactor shutdown, control and supervision in the course of a commissioning and operation of the entire nuclear power installation,
      2. activities performed in a control room and emergency control room, including self-reliant reactor shutdown, control and supervision in the course of a commissioning and operation of a single reactor unit,
      3. activities performed in a control room and emergency control room, including self-reliant reactor shutdown, control and supervision in the course of a commissioning and operation of a reactor unit’s primary part,
      4. activities performed in a control room and emergency control room, including self-reliant reactor shutdown, control and supervision in the course of a commissioning and operation of a reactor unit’s secondary part,
      5. a direct control of implementation of individual steps within tests of physical and power startup in a reactor unit’s control room,
      6. a control and supervision of handling individual fuel assemblies inside a reactor unit out of the fresh fuel storage equipment,
   b) a research nuclear installation, specifically
      1. activities performed in the control room and a direct control of implementation of individual steps within tests of reactor physical and power startup and a control and supervision of other activities related to a startup,
      2. activities performed in a control room and a control of and supervision of reactor’s commissioning, control and supervision of reactor’s operation, control and supervision of manipulations with fuel in a reactor’s core and management and supervision of the activities performed by the shift personnel,
      3. the control and supervision of the core setup and arrangement, implementation of physical measurements in the course of physical and power starts-up and control and supervision of the basic critical experiment,
      4. activities performed in the control room, the control and supervision of reactor’s commissioning and operation.

(2) Activities particularly important from the viewpoint of radiation protection mean:
   a) performance of a systematic supervision [Section 18 paragraph 1 letter i) of the Act] of the observance of radiation protection requirements, by
      1. supervisors at workplaces operated on the basis of a licence granted under Section 9 paragraph 1 letter d) of the Act, or at workplaces managing ionizing radiation sources on the basis of a licence granted under Section 9 paragraph 1 letter i) of the Act,
      2. persons with a direct responsibility for radiation protection during medical exposure performed at workplaces of category II and higher specified in the quality assurance program,
      3. other persons with direct responsibility for radiation protection during radiation practices, other than those specified under item 2, carried out on the basis of a licence granted under Section 9 paragraph 1 letter d), i), j), s) or r) of the Act, and specified in the quality assurance program,
b) evaluation of properties of ionizing radiation sources performed on the basis of a licence to manage sources of ionizing radiation granted under Section 9 paragraph 1 letter i) of the Act, through control and performance of tests specified in a special legal regulation ¹),
c) control of services performed on the basis of a licence granted under Section 9 paragraph 1 letter r) of the Act, specifically
1. personal dosimetry including that for the purposes of Section 6 paragraph 3 letter b) of the Act,
2. monitoring according to monitoring programs performed at workplaces of category III and IV, except licensee’s activities under Section 9 paragraph 1 letter d) of the Act,
3. measuring and evaluation of radon and its decay products concentration in buildings and determination of radon-related index of a site,
4. measuring and evaluation of natural radionuclides concentration in building materials, drinking water for public supply and bottled water.

Section 4
Requirements for qualification of selected personnel

(1) The required qualification of selected personnel of nuclear installations shall be defined as follows for activities under
a) Section 3 paragraph 1 letter a) item 1 – university degree in physical or technical sciences, going through a basic training and performance of activities under Section 3 paragraph 1 letter a) item 2 for a period of at least two years and going through a training for a change of activity,
b) Section 3 paragraph 1 letter a) item 2 - university degree in physical or technical sciences, going through a basic training and performance of activities under Section 3 paragraph 1 letter a) item 3 for a period of at least one year and performance of activities under Section 3 paragraph 1 letter a) item 4 for a period of at least one year and going through a training for a change of activity,
c) Section 3 paragraph 1 letter a) items 3, 5, 6 - university degree in physical or technical sciences, going through a basic training,
d) Section 3 paragraph 1 letter a) item 4 - university degree in physical or technical sciences, going through a basic training or graduation from a secondary school specialized in physics or technology, performance of activities in subordinated (related) positions for a period of at least four years and going through a basic training,
e) Section 3 paragraph 1 letter b) item 1 - university degree in physical or technical sciences, performance of activities under Section 3 paragraph 1 letter b) item 2 for a period of at least one year, performance of activities under Section 3 paragraph 1 letter b) item 3 for a period of at least one year and going through a training for a change of activity,
f) Section 3 paragraph 1 letter b) item 2 - university degree in physical or technical sciences, at least two years of relevant professional experience and going through a basic training and performance of activities under Section 3 paragraph 1 letter b) item 4 for a period of at least two years and going through a training for a change of activity or graduation from a secondary school specialized in physics or technology, at least five years of relevant professional experience and going through a basic training and performance of activities under Section 3 paragraph 1 letter b) item 4 for a period of at least two years and going through a training for a change of activity,
g) Section 3 paragraph 1 letter b) item 3 - university degree in physical or technical sciences, at least two years of relevant professional experience and going through a basic training,

¹) Decree No. 307/2002 Coll., on Radiation Protection
h) Section 3 paragraph 1 letter b) item 4 - university degree in physical or technical sciences, at least two years of relevant professional experience and going through a basic training or graduation from a secondary school specialized in physics or technology, at least five years of relevant professional experience and going through a basic training.

(2) Performance of activities as a part of the required qualification under Section 4 paragraph 1 letter a), b), d), e), f) shall be defined as performance of activities on an identical nuclear installation.

(3) For newly developed nuclear installations the State Office for Nuclear Safety (hereinafter the "Office") may recognize as a part of the required qualification under Section 4 paragraph 1 letters a), b), e), f) also performance of activities on a nuclear installation of a similar type, lasting at least six months.

(4) Qualification of selected personnel working with sources of ionizing radiation shall be defined as follows:
   a) for activities under Section 3 paragraph 2 letter a) item 1 at least a bachelor degree in a relevant field in case of systematic supervision over very significant or significant sources of ionizing radiation designed for medical exposure; in other cases under Section 3 paragraph 2 letter a) item 1 at least graduation from a secondary school specialized in a relevant field,
   b) for activities mentioned in Section 3 paragraph 2 letter a) item 2 qualification to perform a medical profession,
   c) for activities mentioned in Section 3 paragraph 2 letter a) item 3 at least graduation from a secondary school specialized in a relevant field,
   d) to control and perform tests for evaluation of ionizing radiation sources under Section 3 paragraph 2 letter b) at least graduation from a secondary school specialized in a relevant field and to control tests for evaluation of significant sources of ionizing radiation designed for medical exposure at least bachelor degree in a relevant field,
   e) for activities under Section 3 paragraph 2 letter c) items 1 and 2 at least bachelor degree in a relevant field,
   f) for activities mentioned in Section 3 paragraph 2 letter c) items 3 and 4 at least graduation from a secondary school specialized in a relevant field.

**Section 5**

**Requirements for professional training of selected personnel of nuclear installations to acquire the special professional competence**

(1) The professional training to acquire and maintain the special professional competence is conducted in the following stages:
   a) basic training,
   b) periodic refreshment training to maintain the qualification,
   c) training for a change of activity in case the performed activity is changed within Section 3 paragraph 1 letter a) or within Section 3 paragraph 1 letter b).

(2) The basic training shall consist of the following parts:
   a) classroom training,
   b) at least five-weeks' secondment at a nuclear installation,

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2) Decree No. 77/1981 Coll., on Medical Personnel and other Professional Staff in Healthcare
c) for activities under Section 3 paragraph 1 letter a) items 1, 2, 3 at least five weeks of training on a full scale simulator and for activities mentioned in Section 3 paragraph 1 letter a) item 4 at least three weeks of such training,
d) at least five weeks of initial training for the position.

(3) The periodic training shall include
a) classroom training,
b) for activities mentioned in Section 3 paragraph 1 letter a) items 1, 2, 3, 4 at least two weeks of training per year on a full scale simulator.

(4) Training for a change of activity shall consist of the following parts:
a) classroom training,
b) for activities mentioned in Section 3 paragraph 1 letter a) items 1, 2, 3, 4 at least one week of training on a full-scale simulator,
c) at least four weeks of initial training for the position.

(5) Going through the respective stage of professional training shall be a necessary precondition to grant an authorization.

Section 6
Requirements for professional training of selected personnel working with sources of ionizing radiation to acquire the special professional competence

(1) The professional training to acquire the special professional competence shall consist of
a) going through the basic training,
b) one year of experience
   1. in management of relevant ionizing radiation sources to perform activities under Section 3 paragraph 2 letter a) except stable industrial measuring equipment containing simple sources of ionizing radiation,
   2. in performance of tests in facilities of relevant licensees, manufacturers of applicable sources or servicing companies, to perform activities under Section 3 paragraph 2 letter b) on sources designed for medical exposure, provided such test shall be performed by personnel with at least bachelor degree under Section 4 paragraph 4 letter d),
   3. in performance of services and tests in facilities of relevant licensees, manufacturers of applicable sources or servicing companies to perform other activities under Section 3 paragraph 2 except those mentioned in Section 6 paragraph 1 letter c),
   c) two years of experience in performance of tests in facilities of relevant licensees, manufacturers of applicable sources or servicing companies to perform activities under Section 3 paragraph 2 letter b) on sources designed for medical exposure, provided such tests could be performed by personnel graduated from a secondary school under Section 4 paragraph 4 letter d),
   d) additional professional training (course) conducted by the licensee (Section 9 paragraph 1 letter n) of the Act) for the selected personnel performing activities under Section 3 paragraph 2 letter a) at workplaces with a defined controlled zone, and under Section 3 paragraph 2 letter b) and c).

(2) The basic training shall be focused on learning of radiation protection principles and procedures, including procedures for radiation incidents [Section 2 letter k) of the Act] and radiation accidents [Section 2 letter l) of the Act].
Section 7
Examination Commission

Activities performed by the State examination commission and Expert examination commissions of the Office, a method to conduct and evaluate the tests, their individual parts and other details are defined in the statutes of the commissions issued by the Office.

Section 8
A method to verify the special professional competence of selected personnel of nuclear installations

(1) The special professional competence of selected personnel of nuclear installations shall be verified through an exam before a State examination commission.

(2) The exam shall consist of
a) a test on a full scale simulator for activities under Section 3 paragraph 1 letter a) items 1 through 4,
b) written test,
c) oral test,
d) practical test.

(3) In case of authorization re-granting the State examination commission may decide to waive the practical test.

(4) An application for the exam submitted by the licensee under Section 9 paragraph 1 letter b), c), d), e), f) of the Act shall contain the following data:
a) name, legal form and seat of the licensee,
b) name, surname and date of birth of the selected employee,
c) the highest achieved qualification, including professional specialization of the selected employee,
d) name of the nuclear installation and working activities under Section 3 paragraph 1 for which the authorization is to be granted,
e) attestation of a professional training passed by the selected employee under Section 5,
f) confirmation of meeting the requirements under Section 17 paragraph 1 letter i) of the Act,
g) opinion on health capability of the selected employee (the opinion shall not be older than one year),
h) opinion on mental capability of the selected employee (the opinion shall not be older than two years),
i) confirmation of the course of previously performed working activities, whose going through is required under Section 4 for the performance of working activities under Section 3 paragraph 1 for which the authorization is to be granted.

(5) The licensee shall be responsible for correctness of the data provided in the application.

(6) Provided the employee fails the exam he/she may repeat the exam within a period from one to six months after the failed exam; a date of the exam shall be fixed by the State examination commission.
Section 9

A method to verify the special professional competence of selected personnel working with sources of ionizing radiation

(1) Verification of the special professional competence of selected personnel working with sources of ionizing radiation shall be in form of a written and oral exam before the Expert examination commission of the Office. For activities under Section 3 paragraph 2 requiring practical knowledge and skills the exam may also include a practical part.

(2) Verification of the special professional competence of selected personnel working with sources of ionizing radiation shall be performed based on an application for the exam submitted to the Office by a person whose special professional competence should be verified.

(3) The application shall include the following data:
   a) name, surname, date of birth, address,
   b) the highest achieved qualification, including the professional specialization,
   c) attestation of going through a professional training
   d) for selected workers, who are or intend to be in category A, opinion about their health capability,
   e) specification of activities for which the special professional competence should be verified,
   f) for activities under Section 3 paragraph 2 letter b) a c)
      1. methods of measurement and interpretation of results specified therein,
      2. results from participation in testing and comparing measurements,
      3. specimen reports about measurements and evaluation.

(4) Provided the employee fails the exam he/she may repeat the exam within a period from one to six months after the failed exam; a date of the exam shall be fixed by the Expert examination commission of the Office.

Section 10

A method of granting authorization to activities of selected personnel of nuclear installations

(1) The authorizations to activities of selected personnel of nuclear installations shall be granted by the Office based on an application submitted by the licensee and based on fulfillment of qualification requirements and verification of professional competence through an exam before a State examination commission; for the activities under Section 3 paragraph 1 letter a) items 3 and 4 and letter b) of item 4 for a period of two or four years at most, and for other activities for a period of two to eight years.

(2) The authorizations are granted for nuclear installations in the Czech Republic and for working activity under Section 3 paragraph 1.

(3) The authorizations to activities performed by selected personnel shall be valid on condition that the performance of working activities specified
   a) in Section 3 paragraph 1 letter a) items 1 through 4 has not been interrupted for a period longer than 6 months,
   b) in Section 3 paragraph 1 letter a) items 5 and 6 has not been interrupted for a period longer than eighteen months,
c) in Section 3 paragraph 1 letter b) items 1 through 4 has not been interrupted for a period longer than 12 months.

Section 11

A method of granting authorizations to selected personnel working with sources of ionizing radiation

(1) The authorizations shall be granted to the selected personnel working with sources of ionizing radiation by the Office based on fulfillment of the qualification requirements under Section 4 paragraph 4, fulfillment of requirements for professional training under Section 6, and verification of the training by passing an exam before an Expert examination commission.

(2) The authorizations are granted for working activities under Section 3 paragraph 2.

(3) The authorizations shall be granted to the selected personnel working with sources of ionizing radiation for activities with very significant sources of ionizing radiation for a period of two to eight years, and for other activities for a period of one to ten years. The authorizations to perform activities under Section 3 paragraph 2 letter a) item 2 shall be granted to the selected personnel for an indefinite period of time.

Section 12

Scope and form of documents required for a licence to perform a professional training of selected personnel of nuclear installations and of selected personnel working with sources of ionizing radiation

Documents describing a method of training the selected personnel shall mean

a) training methods, including procedures for evaluation and analysis of the selected personnel training process,

b) training programs defining the course of training in respect to the form, content, scope, objectives and method to achieve them, particularly a training synopsis and methods to verify knowledge, understanding, skills, practices and attitudes acquired in individual stages of the training process.

Section 13

Temporary Provisions

(1) Validity of authorizations for the selected personnel of nuclear installations and validity of a licence to train the selected personnel issued under the existing regulations shall remain unaffected.

(2) Validity of certificates issued under the Decree of the Ministry of Health of the Czech Socialist Republic No. 59/1972 Coll., on health protection against ionizing radiation, for persons supervising and directly managing, and authorizations issued for responsible representatives under the Act No. 85/1995 Coll., amending and altering Act No. 287/1993 Coll., on competence of the State Office for Nuclear Safety, and related provisions, shall expire five days after this Decree comes into effect.
Section 14

Entry into force

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

Chairman:
Ing. Štuller

Articles II and III of the SÚJB Decree No. 315/2002 Coll.

Article II

(1) Validity of authorization for selected personnel to perform activities at nuclear installations issued under the existing regulations shall expire after the elapse of term for which it was granted.

(2) Validity of authorizations under Section 3 paragraph 2 letter a), b) and c) items 6 and 7 of Decree No. 146/1997 Coll. granted under the existing regulations shall expire after the elapse of term for which it was granted, and

a) the performance of systematic supervision under Section 3 paragraph 2 letter b) of Decree No. 146/1997 Coll. shall be considered an activity of a supervising person under Section 3 paragraph 2 letter a) item 1 according to detailed specifications stated in the authorization (workplace type, classification of sources, etc.),

b) management of works under Section 3 paragraph 2 letter a) of Decree No. 146/1997 Coll. shall be considered an activity under Section 3 paragraph 2 letter a) items 2 and 3 hereof, according to the detailed specifications stated in the authorization (workplace type, classification of sources, etc.),

c) management of tests and services under Section 3 paragraph 2 letter c) items 6 and 7 of Decree No. 146/1997 Coll. shall be considered an activity under Section 3 paragraph 2 letter c) items 3 and 4 hereof, according to the detailed specifications stated in the authorization.

(3) Validity of authorizations under Section 3 paragraph 2 letter c) items 1 through 5 of Decree No. 146/1997 Coll. granted before the effective date hereof, shall expire after the elapse of term for which it was granted, however, by 31 December 2008 at the latest, and

a) management of tests and services under Section 3 paragraph 2 letter c) items 1 through 4 of Decree No. 146/1997 Coll. shall be considered the management and performance of tests of ionizing radiation sources under Section 3 paragraph 2 letter b) hereof, according to the detailed specifications stated in the authorization (type of activity, type of workplace, classification of sources, etc.),

b) management of tests and services under Section 3 paragraph 2 letter c) item 5 of Decree No. 146/1997 Coll. shall be considered management of personal dosimetric services under Section 3 paragraph 2 letter c) item 1 hereof, according to the detailed specifications stated in the authorization.
Article III

This Decree shall enter into force to the day of its publication, except the provision of Section 4 paragraph 4 letter d) in the part concerning the requirement for bachelor degree, which shall come into effect on 1 January 2006.

Chairperson:
Ing. Drábová