The Cabinet of Ministers Regulations
"On Issuance Of Licenses And Permits For Activities With Radioactive Substances And Other Ionizing Radiation Sources"
Unofficial translation

Approved on June 20, 1996
Regulations No. 223
Issued in accordance with
Articles 6 ,7 and 9 of the law
"On Radiation and Nuclear Safety"

Chapter I
General Provisions

1. The Present Regulations prescribe the procedure for granting licenses and permits (hereinafter - licenses and permits) for the activities with radioactive substances and other ionizing radiation sources.

2. License or Permit is required for any activity with radioactive substances, the amount thereof exceeding that of referred to in Annex 1, and other ionizing radiation sources, except those, which according to the present Regulations are regarded as exceptions, license is required for entrepreneurial activity or permit for any other type of activity. The standard forms of licenses and permits are given in Annex 2.

3. Licenses and permits are issued by the following authorities:

3.1 The State institutions which are subordinated or under supervision of Ministry of Welfare for activities with radioactive substances or other sources of ionizing radiation in medicine (Annex 2, form 2 and form 3).

3.2. Export-Import Control Department of Latvian Development Agency - licenses for export, import and transit of radioactive substances and nuclear materials accordingly to the Cabinet of Ministers Regulations No.179 of Export, Import and Transit of Strategic Goods, Products, Services and Technologies ("Latvijas Vestnesis", 1995, 104; 1996, 70).

3.3. Radiation and Nuclear Safety Inspectorate of Environmental State Inspectorate (hereinafter - Radiation and Nuclear Safety Inspectorate) - for all other activities (Annex 2: form 2, form 3, form 6, form 7, form 8)

4. The issuing of the licenses are carried out by Licensing Commissions established by the competent authorities.

5. Licenses and Permits are issued against a fee as stipulated in Annex 3 of the present Regulations. The above fees shall be included into special budget accounts of Ministry of Welfare or Environmental Protection and Regional Development, or in account of the Export-Import Control Department of Latvian Development Agency.

6. Permits and Licenses may be issued for a long-term period and may refer to several radiation sources for a definite period of time. Permits and Licenses shall be renewable.

7. Permit for shipment of radioactive substances shall be granted only if the Consignee already holds the license or permit for certain activities with substances to be received.

Chapter II
Licenses and Permits for export, import or transit of radioactive substances and other sources of ionizing radiation

8. Radiation and Nuclear Safety Inspectorate is solely entitled to make decision upon granting the license or permit for export or import of radioactive substances and nuclear materials, Annex 2 (form 6, form 7 and form 8)., if said substances and materials are not enclosed in The List of Strategic Dual Use Goods, Products, Services and Technologies approved by Export - Import Control Commission.

9. Export-Import Control Department of Latvian Development Agency, in accordance with Statutes of Strategic Export Import Control Committee, shall grant licenses for export, import and transit of radioactive substances and nuclear materials that are enclosed in The List of Strategic Dual Use Goods, Products, Services and Technologies, approved by Strategic Export Import Control Committee, providing that the respective entrepreneur holds the permit or license for certain activities with said materials.

Chapter III

The Rights and Obligations of Persons who conduct activities with radioactive substances and other ionizing radiation sources

10. Any legal or natural person (hereinafter "person"), who wish to perform activities indicated in article 2 and 12. of this Regulations, shall report thereof to the respective Authorities and has to receive permit or license. Prior to reception of License or Permit, as well as re-registration of License or Permit , a state duty payments, according to legal acts, and payments set by Annex 3 have to be made.

11. License or Permit is not required for activities prescribed by Law 'On Radiation Safety and Nuclear Safety' (Latvijas Vestnesis, 1994, 147) article 6 :

11.1. use or disposal of radioactive substances where the activities involved do not exceed the values given in Figure A column 2, Annex 1, or

11.2. use or disposal of radioactive substances, if the specific activity thereof on one mass unit does not exceed the values, specified in Figure A Column 3, Annex 1;

11.3. operations with any cathode ray tube, which do not cause in normal operational conditions, at any point situated at a distance of 0.1m from the accessible surface of the apparatus, a dose rate exceeding 1 m Sv/h or the potential difference is less than 5kV,

11.4. use of radioisotopic smoke detectors, using isotope Am^{241}, the activity for one detector not exceeding 50 kBq and the total amount of them - 100pcs.

12. Permits or Licenses are mandatory for:

12.1. Construction, running, termination of any enterprise, using nuclear fuel;

12.2. disposal of radioactive substances or processing of materials containing radioactive substances, if their activity exceed the values given in Figure A, Annex 1;

12.3. addition of radioactive substances for manufacturing and marketing of medical or consumer goods;

12.4. the administration of radioactive substances to persons or animals in medicine or veterinary (for purposes of diagnosis, treatment or research);

12.5. use of elementary particles accelerators and x-ray equipment or radioactive sources for humans (for purposes of diagnosis, treatment or research);

12.6. use of x-ray equipment or radioactive substance containing radiation sources for industrial radiography or manufacturing of goods,

12.7. use of elementary particles accelerators, except for electron microscopes,

12.8. the manufacture, import, export, transportation, sale, transfer, lease, acquisition, use, storage, reparation, installation or any other comparable activity with electrical devices, which cause in normal operational conditions, at any point situated at a distance of 0.1m from the accessible surface of the apparatus, a dose rate exceeding 1 m Sv/h or the potential difference is more than 5kV,

12.9. activities with radioactive substances - manufacturing, import, export, transportation, sale, transfer, lease, acquisition, possession, use, storage and processing if their activity exceed the values given in Figure A, Annex 1;

13. Any persons subjected to the jurisdiction of the Republic of Latvia may be granted a License or Permit in the order prescribed in Chapter 5. If the Person is not subjected to the jurisdiction of the Republic of Latvia, License or Permit can be obtained by the Person's authorized legal entity, subjected to the jurisdiction of the Republic of Latvia, and this legal entity shall bear full liability for activities conducted.

14. Person, who has been refused the license or permit, has the right to appeal the decision to the respective Ministry within 30 days; and the person may appeal ministry's decision according to the law.

15. Person, who wishes to conduct activities with radioactive substances and other ionizing radiation sources, stipulated in Article 11 of present Regulations, can obtain a Notice stating that license or permit is not required for said activities. The request for notice shall be submitted to the Radiation and Nuclear Safety Inspectorate; a standard form is given in Annex 2 (form 4). The Notice is valid for period of 6 month upon the date of issue. The standard form is given in Annex 2 (form 5).

16. The holder of the License or Permit shall keep all the documentation on activities with radioactive substances and other ionizing radiation sources and copies of documents, submitted for license application for 3 years after:

16.1. disposal of radioactive substances at the disposal site for radioactive waste (except documents submitted together with radioactive waste),

16.2. unusable non-isotopic ionizing radiation sources after the termination of their operation and prepared statement on it.

17. If activities with radioactive substances and other ionizing radiation sources are terminated by transferring permit for activities with radioactive substances and other ionizing radiation sources to the other person, who has obtained the respective license or permit and therefore bearing full liability for the aforesaid materials and radiation sources, then all technical documentation regarding to radioactive substances and other sources of ionizing radiation should also be transferred to aforesaid person.

Chapter IV
Conditions for issuance of Permits and Licenses

1. Duty for import of radioactive substances into the Republic Latvia

18. To obtain the license for import of radioactive substances, the license applicant shall make a payment for import of radioactive substances into the Republic of Latvia. The application of license shall be submitted together with document confirming payment of such duty. The amount of duty is set according to the activity and toxicity of radioactive substances, (Annex 4, Annex 5).
19. The Duty shall not be imposed on Import of such radioactive substances containing radionuclides that in the result of decay do not generate long-lived radioactive isotopes and half-life period of mother isotopes is less than 30 days.
20. When the license is granted for several separate import transactions, the documentary confirmation of made payments is required for import of each shipment of radioactive substances.
21. When required, the license applicant may receive guidance from Radiation and Nuclear Safety Inspectorate regarding payments, with respect to Annex 4 of present Regulations, concerning import of specific radioactive substances in The Republic of Latvia.
22. A payment of duty for import of radioactive substances shall be made into account of state enterprise "Radons". These finances shall be split and used accordingly:

22.1. 20% - to ensure environmental protection activities at the enterprise,

22.2. 30% - to invest to prepare disposal of radioactive waste,

22.3. 10% - for municipality of Baldone,

22.4. 40% - for State Enterprise "Radons" Guarantee Fund.

23. Guarantee Fund of the state enterprise "Radons" shall be used to cover radioactive waste pretreatment and disposal expenses, for waste generated by use of imported radioactive materials in to the Republic of Latvia, the rest of payments - to ensure the management of such activities.
24. The calculation for payments for state enterprise "Radons" Guarantee Fund shall be based on the activity of the moment of import, but all the other payments shall be based on the activity of the estimated moment of disposal.
25. In case of Sealed radionuclide radiation sources, if total activity exceeds 10 TBq, a decreased customs duty rate 5 shall be applied (Annex 4, column 4 shall be referred to for calculations of payments).
26. When Purchase Contract stipulates the consignment of used radiation sources back to the country of origin, the Duty for import of radioactive substances in The Republic of Latvia shall not be imposed on Consignees of radioactive substances, except payment into Guarantee Fund.
27. When Recipient of radioactive substances confirms, that all radioactive substances are forwarded back to country of their origin, the state enterprise "Radons" will reimburse amount paid to Guarantee fund, according to the order set by the minister of environmental protection and regional development.

2. Physical Protection Requirements for Radioactive Substances and Other Ionizing Radiation Sources

28. To obtain a license or permit, the physical protection of materials or facilities shall be ensured, in accordance with the requirements set by the Ministry of Interior and Radiation and Nuclear Safety Inspectorate:

28.1. Security alarm and intruder delay systems must ensure the probability of protection and security not less that 75%, except for ionizing radiation objects of State importance, the probability thereof shall be not less than 85%,

28.2. For analysis of physical protection systems the following software - EASI and SAVI or ASSES shall be used, developed by USA National Sandia Laboratory.

29. The license application shall be submitted along with design of physical protection and the statement based on calculations made by Security police of the Ministry of Interior.

3. Requirements of Insurance Against the Third Party Liability

30. To obtain the license or permit, the applicant must observe the principle of the compulsory insurance of the employees, working with radioactive materials and other sources of ionizing radiation (hereinafter - personnel) and of the civil liability for damages that can be caused to a third party, its property and the environment, as prescribed by Subarticle 4, Article 3 of Law 'On Radiation Safety and Nuclear Safety'. License application shall be submitted together with copies of relevant insurance polices as a proof of such insurance.

31. The minimum amount of insurance against third party is prescribed in Annex 6 of the present Regulations. The amount of insurance premium is estimated by the respective insurance company after potential risk assessment and evaluation of probability of damage carried out by qualified experts.

4. Technical Safety Requirements For Ionizing Radiation Facilities

32. To obtain the license or permit for activities with ionizing radiation equipment, applicant shall ensure use or storage of such equipment according to the technical requirements to aforesaid equipment. A copy of permit to operate or store the equipment, issued by authorized state technical supervision authority shall be submitted along with license application.

5. Qualification Requirements For Job Operators and Personnel

33. To obtain the license or permit, license application shall be submitted along with Statement, certifying the appropriate professional skills for personnel and Job operators, made by Relevant Qualification Certification Commission.

34. The minimum qualification requirements for job operator is to have background of higher technical or medical education and additional training in the field of radiation safety and nuclear safety and at least 3 years experience of job performer, taking into account also time period in which he or she received specific training in radiation safety.

35. Qualification Certification Commission shall have representative from the respective Authority, who shall test whether the educational background of the applicant in the field of radiation safety and nuclear safety corresponds to the professional job requirements. Professional vocational suitability shall be assessed by professional experts of the respective field union, and in the absence of such, by relevant lecturer from professional educational establishments.

36. In Enterprises (entrepreneurial companies) operate with simple sealed radiation sources, that do not require the direct on-site presence of Job Operator, and the radiation exposure dose rate under operating conditions in 1m distance is less than 1 m Sv/h, then as an exception, the Job Operator may be a person who has special secondary education besides 5 years experience of job performer and the additional training in the field of radiation safety and nuclear safety.

37. The job performers must have secondary education and additional training in the field of radiation safety and nuclear safety. Their professional skills and knowledge shall be examined the job operator, assisted by professional experts of the respective field union, in the absence of such, by the job operators from similar facilities.

Chapter V
The Procedure To Obtain a License and Permit

38. Person, who wishes to obtain a license or permit shall fill out an Application (Annex 2, form 1) and submit to the relevant licensing commission. Submitted documents shall be done in official state language. Exceptions are Technical Documentation for activities with radioactive substances and other ionizing radiation sources if the supplier is not subjected to the jurisdiction of the Republic of The Republic of Latvia. In that case the aforementioned documentation shall be drafted up in any of the UN official languages. When required by licensing commission, the applicant shall provide the translation thereof.

39. Along with submission of Application, the originals of following documents shall be presented and copies submitted to licensing commission:

39.1. purchase contract or document confirming the act of presenting radioactive substances and other ionizing radiation sources into possession or tenure,

39.2. certificate or technical documentation, providing information on radioactive substances and other ionizing radiation sources,

39.3. legal entity - registration certificate, natural person - passport,

39.4. insurance policies for personnel and for of insurance against third party liability, prescribed in article 30 of the present Regulations,

39.5. design of physical protection system and Statement by Security Police of the Ministry of Interior prescribed in article 29 of the present Regulations,

39.6. list of personnel who perform work under conditions of ionizing radiation, along with information on medical examination and qualification prescribed in article 33 of the present Regulations,

39.7. Contract with state enterprise 'Radons' on disposal of radioactive waste, if such shall arise in the course of planned activities,

39.8. Plans and Specifications of the premises or sites where the activities with radioactive substances and other ionizing radiation sources are performed.

40. The applicant for export license shall submit written notification from the Consignee of radiation sources to licensing commission, stating the conformity to the provisions set in the country of destination. The copy of notification shall be submitted to Radiation and Nuclear Safety Inspectorate which informs the export license applicant about decision - issuance or refusal of the export license.

41. If the license holder changes his/her legal address or the working place at the moment of receiving license or license in force, he/she shall notify on it to the licensing commission within 10 days, otherwise licensing commission has the right to refuse granting the license or annul the existing one.

42. Officials of the licensing commission shall guarantee the secrecy of submitted confidential information.

43. The licensing commission verifies the data indicated in the submitted documentation, and shall make decision and notify the applicant on the issuance/refusal of the license/permit within 20 days from the date of reception of the documents.

44. If a complex investigation is required prior to granting the license, as for Ionizing radiation objects of state importance or for other specific cases, licensing commission shall inform the applicant on aforementioned investigation, and the final decision shall be made within 50 days from the date of reception of the documents.

45. When granting the export/import license to Consignee, Radiation and Nuclear Safety Inspectorate shall inform the Customs Department at the Ministry of Finance thereof.

46. If the applicant for license himself alone can only meet the radiation source storage safety requirements, he may be granted a Storage Permit. The License for performing of other activities with radiation sources may be granted to a person, that performs the operation of the said sources and bears full liability thereof.

47. The Person, who performs the installation and service to smoke detectors shall be granted a license only for such activities and a license for leasing or transfer into use thereof. In this case a License shall not be granted for selling.

48. The Person who holds radioisotopic smoke detectors, shall be granted a Storage Permit only.

Chapter VI
The Procedure for Licensing of the Ionizing Radiation Sources of State Significance

49. When a license application is submitted for ionizing radiation sources of State significance: to Radioactive waste disposal site of State Enterprise 'Radons' or to Nuclear Reactor of Nuclear Research Center of Latvia's Academy of Science, the Radiation and Nuclear Safety Inspectorate shall inform thereof general public via relevant municipalities, Newspaper 'Latvijas Vestnesis' and newspapers of Riga region.

50. Respective municipalities and population of Riga district may receive information regarding license application at the Radiation and Nuclear Safety Inspectorate, except for :

50.1. information on physical protection and security systems,

50.2. information protected by June 26, 1995 Cabinet Regulations No. 179 "On Export, Import and Transit of Strategic Goods, Products, Services and Technologies",

50.3. other information set out in relevant legal acts.

51. The Radiation and Nuclear Safety Inspectorate shall make decision on issuance or refusal of the licenses within 30 days from the date when respective municipalities and inhabitants had been informed about license application for state significance sources of ionizing radiation in accordance to the Article 49

of the present Regulations. Written proven objections and proposals from municipalities and general public should be taken into consideration when granting licenses.
52. License applicant together with Radiation and Nuclear Safety Inspectorate and persons that have submitted objections or proposals shall mutually come to an agreement upon issues of concern if the objections and proposals are timely submitted in writing. If agreement thereof is not reached within 20 days, the disputes shall be resolved in accordance with the Law. If any objections raise after the granting of licenses, the disputes shall be resolved by on-site inspection.

Chapter VII
The Termination and Renewal of Licenses and Permits

53. Export, import licenses are issued once for each consignment of goods, but other type of licenses or permits are valid for the period of 3 years.
54. Licenses and Permits shall be annulled, if in the course of review of person's activities:

54.1. activities, not permitted by license or permit are disclosed in the course of inspection,

54.2. serious violations of radiation safety and nuclear safety standards and regulations are disclosed in the course of inspection.

55. Licenses and Permits shall be renewed if there are significant alterations in person's activities and legal acts. In this case all the documentation referred to in Chapter V of present Regulations shall be submitted once again to the licensing committee. If the address of the license holder has changed, only the information of such changes shall be submitted.

Chapter VII
The Procedure for the Import and Export of Radioactive Substances and Other Ionizing Radiation Sources

56. Customs Services shall permit the export or import only if a respective License has been granted.
57. Person, who deals with export/import of radioactive substances and other ionizing radiation sources, or has prepared the consignment of the said substances and sources, shall submit to respective Competent Authorities the following information on consignments on a quarterly basis within 21 days (every three moths):

57.1. name and address of the Consignee; 57.2. number of consignments, total activity for each isotope in each consignment:

57.4. type of consignment : sealed sources or other.

58. Importer or Exporter of radioactive substances shall submit, within 10 days, the Control Certificate (Annex 2, form 9) to Radiation and Nuclear Safety Inspectorate to confirm that the goods have been transported across the state border of the Republic of Latvia.
59. If Customs control requires the involvement of experts of radiation safety and nuclear safety, the radioactive substances and other ionizing radiation sources, until the completion of relevant investigations, shall be stored only at the Ministry of Finance Customs Department warehouse special sections that have appropriate physical protection and ionizing radiation safety installments. Ministry of Finance Customs Department shall receive a permission from Radiation and Nuclear Safety Inspectorate on use of aforesaid warehouse for storage of the radioactive substances and other ionizing radiation sources under the same procedure as for other legal entities that foresee the storage of aforementioned materials and sources.

Chapter VIII
Liability

60. For violation of the Regulations of the Cabinet of Ministers on activities with radioactive substances and other ionizing radiation sources one shall be held liable according to the laws and other legal acts.
Prime minister
A.Skele
Minister of Environmental Protection and Regional Development
M. Gailis

Annex 1 to Cabinet regulations No. 223 of June 20, 1996:

"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Annex 1 to Cabinet regulations No. 223

Values of Activities and Specific Activities of Radionuclides, The Excession of which Requires a License or Permit

1. Figures A and B of this Annex comply with International Atomic Energy Agency International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. (Safety series, ISSN 0074-1892;115. Safety standards, Vienna: International Atomic Energy Agency, 1996).
2. Figure A enlists values of activity and of specific activity of main radioactive nuclides, the exceeding thereof require for obtaining a license or permit .
3. Radionuclides not included in Figure A shall be assigned by Radiation and Nuclear Safety Inspectorate of Environmental State Inspectorate.
4. Nuclides marked with "+" or " sec " in Figure A show the incorporated nuclides and its daughters in equilibrium relation as in Figure B. In this case the values indicated in Figure A are applicable to Mother nuclides, as well as to Daughter nuclides. This means that activities of mother nuclides and daughter nuclides shall not be summed, the value set for mother nuclide shall be applied.
5. The Mixture of Radionuclides shall sum the each nuclide concentration expressed in percents to total amount divided by the value laid down in Figure 1, The application to obtain license or permit is not necessary if the sum thereof is less than or equal to 100 percent.

Figure A

Values of Activities and Specific Activities of Radionuclides, the Excession of Which Requires a License or Permit

Nuclide	Activity, Bq	Specific Activity, Bq/g
^{3}H	10^{9}	10^{6}
^{7}Be	10^{7}	10^{3}
^{14}C	10^{7}	10^{4}
^{15}O	10^{9}	10^{2}
^{18}F	10^{6}	10
^{22}Na	10^{6}	10
^{24}Na	10^{5}	10
^{31}Si	10^{6}	10^{3}
^{32}P	10^{5}	10^{3}
^{33}P	10^{8}	10^{5}
^{35}S	10^{8}	10^{5}
^{36}Cl	10^{6}	10^{4}
^{38}Cl	10^{5}	10
^{37}Ar	10^{8}	10^{6}
^{41}Ar	10^{9}	10^{2}
^{40}K	10^{6}	10^{2}
^{42}K	10^{6}	10^{2}
^{43}K	10^{6}	10
^{45}Ca	10^{7}	10^{4}
^{47}Ca	10^{6}	10
^{46}Sc	10^{6}	10
^{47}Sc	10^{6}	10^{2}
^{48}Sc	10^{5}	10
^{48}V	10^{5}	10
^{51}Cr	10^{7}	10^{3}
^{51}Mn	10^{5}	10
^{52}Mn	10^{5}	10
^{52m}Mn	10^{5}	10
^{53}Mn	10^{9}	10^{4}

^{54}Mn	10^{6}	10
^{56}Mn	10^{5}	10
^{52}Fe	10^{6}	10
^{55}Fe	10^{6}	10^{4}
^{59}Fe	10^{6}	10
^{55}Co	10^{6}	10
^{56}Co	10^{5}	10
^{57}Co	10^{6}	10^{2}
^{58}Co	10^{6}	10
^{58m}Co	10^{7}	10^{4}
^{60}Co	10^{5}	10
^{60m}Co	10^{6}	10^{3}
^{61}Co	10^{6}	10^{2}
^{62m}Co	10^{5}	10
^{59}Ni	10^{8}	10^{4}
^{63}Ni	10^{8}	10^{5}
^{65}Ni	10^{6}	10
^{64}Cu	10^{6}	10^{2}
^{65}Zn	10^{6}	10
^{69}Zn	10^{6}	10^{4}
^{69m}Zn	10^{6}	10^{2}
^{72}Ga	10^{5}	10
^{71}Ge	10^{8}	10^{4}
^{73}As	10^{7}	10^{3}
^{74}As	10^{6}	10
^{76}As	10^{5}	10^{2}
^{77}As	10^{6}	10^{3}
^{75}Se	10^{6}	10^{2}
^{82}Br	10^{6}	10
^{74}Kr	10^{9}	10^{2}
^{76}Kr	10^{9}	10^{2}
^{77}Kr	10^{9}	10^{2}
^{79}Kr	10^{9}	10^{3}
^{81}Kr	10^{7}	10^{4}
^{83m}Kr	10^{12}	10^{5}
^{85}Kr	10^{11}	10^{5}
^{85m}Kr	10^{10}	10^{3}
^{87}Kr	10^{9}	10^{2}
^{88}Kr	10^{9}	10^{2}
^{86}Rb	10^{5}	10^{2}
^{85}Sr	10^{6}	10^{2}
^{85m}Sr	10^{7}	10^{2}
^{87m}Sr	10^{6}	10^{2}
^{89}Sr	10^{6}	10^{3}
$^{90}Sr+$	10^{4}	10^{2}
^{91}Sr	10^{5}	10
^{92}Sr	10^{6}	10
^{90}Y	10^{5}	10^{3}
^{91}Y	10^{6}	10^{3}
^{91m}Y	10^{6}	10^{2}
^{92}Y	10^{5}	10^{2}

^{93}Y	10^{5}	10^{2}
$^{93}Zr+$	10^{7}	10^{3}
^{95}Zr	10^{6}	10
$^{97}Zr+$	10^{5}	10
^{93m}Nb	10^{7}	10^{4}
^{94}Nb	10^{6}	10
^{95}Nb	10^{6}	10
^{97}Nb	10^{6}	10
^{98}Nb	10^{5}	10
^{90}Mo	10^{6}	10
^{93}Mo	10^{8}	10^{3}
^{99}Mo	10^{6}	10^{2}
^{101}Mo	10^{6}	10
^{96}Tc	10^{6}	10
^{96m}Tc	10^{7}	10^{3}
^{97}Tc	10^{8}	103
^{97m}Tc	10^{7}	10^{3}
^{99}Tc	10^{7}	10^{4}
^{99m}Tc	10^{7}	10^{2}
^{97}Ru	10^{7}	10^{2}
^{103}Ru	10^{6}	10^{2}
^{105}Ru	10^{6}	10
$^{106}Ru+$	10^{5}	10^{2}
^{103m}Ru	10^{8}	10^{4}
^{105}Rh	10^{7}	10^{2}
^{103}Pd	10^{8}	10^{3}
^{109}Pd	10^{6}	10^{3}
^{105}Ag	10^{6}	10^{2}
^{110m}Ag	10^{6}	10
^{111}Ag	10^{6}	10^{3}
^{109}Cd	10^{6}	10^{4}
^{115}Cd	10^{6}	10^{2}
^{115m}Cd	10^{6}	10^{3}
^{111}In	10^{6}	10^{2}
^{113m}In	10^{6}	10^{2}
^{114m}In	10^{6}	10^{2}
^{115m}In	10^{6}	10^{2}
^{113}Sn	10^{7}	10^{3}
^{125}Sn	10^{5}	10^{2}
^{122}Sb	10^{4}	10^{2}
^{124}Sb	10^{6}	10
^{125}Sb	10^{6}	10^{2}
^{123m}Te	10^{7}	10^{2}
^{125m}Te	10^{7}	10^{3}
^{127}Te	10^{6}	10^{3}
^{127m}Te	10^{7}	10^{3}
^{129}Te	10^{6}	10^{2}
^{129m}Te	10^{6}	10^{3}
^{131}Te	10^{5}	10^{2}
^{131m}Te	10^{6}	10
^{132}Te	10^{7}	10^{2}

^{133}Te	10^5	10
^{133m}Te	10^5	10
^{134}Te	10^6	10
^{123}I	10^7	10^2
^{125}I	10^6	10^3
^{126}I	10^6	10^2
^{129}I	10^5	10^2
^{130}I	10^6	10
^{131}I	10^6	10^2
^{132}I	10^5	10
^{133}I	10^6	10
^{134}I	10^5	10
^{135}I	10^6	10
^{131m}Xe	10^4	10^4
^{133}Xe	10^4	10^3
^{135}Xe	10^{10}	10^3
^{129}Cs	10^5	10^2
^{131}Cs	10^6	10^3
^{132}Cs	10^5	10
^{134m}Cs	10^5	10^3
^{134}Cs	10^4	10
^{135}Cs	10^7	10^4
^{136}Cs	10^5	10
$^{137}Cs+$	10^4	10
^{138}Cs	10^4	10
^{131}Ba	10^6	10^2
$^{140}Ba+$	10^5	10
^{140}La	10^5	10
^{139}Ce	10^6	10^2
^{141}Ce	10^7	10^2
^{134}Ce	10^6	10^2
$^{144}Ce+$	10^5	10^2
^{142}Pr	10^5	10^2
^{143}Pr	10^6	10^4
^{147}Nd	10^6	10^2
^{149}Nd	10^6	10^2
^{147}Pm	10^7	10^4
^{149}Pm	10^6	10^3
^{151}Sm	10^8	10^4
^{153}Sm	10^6	10^2
^{152}Eu	10^6	10
^{152m}Eu	10^6	10^2
^{154}Eu	10^6	10
^{155}Eu	10^7	10^2
^{153}Gd	10^7	10^2
^{159}Gd	10^6	10^3
^{160}Tb	10^6	10
^{165}Dy	10^6	10^3
^{166}Dy	10^6	10^3
^{166}Ho	10^5	10^3
^{169}Er	10^7	104

^{171}Er	10^{6}	10^{2}
^{170}Tm	10^{6}	10^{3}
^{171}Tm	10^{8}	10^{4}
^{175}Yb	10^{7}	10^{3}
^{177}Lu	10^{7}	10^{3}
^{181}Hf	10^{6}	10
^{182}Ta	10^{4}	10
^{181}W	10^{7}	10^{3}
^{185}W	10^{7}	10^{4}
^{187}W	10^{6}	10^{2}
^{186}Re	10^{6}	10^{3}
^{188}Re	10^{5}	10^{2}
^{185}Os	10^{6}	10
^{191}Os	10^{7}	10^{2}
^{191m}Os	10^{7}	10^{3}
^{193}Os	10^{6}	10^{2}
^{190}Ir	10^{6}	10
^{192}Ir	10^{4}	10
^{194}Ir	10^{5}	10^{2}
^{191}Pt	10^{6}	10^{2}
^{193m}Pt	10^{7}	10^{3}
^{197}Pt	10^{6}	10^{3}
^{197m}Pt	10^{6}	10^{2}
^{198}Au	10^{6}	10^{2}
^{199}Au	10^{6}	10^{2}
^{197}Hg	10^{7}	10^{2}
^{197m}Hg	10^{6}	10^{2}
^{203}Hg	10^{5}	10^{2}
^{200}Tl	10^{6}	10
^{201}Tl	10^{6}	10^{2}
^{202}Tl	10^{6}	10^{2}
^{204}Tl	10^{4}	10^{4}
^{203}Pb	10^{6}	10^{2}
$^{210}Pb+$	10^{4}	10
$^{212}Pb+$	10^{5}	10
^{206}Bi	10^{5}	10
^{207}Bi	10^{6}	10
^{210}Bi	10^{6}	10^{3}
$^{212}Bi+$	10^{5}	10
^{203}Po	10^{6}	10
^{205}Po	10^{6}	10
^{207}Po	10^{6}	10
^{210}Po	10^{4}	10
^{211}At	10^{7}	10^{3}
$^{220}Rn+$	10^{7}	10^{4}
$^{222}Rn+$	10^{8}	10
$^{223}Ra+$	10^{5}	10^{2}
$^{224}Ra+$	10^{5}	10
^{225}Ra	10^{5}	10^{2}
$^{226}Ra+$	10^{4}	10
^{227}Ra	10^{6}	10^{2}

^{228}Ra+	10^{5}	10
^{228}Ac	10^{6}	10
^{226}Th+	10^{7}	10^{3}
^{227}Th	10^{4}	10
^{228}Th+	10^{4}	1
^{229}Th+	10^{3}	1
^{230}Th	10^{4}	1
^{231}Th	10^{7}	10^{3}
^{232}Th^{sec}	10^{3}	1
^{234}Th+	10^{5}	10^{3}
^{230}Pa	10^{6}	10
^{231}Pa	10^{3}	1
^{233}Pa	10^{7}	10^{2}
^{230}U+	10^{5}	10
^{231}U	10^{7}	10^{2}
^{232}U+	10^{3}	1
^{233}U	10^{4}	10
^{234}U	10^{4}	10
^{235}U+	10^{4}	10
^{236}U	10^{4}	10
^{237}U	10^{6}	10^{2}
^{238}U+	10^{4}	10
^{238}U^{sec}	10^{3}	1
^{239}U	10^{6}	10^{2}
^{240}U	10^{7}	10^{3}
^{240}U+	10^{6}	10
^{237}Np+	10^{3}	1
^{239}Np	10^{7}	10^{2}
^{240}Np	10^{6}	10
^{234}Pu	10^{7}	10^{2}
^{235}Pu	10^{7}	10^{2}
^{236}Pu	10^{4}	10
^{237}Pu	10^{7}	10^{3}
^{238}Pu	10^{4}	1
^{239}Pu	10^{4}	1
^{240}Pu	10^{3}	1
^{241}Pu	10^{5}	10^{2}
^{242}Pu	10^{4}	1
^{234}Pu	10^{7}	10^{3}
^{244}Pu	10^{4}	1
^{241}Am	10^{4}	1
^{242}Am	10^{6}	10^{3}
^{242m}Am+	10^{4}	10
^{234}Am+	10^{3}	1
^{242}Cm	10^{5}	10^{2}
^{243}Cm	10^{4}	1
^{244}Cm	10^{4}	10
^{245}Cm	10^{3}	1
^{246}Cm	10^{3}	1
^{247}Cm	10^{3}	1
^{248}Cm	10^{3}	1

^{249}Bk	10^6	10^3
^{246}Cf	10^6	10^3
^{248}Cf	10^4	10
^{249}Cf	10^3	1
^{250}Cf	10^4	10
^{251}Cf	10^3	1
^{252}Cf	10^4	10
^{253}Cf	10^5	10^2
^{254}Cf	10^3	1
^{253}Es	10^5	10^2
^{254}Es	10^4	10
^{254m}Es	10^6	10^2
^{254}Fm	10^7	10^4
^{256}Fm	10^6	10^3

Figure B

List of Nuclides in Secular Equilibrium

Mother Nuclide	Daughter nuclide (Progenies)
^{90}Sr+	^{90}Y
^{93}Zr+	^{93m}Nb
^{97}Zr+	^{97}Nb
^{106}Ru+	^{106}Rh
^{137}Cs+	^{137m}Ba
^{134}Ce+	^{134}La
^{144}Ce+	^{144}Pr
^{140}Ba+	^{140}La
^{212}Bi+	^{208}Tl (0.36), ^{212}Po (0.64)
^{210}Pb+	^{210}Bi, ^{210}Po
^{212}Pb+	^{212}Bi, ^{208}Tl (0.36), ^{212}Po (0.64)
^{220}Rn+	^{216}Po
^{222}Rn+	^{218}Po, ^{214}Pb, ^{214}Bi, ^{214}Po
^{223}Ra+	^{219}Rn, ^{215}Po, ^{211}Pb, ^{211}Bi, ^{207}Tl
^{224}Ra+	^{220}Rn, ^{216}Po, ^{212}Pb, ^{212}Bi, ^{208}Tl (0.36), ^{212}Po (0.64)
^{226}Ra+	^{222}Rn, ^{218}Po, ^{214}Pb, ^{214}Bi, ^{214}Po, ^{210}Pb, ^{210}Bi, ^{210}Po
^{228}Ra+	^{228}Ac
^{226}Th+	^{222}Ra, ^{218}Rn, ^{214}Po
^{228}Th+	^{224}Ra, ^{220}Rn, ^{216}Po, ^{212}Pb, ^{212}Bi, ^{208}Tl (0.36), ^{212}Po (0.64)
^{229}Th+	^{225}Ra, ^{225}Ac, ^{221}Fr, ^{217}At, ^{213}Bi, ^{213}Po, ^{209}Pb
^{232}Th^{sec}	^{228}Ra, ^{228}Ac, ^{228}Th, ^{224}Ra, ^{220}Rn, ^{216}Po, ^{212}Pb, ^{212}Bi, ^{208}Tl (0.36), ^{212}Po (0.64)
^{234}Th+	^{234m}Pa
^{230}U+	^{226}Th, ^{222}Ra, ^{218}Rn, ^{214}Po
^{232}U+	^{228}Th, 224Ra, ^{220}Rn, ^{216}Po, ^{212}Pb, ^{212}Bi, ^{208}Tl (0.36), ^{212}Po (0.64)
^{235}U+	^{231}Th
^{238}U+	^{234}Th, ^{234m}Pa
^{238}U^{sec}	^{234}Th, ^{234m}Pa, ^{234}U, ^{230}Th, ^{226}Ra, ^{222}Rn, ^{218}Po, ^{214}Pb, ^{214}Bi, ^{214}Po, ^{210}Pb, ^{210}Bi, ^{210}Po
^{240}U+	^{240m}Np
^{237}Np+	^{233}Pa
^{242m}Am+	^{242}Am
^{243}Am+	^{239}Np

Annex 2 to Cabinet regulations No. 223 of June 20, 1996:
"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Annex 2 to Cabinet regulations No. 223

Standard forms to be used for granting licenses and permits for activities with radioactive substances or other sources of ionizing radiation:

Application forms for licenses / permits - form 1;
License for activities with radioactive substances - form 2;
License for activities with sources of ionizing radiation - form 3;
The Notice application - form 4;
Notice - form 5;
License for import of radioactive substances - form 6;
Permit for import of radioactive substances - form 7;
License for export of radioactive substances - form 8;
The Delivery Verification control Certificate for reception / consignment of radioactive substances - form 9

Form No. 1

		(date of reception)
Name of Competent authority, address, phone No. Fax No		

License / Permit applicant's Control No _____

License / Permit Application

Application No _____

Job Operator

_____ **(Name, surname)** _____ **(position)** _____ **(phone No)**

License / Permit applicant	
	(Name of legal or natural person, Registration No, address, Phone, Fax)

Job Operator's Substitute

_____ **(Name, surname)** _____ **(position)** _____ **(phone No)**

Activities, which the License / Permit is applied for

Brief description of Activities	

Normative document (methods, instructions, regulations) that stipulates aforesaid activities

Radioactive substances and other ionizing radiation sources	

remarks on copies of submitted documents

Work Zone Design 1	Training Certificate 2	Radiation control Plan 3
List of Personnel 4	Inventory of RS/IRS 5	Contract with State Enterprise *RADONS* 6
Personnel Insurance Policy 7	Civil Liability Insurance Policy 8	Physical Protection Verification Certificate 9

License / Permit applicant	
Place for a seal	(Signature and deciphering thereof of Authorized Person, Position)
	(Date)

Instructions for filling out LICENCE / PERMIT APPLICATION

The form is filled out on a computer/typewriter.

1. The row " Applicant's Control No." shall be filled out by declaration applicant, but "Application No." by Competent Institution.
2. The row "Brief description of Activities" shall enlist the core activities referred to Chapter 4 of the present Regulations.
3. The row "Normative Document ..." shall enlist the approved by the enterprise METHODS, INSTRUCTIONS, REGULATIONS that stipulate the aforesaid activities,
4. The row " Radioactive substances/ionizing radiation sources " shall provide information on all radioactive substances, radioactivity thereof exceeding the values indicated in Annex 2. Is shall also provide information on all ionizing radiation sources whose ionizing radiation energy exceeds 5KeV, as well as provide information on cathode ray tubes intended for the display of visual images, which cause, at any point situated at a distance of 0.1m from the accessible surface of the apparatus, a dose rate exceeding 1 $mSv \times h^{-1}$.
5. Remarks shall be made on copies of submitted documents by crossing the respective numbers.
6. Work Zone Design shall contain information on buildings, rooms, working places, security alarm systems, ventilation system, and sewage system.
7. Training Certificate shall include information radiation safety instructions/measures and system of personnel training, including data on professional qualification of personnel.
8. Radiation control plan shall provide information on measurements, volume thereof, controlling places and measuring equipment used, including individual dosimetry.
9. The list of personnel shall provide information on employees according to their occupation groups, educational background and medical examinations.
10. If a license is applied to for import, a copy of Purchase Contract is required, if the said contract stipulates the consignment of used radiation sources back to the country of origin. If this is verified, The specific Customs Duty shall not be imposed.
11. If a license is applied to for export, an Official Notice by the Competent Authority is required to verify that the Consignee of the respective country is authorized to perform activities with radioactive substances, the export thereof planned by Latvian Consignor.

Form No. 2

Name of Competent authority, address, phone No. Fax No

		(Date of Issue)

License
For activities with radioactive substances

Registration No _____

Valid till _____

Herewith	
	(Name of legal or natural person, address)
is granted the permission to undertake the following activities in the respective Work Zones listed below:	

#	Type of Activity	Radionuclide	Amount, Bq	Work Zone

Remarks:

The undersigning Licensee herewith verifies that he/she undertakes the activities with radioactive substances in respective Work Zones prescribed by the License. Licensee shall report immediately about the changes (taken place or intended) in the respective Institution, should the alterations of the License conditions be required.

Licensee		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

License Issuer		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

Form No. 3

Name of Competent authority, address, phone No. Fax No

		(Date of Issue)

License
For activities with Ionizing Radiation Sources

Registration No _____

Valid till _____

Herewith	
	(Name of legal or natural person, address)
is granted the permission to undertake the following activities in the respective Work Zones listed below:	

#	Type of Activity	Radiation Source Type	Dose rate at 1 m distance, mSv	Work Zone

Remarks:

The undersigning Licensee herewith verifies that he/she undertakes the activities with ionizing radiation sources in respective Work Zones prescribed by the License. Licensee shall report immediately about the changes (taken place or intended) in the respective Institution, should the alterations of the License conditions be required.

Licensee		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

License Issuer		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

Form No. 4

		(Date of submission)
		(Registration No.)

Official Notice Request

Herewith I officially request to provide me with an official notice whether license/permit for the following activities with radioactive substances and other ionizing radiation sources enlisted below is required.

radioactive substances and other ionizing radiation sources

#	Type of activity	ionizing radiation sources		radioactive substance	
		Source type	Dose Rate in 1m distance, mSv/h	Radionuclide	Radioactivity, MBq

Planned Use of radioactive substances and other ionizing radiation sources

Planned Work Place

Applicant	
	(Name of legal or natural person (Name, Surname), Registration No (Identity No.), address, Phone, Fax)

Contacting Person	
	(Name, Surname, Phone)

Signature _____

Form No. 5

Official Notice No. _____

Radiation and Nuclear Safety Inspectorate herewith verifies that the analysis of submitted list of planned activities with radioactive substances and other ionizing radiation sources in the Request No._____ by

_____

(Name of legal or natural person (Name, Surname), address)

has been made and Notifies that for the following activities with the said substances and sources the License/permit **is not** required.

(Cross out what is not applicable)

radioactive substances and other ionizing radiation sources

#	Type of activity	ionizing radiation sources		radioactive substance	
		Source type	Dose Rate in 1m distance, mSv/h	Radionuclide	Radioactivity, MBq

Planned Use of radioactive substances and other ionizing radiation sources

Planned Work Place

Authorized Person	
	(Signature and deciphering thereof of Authorized Person, Position)

	(Official Notice Fillout Date)

* Should The license / permit be required, the Application Declaration shall be submitted to Radiation and Nuclear Safety Inspectorate at the following address: Riga, Rupniecibas iela 25, LV-1877, Phone: 7320064, fax: 7243077; Opening Hours: 9^{00} - 17^{00}.

For performing activities without a permit/license one shall be held liable in accordance with the legislative acts of the Republic of Latvia.

Form No. 6

Radiation and Nuclear Safety Inspectorate
Riga, 25 Rupniecibas iela, LV- 1877, Phone: 7320064, Fax: 7243077

		(Date of Issue)

License For Import of Radioactive Substances

Registration No _____

Valid till _____

Herewith	
	(Name of legal or natural person, address)
is granted the permission to import the following radioactive substances indicated below from: **(Name of legal or natural person, Registration No. (Identity Code), address, Phone, Fax)**	

#	The HS Code of Goods	Radionuclide	Amount (Bq)	Means of Transportation

Remarks:
The undersigning licensee herewith verifies, that he/she undertakes the import activities of radioactive substances in respective amounts stipulated by the License. Licensee shall report immediately about the changes (taken place or intended), should the alterations of the License conditions be required. Licensee shall submit the report on actually received amount of radioactive substances within 21 days after each quarter of the calendar year.

Licensee		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

License Issuer		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

By granting import license, Radiation and Nuclear Safety Inspectorate shall supervise the declared planned use of the said substances.

Form No. 7

Radiation and Nuclear Safety Inspectorate
Riga, 25 Rupniecibas iela, LV- 1877, Phone: 7320064, Fax: 7243077

		(Date of Issue)

Permit
For Import of Radioactive Substances

Registration No _____

Valid till _____

Herewith	
	(Name of legal or natural person, address)
is granted the permission to import the following radioactive substances indicated below from: **(Name of Exporting Organization, address, Phone, Fax)**	

#	The HS Code of Goods	Radionuclide	Amount (Bq)	Means of Transportation

Remarks:
The undersigning licensee herewith verifies, that he/she undertakes the import activities of radioactive substances in respective amounts stipulated by the Permit. Licensee shall report immediately about the changes (taken place or intended), should the alterations of the License conditions be required. Licensee shall submit the Delivery Verification Certificate of radioactive substances to RNSI immediately after reception of the said substances.

Licensee		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

Permit Issuer		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

By granting The Permit for import of radioactive substances, Radiation and Nuclear Safety Inspectorate shall supervise the declared planned use of the said substances.

Form No. 8

Radiation and Nuclear Safety Inspectorate
Riga, 25 Rupniecibas iela, LV- 1877, Phone: 7320064, Fax: 7243077

		(Date of Issue)

License For Export of Radioactive Substances

Registration No _____

Valid till _____

Herewith	
	(Name of legal or natural person, address)
is granted the permission to export the following radioactive substances indicated below from: **(Name of Exporting Organization, address, Phone, Fax)**	

#	The HS Code of Goods	Radionuclide	Amount (Bq)	Means of Transportation

Remarks:

The undersigning licensee herewith verifies, that he/she undertakes the export activities of radioactive substances in respective amounts stipulated by the License. Licensee shall report immediately about the changes (taken place or intended), should the alterations of the License conditions be required. Licensee shall submit the report on actually shipped amount of radioactive substances within 21 days after each quarter of the calendar year.

Licensee		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

Licence Issuer		
(Signature and deciphering thereof of Authorized Person, Position)		(Date)

Form No. 9

Radiation and Nuclear Safety Inspectorate
Riga, 25 Rupniecibas iela, LV- 1877, Phone: 7320064, Fax: 7243077

Applicant's Control No	**Delivery Verification Certificate**	Licence Registration No
Date of Submission	of Radioactive Substances	Registration No

Importer	**Exporter**
(Name of legal or natural person, address)	**(Name of Enterprise, Institution)**
(address)	**(address)**
(Phone, Fax)	**(Phone, Fax)**
(Registration No.)	**(Registration No.)**

#	The HS Code of Goods	Radionuclide	Amount (Bq)	Means of Transportation

Remarks:
By submitting Delivery Verification Certificate, the undersigning license holder herewith verifies, that the aforementioned radioactive substances are shipped/received in respective amounts stipulated by the License. Therefore License holder requests Radiation and Nuclear Safety Inspectorate to verify the transfer of liability for aforesaid radioactive substances to a Consignee with the moment of reception of application.

Applicant		
(Signature and deciphering thereof of Authorized Person, Position)		**(Date)**

By approving the present Certificate, Radiation and Nuclear Safety Inspectorate confirms that necessary inspection was carried out on conveyance of radioactive substances to a Consignee.

(Signature of certificate receiver / Signature of Authorized RNSI Person, Position)		**(Date)**

Annex 3 to Cabinet regulations No. 223 of June 20, 1996:
"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Annex 3 to Cabinet regulations No. 223

The Amount of State Duty for License or Permit for Activities with Radioactive Substances and Other Ionizing Radiation Sources

Figure 1

Group of Objects Name Na	Radiation Sources	State Duty, Ls
Ionizing Radiation Sources of State Significance	1) Nuclear Reactor of Latvian Academy of Science Nuclear Research Center 2) Radioactive waste disposal at State Enterprise 'Radons'	100
High Dose Rate Radiation Sources: activity ≥ 10 Tbq; dose rate ≥ 10 Sv	1) radiation facilities in science, 2) radiation facilities in medicine, 3) electron or other particle accelerators	80
Moderate Dose Rate Radiation Sources: activity 10 Gbq - 10 Tbq; dose rate 0.1 - 10 Sv	1) Fault detectors, 2) industrial nuclear gauges, 3) high dose rate x-ray equipment	60
Other radiation sources: activity <10 Gbq, except for smoke detectors with Pu^{239}; dose rate < 0.1 Sv	1) industrial nuclear gauges, 2) medical x-ray equipment , 3) use of radionuclides in medicine and science	40

Figure 2

Type of activities	Activity samples	State Duty, Ls
Export/import of radioactive substances and other ionizing radiation sources	Export/import transactions on a regular basis in Trading	50
	Import for the needs of an Institution	10
Storage of radiation sources	1) Radioactive sources storage site at State Enterprise 'Radons' 2) Specialized Customs warehouse	50
Installation, maintenance and service of radiation facilities	1) Installation and technical maintenance of Radioisotopic facilities, 2) Installation and maintenance of Fire alarm security system using radioisotopic smoke detectors with Pu^{239}	50
Use of smoke detectors	Use of Fire alarm security system using radioisotopic smoke detectors with Pu^{239}	10
Production / manufacturing of radioactive substances and other ionizing radiation sources	Producing with an aim to trade	50

Annex 4 to Cabinet regulations No. 223 of June 20, 1996:
"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Annex 4 to Cabinet regulations No. 223

Duty for import of radioactive substances in The Republic of Latvia

Radiotoxicity (Annex 5)	Radioactive substance in unsealed form, 1 Ls per 1 MBq	Sealed source of radiation, 1 Ls per 1 GBq	
		activity < 10TBq	activity > 10TBq
Very high radiotoxicity	80	40	8
High radiotoxicity	40	30	6
Moderate radiotoxicity	20	20	4
Low radiotoxicity	10	10	2

Annex 5 to Cabinet regulations No. 223 of June 20, 1996:

"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Annex 5 to Cabinet regulations No. 223

Minimum Amount of Insurance against the Third Party Liability

Group of Objects	Description of potential radiological hazard	Radiation Sources	Minimum Insurance amount, Ls
1	2	3	4
Ionizing Radiation Sources of State Importance	1) Dangerous for human health and life, 2) potential environmental pollution, 3) real estate and movables endangered	1) Nuclear Reactor of Latvian Academy of Science Nuclear Research Center 2) Radioactive waste disposal at State Enterprise 'Radons'	1.000.000
High Dose Rate Radiation Sources: activity ≥ 10 Tbq; dose rate ≥ 10 Sv	1) Dangerous for human health and life, 2) small probability of environmental pollution and property hazard, 3) large expenditures for termination of accident consequences	1) radiation facilities in science, 2) radiation facilities in medicine, 3) electron accelerators	100.000
Moderate Dose Rate Radiation Sources: activity 10 Gbq - 10 Tbq; dose rate 0.1 - 10 Sv	1) Dangerous for human health, 2) small probability of environmental pollution and property hazard, 3) moderate expenditures for termination of accident consequences	1) Fault detectors 2) industrial nuclear gauges, 3) high dose rate x-ray equipment	10.000
Other radiation sources: activity <10 Gbq	1) small probability of environmental pollution and property hazard, 2) small expenditures for termination of accident consequences	1) industrial nuclear gauges, 2) medical x-ray equipment , 3) use of radionuclides in medicine and science, 4) radioisotopic smoke detectors	1.000

Annex 6 to Cabinet Regulations No. 223 of June 20, 1996:
"On Issuance of Licenses and permits for Practices With Radioactive Substances and Other Ionizing Radiation Sources"

Classification of Radionuclides according to their Radiotoxicity

Very High radiotoxicity (group 1)

^{148}Gd	^{210}Pb	^{210}Po	^{223}Ra	^{225}Ra	^{226}Ra	^{228}Ra	^{225}Ac	^{227}Ac	^{227}Th
^{228}Th	^{229}Th	^{230}Th	^{231}Pa	^{230}U	^{232}U	^{233}U	^{234}U	^{236}Np	^{237}Np
^{236}Pu	^{238}Pu	^{239}Pu	^{240}Pu	^{241}Pu	^{242}Pu	^{241}Am	^{242m}Am	^{243}Am	^{240}Cm
^{242}Cm	^{243}Cm	^{244}Cm	^{245}Cm	^{246}Cm	^{247}Cm	^{248}Cm	^{247}Bk	^{248}Cf	^{249}Cf
^{250}Cf	^{251}Cf	^{252}Cf	^{254}Cf	^{254}Es	^{257}Fm	^{258}Md			

High radiotoxicity (group 2)

^{10}Be	^{26}Al	^{32}Si	^{44}Ti	^{60}Fe	^{60}Co	^{68}Ge	^{90}Sr	^{91}Y	^{93}Zr
^{94}Nb	^{106}Ru	^{102m}Rh	^{102}Rh	^{108m}Ag	^{110m}Ag	^{109}Cd	^{113m}Cd	^{115m}Cd	^{114m}In
^{126}Sn	^{124}I	^{125}I	^{126}I	^{131}I	^{134}Cs	^{137}La	^{144}Ce	^{144}Pm	^{146}Pm
^{146}Sm	^{151}Sm	^{150}Eu	^{152}Eu	^{154}Eu	^{155}Eu	^{158}Tb	^{166m}Ho	^{174}Lu	^{177m}Lu
^{172}Hf	^{178m}Hf	^{182}Hf	^{194}Os	^{192m}Ir	^{194m}Ir	^{194}Hg	^{202}Pb	^{212}Pb	^{210m}Bi
^{210}Bi	^{211}At	^{224}Ra	^{224}Ac	^{226}Ac	^{228}Ac	^{232}Th	Th dab.	^{227}Pa	^{228}Pa
^{230}Pa	^{232}Pa	^{236}U	^{236}Np	^{238}Np	^{244}Pu	^{242}Am	^{241}Cm	^{249}Bk	^{246}Cf
^{253}Cf	^{253}Es	^{254m}Es	^{252}Fm	^{253}Fm	^{254}Fm	^{255}Fm	^{257}Md		

Moderate radiotoxicity (group3)

^{14}C	^{22}Na	^{24}Na	^{28}Mg	^{32}P	^{33}P	^{36}Cl	^{41}Ar	^{42}K	^{43}K
^{45}Ca	^{47}Ca	^{44m}Sc	^{44}Sc	^{46}Sc	^{47}Sc	^{48}Sc	^{48}V	^{48}Cr	^{52}Mn
^{54}Mn	^{52}Fe	^{55}Fe	^{59}Fe	^{55}Co	^{56}Co	^{57}Co	^{58}Co	^{56}Ni	^{57}Ni
^{63}Ni	^{66}Ni	^{67}Cu	^{62}Zn	^{65}Zn	^{69m}Zn	^{72}Zn	^{66}Ga	^{67}Ga	^{72}Ga
^{69}Ge	^{77}Ge	^{71}As	^{72}As	^{73}As	^{74}As	^{76}As	^{77}As	^{73}Se	^{75}Se
^{79}Se	^{76}Br	^{82}Br	^{74}Kr	^{77}Kr	^{87}Kr	^{88}Kr	^{83}Rb	^{84}Rb	^{86}Rb
^{83}Sr	^{85}Sr	^{89}Sr	^{91}Sr	^{92}Sr	^{86}Y	^{87}Y	^{88}Y	^{90m}Y	^{90}Y
^{92}Y	^{93}Y	^{86}Zr	^{88}Zr	^{89}Zr	^{95}Zr	^{97}Zr	^{90}Nb	^{93m}Nb	^{95}Nb
^{95m}Nb	^{96}Nb	^{90}Mo	^{93}Mo	^{99}Mo	^{96}Tc	^{97m}Tc	^{97}Ru	^{103}Ru	^{105}Ru
^{99}Rh	^{100}Rh	^{101m}Rh	^{101}Rh	^{105}Rh	^{100}Pd	^{103}Pd	^{109}Pd	^{105}Ag	^{106m}Ag
^{111}Ag	^{112}Ag	^{115}Cd	^{117}Cd	^{111}In	^{110}Sn	^{113}Sn	^{117m}Sn	^{119m}Sn	^{121m}Sn
^{121}Sn	^{123}Sn	^{125}Sn	^{120}Sb	^{122}Sb	^{121}Sb	^{125}Sb	^{126}Sb	^{127}Sb	^{128}Sb
^{129}Sb	^{121}Te	^{121m}Te	^{123m}Te	^{125m}Te	^{127m}Te	^{129m}Te	^{131}Te	^{131m}Te	^{132}Te
^{133m}Te	^{120}I	^{123}I	^{130}I	^{132}I	^{132m}I	^{133}I	^{135}I	^{121}Xe	^{123}Xe
^{138}Xe	^{132}Cs	^{136}Cs	^{137}Cs	^{128}Ba	^{131}Ba	^{133m}Ba	^{133}Ba	^{135m}Ba	^{140}Ba
^{132}La	^{140}La	^{141}La	^{134}Ce	^{135}Ce	^{137m}Ce	^{139}Ce	^{141}Ce	^{143}Ce	^{142}Pr
^{143}Pr	^{145}Pr	^{138}Nd	^{147}Nd	^{143}Pm	^{145}Pm	^{147}Pm	^{148m}Pm	^{148}Pm	^{149}Pm
^{151}Pm	^{145}Sm	^{153}Sm	^{156}Sm	^{145}Eu	^{146}Eu	^{147}Eu	^{148}Eu	^{149}Eu	^{150}Eu
^{152m}Eu	^{156}Eu	^{157}Eu	^{146}Gd	^{147}Gd	^{149}Gd	^{151}Gd	^{153}Gd	^{159}Gd	^{149}Tb
^{151}Tb	^{153}Tb	^{154}Tb	^{155}Tb	^{156m}Tb	^{156}Tb	^{157}Tb	^{161}Tb	^{159}Dy	^{166}Dy
^{166}Ho	^{169}Er	^{171}Er	^{172}Er	^{167}Tm	^{170}Tm	^{171}Tm	^{172}Tm	^{173}Tm	^{166}Yb
^{169}Yb	^{175}Yb	^{169}Lu	^{171}Lu	^{172}Lu	^{173}Lu	^{174m}Lu	^{177}Lu	^{170}Hf	^{173}Hf
^{175}Hf	^{179m}Hf	^{181}Hf	^{184}Hf	^{176}Ta	^{179}Ta	^{183}Ta	^{184}Ta	^{185}W	^{187}W
^{188}W	^{181}Re	^{182}Re	^{184m}Re	^{184}Re	^{186}Re	^{188}Re	^{189}Re	^{182}Os	^{185}Os
^{191}Os	^{193}Os	^{185}Ir	^{186}Ir	^{188}Ir	^{189}Ir	^{190}Ir	^{192}Ir	^{194}Ir	^{188}Pt
^{191}Pt	^{193m}Pt	^{195m}Pt	^{197}Pt	^{200}Pt	^{194}Au	^{195}Au	^{198m}Au	^{198}Au	^{199}Au
^{200m}Au	^{193m}Hg	^{195m}Hg	^{197m}Hg	^{197}Hg	^{203}Hg	^{200}Tl	^{202}Tl	^{204}Tl	^{200}Pb
^{203}Pb	^{211}Pb	^{214}Pb	^{205}Bi	^{206}Bi	^{207}Bi	^{212}Bi	^{213}Bi	^{214}Bi	^{207}At
^{222}Rn	^{222}Fr	^{223}Fr	^{226}Th	^{231}Th	^{234}Th	^{233}Pa	^{234}Pa	^{231}U	^{237}U
^{240}U	^{232}Np	^{234}Np	^{235}Np	^{239}Np	^{234}Pu	^{237}Pu	^{245}Pu	^{238}Am	^{240}Am
^{244m}Am	^{244}Am	^{238}Cm	^{245}Bk	^{246}Bk	^{250}Bk	^{244}Cf	^{250}Es	^{251}Es	

Low radiotoxicity (group 4)

^{3}H	^{7}Be	^{11}C	^{18}F	^{31}Si	^{35}S	^{38}Cl	^{39}Cl	^{37}Ar	^{39}Ar
^{40}K	^{44}K	^{45}K	^{41}Ca	^{43}Sc	^{49}Sc	^{45}Ti	^{47}V	^{49}V	^{49}Cr
^{51}Cr	^{51}Mn	^{52m}Mn	^{53}Mn	^{56}Mn	^{58m}Co	^{60m}Co	^{61}Co	^{62m}Co	^{59}Ni
^{65}Ni	^{60}Cu	^{61}Cu	^{64}Cu	^{63}Zn	^{69}Zn	^{71m}Zn	^{65}Ga	^{68}Ga	^{70}Ga
^{73}Ga	^{66}Ge	^{67}Ge	^{71}Ge	^{75}Ge	^{78}Ge	^{69}As	^{70}As	^{78}As	^{70}Se
^{73m}Se	^{81m}Se	^{81}Se	^{83}Se	^{74m}Br	^{74}Br	^{75}Br	^{77}Br	^{80m}Br	^{80}Br
^{83}Br	^{84}Br	^{76}Kr	^{79}Kr	^{81}Kr	^{83m}Kr	^{85m}Kr	^{85}Kr	^{79}Rb	^{81m}Rb
^{81}Rb	^{82m}Rb	^{87}Rb	^{88}Rb	^{89}Rb	^{80}Sr	^{81}Sr	^{85m}Sr	^{87m}Sr	^{86m}Y
^{91m}Y	^{94}Y	^{95}Y	^{88}Nb	^{89}Nb	^{97}Nb	^{98}Nb	^{93m}Mo	^{107}Mo	^{93m}Tc
^{93}Tc	^{94m}Tc	^{94}Tc	^{96m}Tc	^{97}Tc	^{98}Tc	^{99m}Tc	^{99}Tc	^{101}Tc	^{104}Tc
^{94}Ru	^{99m}Rh	^{103m}Rh	^{106m}Rh	^{107}Rh	^{101}Pd	^{107}Pd	^{102}Ag	^{103}Ag	^{104m}Ag
^{104}Ag	^{106}Ag	^{115}Ag	^{104}Cd	^{107}Cd	^{113}Cd	^{117m}Cd	^{109}In	^{110}In	^{112}In
^{113m}In	^{115m}In	^{115}In	^{116m}In	^{117m}In	^{117}In	^{119m}In	^{111}Sn	^{123m}Sn	^{127}Sn
^{128}Sn	^{115}Sb	^{116m}Sb	^{116}Sb	^{117}Sb	^{118m}Sb	^{119}Sb	^{120}Sb	^{124m}Sb	^{126m}Sb
^{128}Sb	^{130}Sb	^{131}Sb	^{116}Te	^{123}Te	^{127}Te	^{129}Te	^{133}Te	^{134}Te	^{120m}I
^{121}I	^{128}I	^{129}I	^{134}I	^{120}Xe	^{122}Xe	^{125}Xe	^{127}Xe	^{129m}Xe	^{131m}Xe
^{133m}Xe	^{133}Xe	^{135m}Xe	^{135}Xe	^{125}Cs	^{127}Cs	^{129}Cs	^{130}Cs	^{131}Cs	^{134m}Cs
^{135m}Cs	^{135}Cs	^{138}Cs	^{126}Ba	^{131m}Ba	^{139}Ba	^{141}Ba	^{142}Ba	^{131}La	^{135}La
^{138}La	^{142}La	^{143}La	^{137}Ce	^{136}Pr	^{137}Pr	^{138m}Pr	^{139}Pr	^{142m}Pr	^{144}Pr
^{147}Pr	^{136}Nd	^{139m}Nd	^{139}Nd	^{141}Nd	^{149}Nd	^{151}Nd	^{141}Pm	^{150}Pm	^{141m}Sm
^{141}Sm	^{142}Sm	^{147}Sm	^{152}Sm	^{158}Eu	^{145}Gd	^{152}Gd	^{147}Tb	^{150}Tb	^{156m}Tb
^{155}Dy	^{157}Dy	^{165}Dy	^{155}Ho	^{157}Ho	^{159}Ho	^{161}Ho	^{162m}Ho	^{162}Ho	^{164m}Ho
^{164}Ho	^{167}Ho	^{161}Er	^{165}Er	^{162}Tm	^{166}Tm	^{175}Tm	^{162}Yb	^{167}Yb	^{177}Yb
^{178}Yb	^{176m}Lu	^{176}Lu	^{178m}Lu	^{178}Lu	^{179}Lu	^{177m}Hf	^{180m}Hf	^{182m}Hf	^{183}Hf
^{172}Ta	^{173}Ta	^{174}Ta	^{175}Ta	^{177}Ta	^{178}Ta	^{180m}Ta	^{180}Ta	^{182m}Ta	^{185}Ta
^{186}Ta	^{176}W	^{177}W	^{178}W	^{179}W	^{181}W	^{177}Re	^{178}Re	^{182}Re	^{186m}Re
^{187}Re	^{188m}Re	^{180}Os	^{181}Os	^{189m}Os	^{191m}Os	^{182}Ir	^{184}Ir	^{187}Ir	^{190m}Ir
^{195m}Ir	^{195}Ir	^{186}Pt	^{189}Pt	^{193}Pt	^{197m}Pt	^{199}Pt	^{193}Au	^{200}Au	^{201}Au
^{193}Hg	^{195}Hg	^{199m}Hg	^{194m}Tl	^{194}Tl	^{195}Tl	^{197}Tl	^{198m}Tl	^{198}Tl	^{199}Tl
^{201}Tl	^{195m}Pb	^{198}Pb	^{199}Pb	^{201}Pb	^{202m}Pb	^{205}Pb	^{209}Pb	^{200}Bi	^{201}Bi
^{202}Bi	^{203}Po	^{205}Po	^{207}Po	^{220}Rn	^{227}Ra	^{235}U	^{238}U	^{239}U	U dab.
U depl.	^{233}Np	^{240}Np	^{235}Pu	^{243}Pu	^{237}Am	^{239}Am	^{245}Am	^{246m}Am	^{246}Am
^{249}Cm									