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Republic of Latvia

Cabinet Regulation No 152 Adopted 8 April 2003

Requirements for Preparedness for Radiological Emergency and Actions in the Event of Such Emergency

Issued pursuant to Section 9, Paragraph four, Clause 2 of the Law On Radiation Safety and Nuclear Safety

1. General Provisions

1. These Regulations determine the requirements for preparedness for a radiological emergency and actions in the event of such emergency.

2. These Regulations apply to the following possible types of radiological emergency:

2.1. nuclear accident – an event related to a nuclear reactor or of another nuclearfuel- cycle facility, transport or storage of nuclear fuel which results in the exceeding of the ionising radiation dose limit specified by regulatory enactments as regards employees or residents (hereinafter – ionising radiation dose limits) and damage or damage hazard regardless of protection measures for reduction of damage (hereinafter – protection measures);

2.2. emergency - an event related to the production, usage, storage, disposal or transport of ionising radiation sources intended for agriculture, manufacturing, medicine, scientific research or generation of energy in space objects, which results in the exceeding of the ionising radiation dose limit and damage or hazard regardless of protection measures, or the level of ionising radiation exceeds the rates specified in Paragraph 3 of these Regulations;

2.3. accident – release or spread of radioactive substances that causes radioactive pollution in an object, exceeding the permissible amount of radionuclides specified by regulatory enactments that may be spread into the environment within one year (hereinafter – significant release or spread of radioactive substances), but not exceeding the rates specified in Paragraph 3 of these Regulations;

2.4. incident – an event related to the release or spread of radioactive substances that causes radioactive pollution in an object, but does not create a significant release or spread of radioactive substances.

3. In the event of an emergency, the following is being exceeded:

3.1. specific radioactivity in water intended for consumption:

3.1.1. for tritium -1 kBq/l;

3.1.2. for isotope 90 Sr – 0,6 Bq/l;

3.1.3. for isotope ${}^{137}Cs - 1$ Bq/l;

3.2. specific radioactivity of water in rivers and lakes:

3.2.1. total beta radioactivity recalculated for isotope 90 Sr – 6 Bq/l; and

3.2.2. for isotope 137 Cs – 10 Bq/l;

3.3. the level of radioactive substances in the air:

3.3.1. for isotope ${}^{131}I - 55 \text{ Bq/m}^3$; 3.3.2. for isotope ${}^{90}I - 0.05 \text{ Bq/m}^3$; and

3.3.3. for isotope ${}^{137}Cs - 0.3 Bq/m^3$;

3.4. specific radioactivity in food products (larger than the permissible amount of radionuclides specified by regulatory enactments).

4. Radiological emergency damage is:

4.1. damage to human health (also death of a human being);

4.2. damage to or loss of property;

4.3. economic losses caused by damage to human health (also death of a human being), damage to or loss of property;

4.4. costs of environmental recovery if the state of the environment has substantially deteriorated;

4.5. loss of the income acquired from the utilisation of the environment for economic interests, which has occurred due to the substantial environment deterioration; or

4.6. costs of protection measures and the losses or damages caused thereby.

5. An operator and institutions responsible for protection measures shall develop a plan of civil protection measures co-ordinated with the National Civil Protection Plan for preparedness to radiological emergencies and actions in the event of radiological emergency (hereinafter – plan of action) in an object which might cause radiological emergency damage (hereinafter - object). Protection measures regarding residents who may be under threat of radiological emergency shall be provided for in the plan of action.

6. An object shall be:

6.1. an installation, a room or the complex thereof in the area controlled by an operator where the activities with ionising radiation sources the total radioactivity of which exceeds the substantial amount of radioactive substances specified in Annex 1 of these Regulations are performed; or

6.2. a vehicle, by which ionising radiation sources the total radioactivity of which exceeds the substantial amount of radioactive substances specified in Annex 1 of these Regulations are transported.

7. The plan of action shall provide for protection measures in order to:

7.1. reduce the possibility of the occurrence of a radiological emergency and emergency consequences;

7.2. eliminate or reduce immediate radiological emergency damage to a minimum (damage caused by an intensive exposure to radiation or the exposure to radiation that has not been longer than five days if the ionising radiation dose to the whole body has been 500 mSv and more per one instance of radiation); and

7.3. reduce the possibility of post- radiological emergency damage occurring (the possibility of the occurrence of the damage is proportional to the received dose of ionising radiation, the severity of damage does not depend on the amount of the received ionising radiation dose).

8. An operator shall co-ordinate his or her plan of action with:

8.1. the Radiation Safety Centre (hereinafter – Centre);

8.2. the local government if the total radioactivity of radioactive substances in the area controlled by the operator complies with or is larger than the rates specified in Annex 1 of these Regulations;

8.3. the State Fire-Fighting and Rescue Service (hereinafter – Rescue Service) if the consequences of radiological emergency might affect residents and the environment outside the area controlled by the operator.

9. Republic city and district structural units of the Rescue Service in co-operation with local governments shall analyse the hazard of the possible radiological emergency and develop a plan of civil protection measures in the relevant administrative territory.

2. Provision of Information

2.1. Prior Information of Residents

10. The Rescue Service in co-operation with the Centre shall once in every three years inform residents who might be under threat of radiological emergency regarding the health protection measures and actions in the event of radiological emergency by using mass media. The following issues shall be included in the information:

10.1. ionising radiation and the effect thereof on residents and the environment;

10.2. types of radiological emergencies, possible affect of the emergency aftermath on residents and the environment;

10.3. protection measures and methods for the implementation thereof;

10.4. actions of residents in the event of a radiological emergency (also iodine prophylactics), as well as possibilities for the receipt and purchase of iodine preparations;

10.5. competent authorities and commercial companies that are able to provide information regarding radiation safety.

11. The Rescue Service in co-operation with the Centre shall specify, supplement and distribute the information referred to in Paragraph 10 of these Regulations if there are substantial changes in the content of the previously provided information.

12. A work supervisor authorised by an operator for the work with ionising radiation sources (hereinafter – work supervisor) shall inform the relevant State and local government institutions and residents who might be under threat of radiological emergency regarding the possibility of radiological emergency and the necessary protection measures.

2.2. Warning of Residents in the Event of a Radiological Emergency

13. The Rescue Service shall notify and warn residents in the event of a radiological emergency by using the mass media and the notification and alarm system.

14. Upon the recommendation of the Centre, the Rescue Service shall immediately provide the following information to the residents who have suffered in the radiological emergency:

14.1. the type, cause (if possible), scale and possible expansion of the radiological emergency that has taken place;

14.2. protection measures recommended to residents (depending on the type of radiological emergency):

14.2.1. restrictions regarding the use of definite food products if there are suspicions regarding the pollution thereof with radioactive substances;

14.2.2. observance of hygiene rules, as well as decontamination – removal of radioactive substances in order to reduce radioactive pollution on surfaces of all types, in bodies of residents, in materials, environmental objects, food products, animal fodder and drinking water;

14.2.3. provision with food products and animal fodder not polluted with radiation in accordance with the relevant norms;

14.2.4. staying inside and in civil protection protective structures (hereinafter – protective structures);

14.2.5. evacuation;

14.2.6. dispensation and use or purchase of protective substances;

14.2.7. establishment of stations for the provision of veterinary assistance to livestock;

14.2.8. restrictions of livestock pasture and procedures for movement;

14.3. additional protective measures for specific resident groups (if required).

15. The Rescue Service shall provide the following information to residents who may be under threat of radiological emergency:

15.1. instructions to keep radiobroadcast receivers and television sets switched on;

15.2. general instructions regarding the actions in the event of radiological emergency;

15.3. additional recommendations.

and

16. After the receipt of information regarding the possible radiological emergency the Rescue Service shall supplement the information referred to in Paragraph 15 of these Regulations with the previously prepared information regarding the possible radiological emergency impact on residents and the environment, as well as regarding general radiation safety measures.

2.3. Preliminary Provision of Information to Institutions and Commercial Companies Involved in the Performance of Protection Measures

17. Taking into account the character and scale of the possible radiological emergency, each year the Rescue Service in co-operation with the Centre shall provide information regarding the possible impact of ionising radiation on residents and the environment and radiation protection measures to managers and employees of such institutions and commercial companies that may be involved in the organisation and performance of protection measures in the event of a radiological emergency.

18. If a radiological emergency has occurred, information regarding the protection measures shall be supplemented accordingly, taking into account the specific conditions.

2.4. International Notification

19. If a nuclear accident or an emergency has occurred and a decision to perform wide protection measures which involve more than 100 residents (hereinafter – wide protection measures) has been taken, the Centre shall immediately provide information regarding the

protection measures and justification for the necessity thereof to the International Atomic Energy Agency and the European Commission, as well as the other countries which are affected or may be affected by the consequences of a nuclear accident or emergency which has taken place in the territory of Latvia and the possible protection measures (hereinafter – involved countries).

20. If a nuclear accident or an emergency has occurred and a decision regarding the performance of protection measures has been taken or prepared on the basis of the information provided by an operator, the International Atomic Energy Agency, the European Commission or any other country regarding the possible nuclear accident or emergency which may have an impact on Latvia, the Centre shall provide the information regarding the possible performance of wide protection measures to the International Atomic Energy Agency, the European Commission and the involved countries.

21. The Centre shall provide the following information to the International Atomic Energy Agency, the European Commission and the involved countries:

21.1. the nature, time and exact location of the nuclear accident or emergency;

21.2. the object or activity which has caused the nuclear accident or emergency;

21.3. the possible or determined cause of the nuclear accident or emergency and the anticipated development that is related to the release or spread of radioactive substances and the possible spread of radioactive pollution outside of Latvia;

21.4. general description of the release or spread of radioactive substances, the possible physical and chemical form thereof, the amount, composition and effective height of radioactive spread of radioactive substances which have reached the environment; and

21.5. the present and foreseeable meteorological and hydrological conditions which impact on the spreading of the radioactive pollution.

22. After obtaining the relevant data in addition to the information specified in Paragraph 21 of these Regulations the Centre shall provide the International Atomic Energy Agency, the European Commission and involved countries with the following information:

22.1. results of the environment radiation monitoring;

22.2. measurement results regarding radioactivity in food products, animal fodder and drinking water;

22.3. the performed or planned protection measures;

22.4. the performed or planned measures for the informing of residents;

22.5. a forecast regarding the nature of the release or spread of the radioactive substance for a specified period of time.

23. During the liquidation of the radiological emergency the Centre shall update and supplement the information specified in Paragraphs 21 and 22 of these Regulations with data regarding the expansion of the nuclear accident or emergency, the anticipated and actual termination thereof. The referred to data shall be forwarded at regular intervals so that the relevant organisations and other countries can perform the necessary protection measures. During the time period of the liquidation of the consequences of the nuclear accident or emergency the referred to information shall be provided once a month or less often upon agreement with the recipients of the information.



3. Planning of Protection Measures

24. The possible protection measures of the following types to be initiated:

24.1. the emergency protection measures that shall be performed immediately after the receipt of information regarding the radiological emergency that has occurred or the inevitable hazard thereof in order to avert or reduce the immediate damage from the radiological emergency;

24.2. long-term protection measures which shall be performed after the radiological emergency in order to reduce post-radiological emergency damage .

25. Protection measures shall be planned for the following areas:

25.1. the object;

25.2. the area of emergency protection measures - the territory around the object, where it is planned to perform the emergency protection measures;

25.3. long-term protection measures for the area – territory around the object (also the area of emergency protection measures) wherein early effective protection measures are ensured in order to reduce ionising radiation doses from the radioactive deposits, radiation-polluted food products and drinking water.

26. The operator shall evaluate the largest possible radiological emergency damage in the object and, taking into account natural boundaries (for example, breaks in the relief of the land, bodies of water), the Centre shall determine the boundaries of the protection measure areas after co-ordination with the Rescue Service.

27. In planning protection measures, the operator, the local government, in the territory of which the relevant object is located, and the Rescue Service shall:

27.1. evaluate the necessary protection measure possibilities, efficiency and costs of the relevant protection measure, including operational monitoring;

27.2. plan the protection measures so that:

27.2.1. the radiological emergency damage would be as small as possible;

27.2.2. the damage to the environment and property caused by protection measures, as well as the burden for the residents who have suffered in radiological emergency would be as small as possible; and

27.2.3. the total dose of ionising radiation received by the residents who have suffered in the radiological emergency and workers performing protection measures would be minimal in comparison to the total dose of ionising radiation received by the residents who have suffered in radiological emergency if the relevant protection measures are not performed;

27.3. evaluate the type, scale and duration of the protection measures corresponding to the possible damage.

28. An operator, and the local government, in the territory of which the relevant object is located, and the Rescue Service shall plan the following protection measures in the event of a radiological emergency:

28.1. iodine prophylactics;

28.2. staying indoors and in protective structures;

28.3. evacuation;

28.4. decontamination;

28.5. rescue of residents who have suffered in the radiological emergency and the provision of emergency medical assistance;

28.6. control of food products and drinking water and restrictions for the use of radiation-polluted food products and drinking water;

28.7. protection of livestock from radioactive pollution;

28.8. demarcating of the radiological emergency area or area polluted by the radiation created thereby as a restricted area in order to reduce the spreading of radioactive substances and to control the movement of residents to or from the radiation-polluted territory;

28.9. protection of the local water supply and drainage systems;

28.10. prevention and extinguishing of fires;

28.11. control of the irradiation of residents who have suffered in a radiological emergency;

28.12. registration and control of radioactive pollution of the environment;

28.13. re-packaging of radioactive materials from packages damaged in a vehicle during a radiological emergency;

28.14. packaging and conveying of radioactive waste to an undertaking (commercial company) dealing with the disposal or management of radioactive waste;

28.15. registration of the irradiation of workers involved in the liquidation of the consequences of the radiological emergency and radioactive pollution and other protection measures; and

28.16. organisation of protection measures for residents who have suffered in a radiological emergency.

29. If after the performance of the protection measures referred to in Paragraph 28 of these Regulations radioactive pollution is still possible in the radiological emergency area , an operator, the local government in the territory of which the relevant object is located and the Rescue Service shall plan the following supplementary measures:

29.1. decontamination of the territory;

29.2. control of radioactive pollution in food products, animal fodder and environmental objects;

29.3. long-term monitoring and health rehabilitation of the workers who have suffered in the radiological emergency and who have been involved in the elimination of the consequences of the radiological emergency.

30. The ionising radiation doses or dose rates specified in these Regulations shall be used for residents as recommendations as regards pregnant women and children, but protection measures should be planned and performed so that the doses received by pregnant women and children would be a small as possible.

4. Protection Measures in the Event of Radiological Emergency

4.1. Iodine Prophylactics

31. Iodine prophylactics shall be performed shortly before the possible release or spread of radioactive substances from the object into the environment or immediately thereafter, in order to reduce the harmful effect of ionising radiation on the health of those residents who may be under the threat of a radiological emergency and on the health of the residents who have suffered in a radiological emergency. Iodine preparations (potassium iodide tablets, 5 % potassium iodide solution) shall be used, taking into account recommendation of the Centre, upon the instruction of the Rescue Service in accordance with the attached instruction regarding the use of iodine preparations.

32. Iodine preparations shall be distributed to the residents who live in the area of emergency protection measures (also around the object where the release or spread of radioactive iodine is possible in the event of radiological emergency for individual storage and, when required, for use, but iodine preparations provided for residents of an area of long-term protection measures shall be stored in State material stocks. The Rescue Service shall control the renewal and supplementation of the stocks.

33. Iodine prophylactics shall be performed:

33.1. taking into account the recommendation of the Centre, according to a decision of the Rescue Service, if:

33.1.1. a notification regarding the actual or possible radiological emergency due to which the possible radioactive iodine concentration in the air in the territory of the Republic of Latvia during the following six hours may create in a thyroid gland of an adult resident an ionising radiation dose that is larger than 500 mSv during the following ten days , and there is information that the substantial reduction of release or spread of radioactive substances from the nuclear installations involved in the accident cannot be achieved;

33.1.2. a cloud of radioactive dust (spray) is detected in a specific part of the territory of the Republic of Latvia the ionising radiation dose of which is larger than:

33.1.2.1. 0,1 mSv/h if the release or spread of radioactive substances is not being reduced;

33.1.2.2. 1,0 mSv/h if the release or spread of radioactive substances is being reduced (absorption of iodine and caesium radionuclides takes place in radiological emergency containment systems in the object);

33.2. if a notification regarding a possible radiological emergency occurring within the next three hours has been received and the local or district government located in the area of emergency protection measures (hereinafter - local government) has issued a relevant order.

34. Iodine prophylactics shall be carried out for no more than seven days.

4.2. Staying Indoors and in Blast Shelters

35. Taking into account the recommendation of the Centre, the Rescue Service shall take a decision regarding residents who have suffered in a radiological emergency staying indoors or in blast shelters if such staying indoors or in blast shelters for 6 - 48 hours reduces the dose of the ionising radiation created by external and internal irradiation to:

35.1. 3 mSv within the next six hours;

35.2. 10 mSv within the next 48 hours.

36. The protection measure – residence in premises and protective structures - shall not be applied for more than 48 hours.

4.3. Evacuation

37. Evacuation shall be performed by moving residents who have suffered in radiological emergency from their permanent place of residence, as well as from work and rest areas in order to prevent or reduce their irradiation and prevent radiological emergency damage .



38. Taking into account the recommendation of the Centre, the decision regarding evacuation of residents who have suffered in radiological emergency shall be taken by:

38.1. the Emergency Situation State Operational Commission (hereinafter – State Operational Commission);

38.2. the relevant territorial emergency situation operational commission;

38.3. the Rescue Service or the relevant local government if it is impossible to convene members of the State Operational Commission or territorial emergency situation operational commission.

39. The operator shall take the decision regarding the evacuation from the object of workers not involved in the elimination of the radiological emergency and the consequences thereof that has occurred in the object.

40. The evacuation shall be performed in the following cases:

40.1. if the possible ionising radiation dose is:

40.1.1. more than 10 mSv in the next 24 hours; or

40.1.2. more than 50 mSv in the next seven days; and

40.2. if the possible ionising radiation dose rate is more than 1 mSv/h from:

40.2.1. a cloud of radioactive spray (calculation shall include the sum of the anticipated ionising radiation dose of the internal and external irradiation from the cloud of radioactive spray and topsoil within the next seven days); or

40.2.2. radioactive pollution of the territory (it shall be assumed in the calculation that the ionising radiation dose in seven days corresponds with 50 % of the ionising radiation dose in an open territory ,because residents are indoors or in blast shelters for a specified time period);

40.3. if the determined ionising radiation dose rate indoors and in blast shelters where residents who have suffered in radiological emergency are staying is more than 0,1 mSv/h.

41. If the anticipated ionising radiation dose:

41.1. is 30 mSv within a time period of 30 days after the accident or the ionising radiation dose rate created by the radioactive pollution of the territory is more than 0,2 mSv/h (taking measurements two to thirty days after the radiological emergency), the residents who have suffered in radiological emergency shall be moved, anticipating their return within a time period of one to two years (the ionising radiation dose in seven days shall correspond with 50 % of the ionising radiation dose in an open territory because the residents are staying indoors or in blast shelters for a definite time period);

41.2. shall reach 1 Sv during the lifetime of a human being, residents who have suffered in radiological emergency shall be moved to other place of residence, not anticipating their return.

42. If within a time period of 30 days after the radiological emergency the possible ionising radiation dose does not exceed 10 mSv, residents who have suffered in a radiological emergency to their permanent place of residence shall be allowed to return.

43. Evacuation shall be performed in accordance with the administrative and territorial principle, ensuring that the ionising radiation doses received by residents who have suffered in a radiological emergency would be as small as possible and the total ionising radiation dose would not exceed 30 mSv during evacuation. In co-ordinating with the State Operational Commission, the Rescue Service shall co-ordinate evacuation measures performed by several local governments concurrently.

44. The local government shall evacuate the residents who have suffered in a radiological emergency in accordance with the plan of action, as well as the co-operation agreements entered into with other local governments, institutions and commercial companies regarding the provision of transport, accommodation of the evacuated and ensuring the provision of the basic essentials required for normal living conditions.

4.4. Decontamination

45. In co-operation with local governments the Rescue Service and the Centre shall organise the decontamination of residents, technical equipment and livestock suffered in the radiological emergency, by involving an undertaking (a commercial company) dealing with the disposal or management of radioactive waste, if:

45.1. radioactive pollution of the environment exceeds the level specified in regulatory enactments;

45.2. the anticipated ionising radiation dose to residents is larger than 5 mSv/h per year.

46. Decontamination stations shall be formed:

46.1. in the immediate vicinity of the radiation-polluted territory;

46.2. in the immediate vicinity of border crossing points and frontier crossing points;

46.3. in medical treatment institutions.

4.5. Restrictions in the Use of Radiation-Polluted Food Products and Drinking Water

47. Taking into account the recommendation of the Ministry of Health and (or) the Ministry of Agriculture, the State Operational Commission shall take a decision regarding the protection measures for food products and drinking water.

48. The Food and Veterinary Service and the State Sanitary Inspection according to the competence thereof shall:

48.1. perform the inspection of radioactive pollution in food products and drinking water and inform the Centre regarding the non-compliance with the requirements specified;

48.2. if required, determine the restrictions in the use of radioactive-polluted food products and drinking water.

49. The Food and Veterinary Service and the State Sanitary Inspection according to the competence thereof shall prohibit the use of the food products and drinking water that might be radiation-polluted, in the following cases:

49.1. if the ionising radiation dose rate created by radioactive pollution of the territory is larger than 1 mSv/h;

49.2. if deposits of isotope 131 I on soil create specific radioactivity which:

49.2.1. is more than 10 kBq/m², - the use of food products is prohibited;

49.2.2. is more than 1 kBq/m^2 , - the use of milk and drinking water is prohibited; and

49.3. if deposits of isotope 137 Cs on soil create specific radioactivity, which is more than 2 kBq/m².

50. The use of food products and drinking water is prohibited:

50.1. if the specific radioactivity of isotope 131 I within a time period of 14 days after the nuclear accident:

50.1.1. is more than 1 kBq/kg in food products; and

50.1.2. is more than 0,1 kBq/l in milk and drinking water; and

50.2. if the specific radioactivity of isotope 137 Cs is more than 1 kBq/kg.

4.6. Protection of Livestock from Radioactive Pollution

51. The State Operational Commission shall take a decision regarding the performance of protection measures in agriculture upon the recommendation of the Ministry of Agriculture.

52. If radioactive pollution exceeds the level specified by regulatory enactments, the Food and Veterinary Service shall ensure the control of radioactive pollution of animal fodder and plants and, if required, introduce such methods of animal fodder processing as to reduce the radioactive pollution in animal fodder and food products of animal origin, as well as determine restrictions in the use of radiation-polluted animal fodder.

53. After co-ordination with the State Operational Commission the Rescue Service shall coordinate the relocation of livestock. The owner thereof shall move the livestock.

4.7. Radiological Emergency Caused by a Vehicle

54. If a vehicle, which transports radioactive materials, has had an accident, the Centre shall co-ordinate the activities for the elimination of the consequences of the radiological emergency on the site.

55. If a vehicle which transports radioactive materials has had a radiological emergency:

55.1. the driver of the vehicle shall perform the emergency protection measures that are specified in the safety data sheet of the ionising radiation source and inform the Centre, the Rescue Service and the relevant local government regarding the event;

55.2. the emergency service that arrives at the radiological emergency site first (if the driver of the vehicle did not have the possibility to inform regarding the radiological emergency and radioactive materials in the cargo) shall notify the Centre and the Rescue Service regarding the radiological emergency, radiation danger labels that are placed on the vehicle and the packaging of radioactive materials, as well as provide other information that characterises the cargo;

55.3. the emergency service that performs activities in the radiological emergency site, shall demarcate the radiological emergency site as being a restricted area if there are suspicions regarding damage of the packaging of the radioactive material, and call a representative of the Centre. The representative of the Centre shall co-ordinate the repackaging of the damaged package of the radioactive material and other activities for the elimination of the radiological emergency consequences on site;

55.4. the Centre shall co-ordinate the activities on the site of the radiological emergency, preventing irradiation of residents and penetration of radioactive substances from the damaged package of the radioactive material, polluted items and environmental objects into the human organism. External area of the demarcation area of the radiological emergency site shall be guarded by the State police, in the border zone – by the State Border Guard.

4.8. Radiological Emergency in the Area Controlled by the Operator

56. If a radiological emergency has occurred in the area controlled by an operator, the supervisor of the work crew shall:

56.1. perform the emergency protection measures and inform the Centre about the radiological emergency without delay, providing the following information:

56.1.1. the time, precise location and nature of the radiological emergency;

56.1.2. the possible cause of the radiological emergency and the forecast regarding further developments;

56.1.3. victims of the radiological emergency;

56.1.4. the required aid;

56.1.5. description of the radioactive substances involved in the radiological emergency, also the physical and chemical form and the radioactivity thereof (also the initial evaluation of the radioactivity that has reached the environment);

56.1.6. other criteria which allow the evaluation of the situation and forecast the development thereof; and

56.1.7. the performed and planned protection measures;

56.2. collect, package and prepare for transportation the radioactive waste that has emerged as the result of the radiological emergency.

57. If an incident has taken place, the operator shall notify the Centre immediately and perform protection measures in the area controlled by an operator.

4.9. Radiological Emergencies Caused by Illegal Activity with an Ionising Radiation Source (Theft, Loss) and the Detection of a Stolen or Lost Ionising Radiation Source

58. If an illegal activity involving ionising radiation source (theft, loss) has been determined, as well as if a stolen or lost ionising radiation source has been found, the work supervisor shall submit a notification regarding such situation to the Security Police and the Centre within a time period of 24 hours (Annex 2). After receipt of additional information the work supervisor shall immediately send to the Centre a further notification.

59. If nuclear material has been stolen, these activities shall be performed in accordance with the procedures specified in Section 22 of the Law On Radiation Safety and Nuclear Safety.

60. The Centre shall inform the relevant institutions, commercial companies and residents that may be under the threat of the radiological emergency regarding the theft or loss of ionising radiation source material, provide a description, pictures (if such are available) and characterisation of the hazard thereof.

61. If a natural person or a legal person has found an ionising radiation source outside the location wherein it is permitted to use and to store such a radiation source, such person shall inform thereof the Rescue Service and the Centre.

62. If a radioactive substance or nuclear material has been found:

62.1. the State Police (if the radioactive substance has been found) or the Security Police (if the nuclear material has been found) upon consultation with the Centre shall organise:

62.1.1. the demarcation of the area and its security within a radius of 30 metres around the possible ionising radiation source; and

62.1.2. the examination of the initial information received; 62.2. the Centre shall:

62.2.1. examine the site of the ionising radiation source and specify the protection measures area borders around the ionising radiation source in order to prevent the irradiation of residents for more than 1 mSv per year. If due to technical or economic reasons it is impossible to demarcate a wide territory, upon co-ordination with the Ministry of Health and a health care or medical treatment establishment the limit of ionising radiation dose at the protection measures area border shall be determined 5 mSv per year;

62.2.2. perform measurements in order to obtain information regarding the found ionising radiation source and ascertain whether pollution of the environment with radioactive substances has occurred;

62.2.3. shall perform measures for the collection of the evidence together with the State Police (if a theft of radioactive substance has taken place) or the Security Police (if a theft of nuclear material has taken place); and

62.2.4. forward the found ionising radiation source to a radiometry or radiochemistry laboratory in order to identify the ionising radiation source, determine the origin (according to technical capabilities) and the former owner or user thereof.

4.10. Falling Down of an Artificial Earth Satellite Containing Radioactive Materials

63. If there is a substantiated threat that there is a possibility of an artificial Earth satellite containing radioactive materials falling down in the territory of the Republic of Latvia :

63.1. the Centre shall inform the Rescue Service;

63.2. the Rescue Service shall:

63.2.1. inform the relevant State institutions, local governments and residents under the threat of radiological emergency regarding the possibility of the falling down of an artificial Earth satellite in the territory of the Republic of Latvia and distribute to residents a notification regarding the possible contact with radioactivepolluted debris of the satellite. It shall be indicated in the notification how to act in the event that debris is found; and

63.2.2. develop search tactics for locating the debris of the artificial Earth satellite in co-operation with the Centre, involving other institutions and services in the search process if necessary; and

63.3. shall get medical treatment institutions ready to provide relevant medical assistance.

64. If the artificial Earth satellite containing radioactive materials has fallen down in the territory of the Republic of Latvia:

64.1. the Centre shall inform the International Atomic Energy Agency and, if necessary, ask the International Atomic Energy Agency for help in the research of the radioactive pollution of the territory and in the performance of protection measures; and

64.2. the Rescue Service shall:

64.2.1. co-ordinate the search for the radioactive debris of the artificial Earth satellite; and

64.2.2. organise the emergency protection measures.

5. Training for Action in the Event of Radiological Emergency

65. The following persons shall be trained for action in the event of radiological emergency:

65.1. the staff of the State Operational Commission and territorial emergency situation operational commissions;

65.2. operators, heads of crews and workers in the objects; and

65.3. heads and employees of institutions and commercial companies, staff of the National Armed Forces that may get involved in organisation and performance of protection measures in the event of a radiological emergency.

66. The Rescue Service in co-operation with the Centre shall develop recommendations regarding radiation safety and nuclear safety topics to be included in study programmes, as well as regarding the preparedness for a radiological emergency and actions during radiological emergency.

67. In order to ensure preparedness for radiological emergency and reduce danger to workers who may get involved in the organisation and implementation of protection measures, the following training methods shall be used:

67.1. acquisition of qualifications (training in radiation safety and nuclear safety, as well as for action in the event of a radiological emergency and examination of the relevant knowledge);

67.2. further training and the relevant examination once every five years after the acquisition of the qualification;

67.3. training and examination of knowledge regarding the preparedness for radiological emergency and action in the event of the radiological emergency if substantial amendments to regulatory enactments regulating the issues of radiation safety and nuclear safety are made or work conditions or professional duties change;

67.4. State-wide training on protection measures and the practical implementation thereof – once every four years;

67.5. citywide, parish wide and district wide training on protection measures and the practical implementation thereof in the area of emergency protection measures (within a distance of 30 km from the *Ignalina* Nuclear Power Plant) and the area of long-term protection measures (within a distance of 100 km from the *Ignalina* Nuclear Power Plant) – once every three years.

6. Request and Receipt of International Assistance

68. The Centre in co-operation with the Ministry of Foreign Affairs shall request assistance from the International Atomic Energy Agency if due to radiological emergency:

68.1. it is necessary to perform wide protection measures of residents and the environment in a populated area in Latvia where there are 5000 residents or more;

68.2. a territory, which is larger than 100 km^2 has been polluted;

68.3. medical treatment institutions are not able to ensure the care and medical treatment of all victims of a radiological emergency;

68.4. it is impossible to perform the required protection measures.

69. The Ministry of Foreign Affairs in co-operation with the Rescue Service and the Centre shall co-ordinate the receipt of international assistance.

70. If in the event of a radiological emergency any other institution, commercial company or non-governmental organisation requires international assistance, the requester shall co-ordinate the request, receipt and use of the assistance with the Rescue Service and the Centre.

71. The Rescue Service shall co-ordinate the participation of international experts and other assistance groups in the elimination and examination of the consequences of the radiological emergency.

Informative Reference to European Union Directives

These Regulations contain legal norms arising from the Directive 89/618/Euratom.

Prime MinisterE. RepšeMinister for the InteriorM. Gulbis



Annex 1 Cabinet Regulation No. 152 8 April 2003

No.	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
1	2	3	4
1.		10 ¹²	10 ¹⁵
2.	⁷ Be	10 ¹⁰	10 ¹³
3.	¹⁴ C	10 ¹⁰	10 ¹³
4.	¹⁴ C	10 ¹⁰	10 ¹³
5.	¹⁵ O	10 ¹²	10 ¹⁵
6.	¹⁸ F	109	10^{12}
7.	²² Na	109	10^{12}
8.	²⁴ Na	108	10 ¹¹
9.	³¹ Si	109	10^{12}
10.	³² P	108	10 ¹¹
11.	³³ P	10 ¹¹	10^{14}
12.	³⁵ S	10 ¹¹	10^{14}
13.	³⁶ Cl	109	10^{12}
14.	³⁸ Cl	10 ¹¹	10^{14}
15.	³⁷ Ar	10 ¹¹	10^{14}
16.	⁴¹ Ar	10 ¹²	10 ¹⁵
17.	⁴⁰ K	109	10^{12}
18.	⁴² K	109	10^{12}
19.	⁴³ K	109	10^{12}
20.	⁴⁵ Ca	10 ¹⁰	10^{13}
21.	⁴⁷ Ca	109	10^{12}
22.	⁴⁶ Sc	109	10^{12}
23.	⁴⁷ Sc	109	10^{12}
24.	⁴⁸ Sc	10 ⁸	10 ¹¹
25.	⁴⁸ V	10 ⁸	10 ¹¹
26.	⁵¹ Cr	10^{10}	10^{13}
27.	⁵¹ Mn	10 ⁸	10^{11}
28.	⁵² Mn	108	10 ¹¹
29.	^{52m} Mn	108	10 ¹¹
30.	⁵³ Mn	10 ¹²	10 ¹⁵
31.	⁵⁴ Mn	109	10^{12}
32.	⁵⁶ Mn	10 ⁸	10 ¹¹
33.	⁵² Fe	109	10 ¹²

Significant Amount of Radioactive Substances

Translation © 2006 Tulkošanas un terminoloģijas centrs (Translation and Terminology Centre)

No.	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
		radiation sources, Bq	radiation sources, Bq
1	2	3	4
34.	555Fe	10°	1012
35.	³⁹ Fe	109	1012
36.	S3Co	109	1012
37.	³⁰ Co	108	1011
38.	⁵⁷ Co	109	1012
39.	⁵⁸ Co	109	10 ¹²
40.	^{58m} Co	10 ¹⁰	10 ¹³
41.	⁶⁰ Co	108	10 ¹¹
42.	^{60m} Co	109	10 ¹²
43.	⁶¹ Co	109	10 ¹²
44.	^{62m} Co	10 ⁸	10 ¹¹
45.	⁵⁹ Ni	10 ¹¹	10 ¹⁴
46.	⁶³ Ni	10 ¹¹	10 ¹⁴
47.	⁶⁵ Ni	109	10 ¹²
48.	⁶⁴ Cu	109	10 ¹²
49.	⁶⁵ Zn	109	10 ¹²
50.	⁶⁹ Zn	109	10 ¹²
51.	^{69m} Zn	109	10 ¹²
52.	⁷² Ga	108	10 ¹¹
53.	⁷¹ Ge	10 ¹¹	10 ¹⁴
54.	⁷³ As	10 ¹⁰	10 ¹³
55.	⁷⁴ As	109	10 ¹²
56.	⁷⁶ As	10 ⁸	10 ¹¹
57.	⁷⁷ As	109	10 ¹²
58.	⁷⁵ Se	109	10 ¹²
59.	⁸² Br	109	10 ¹²
60.	⁷⁴ Kr	10 ¹²	10 ¹⁵
61.	⁷⁶ Kr	10 ¹²	10 ¹⁵
62.	⁷⁷ Kr	10 ¹²	10 ¹⁵
63.	⁷⁹ Kr	10 ¹²	10 ¹⁵
64.	⁸¹ Kr	10 ¹⁰	10 ¹³
65.	^{83m} Kr	10 ¹⁵	10 ¹⁸
66.	⁸⁵ Kr	10 ¹⁴	10 ¹⁷
67.	^{85m} Kr	10 ¹³	10 ¹⁶
68.	⁸⁷ Kr	10^{12}	10 ¹⁵
69.	⁸⁸ Kr	10^{12}	10 ¹⁵
70	⁸⁶ Rh	10^{8}	10 ¹¹
71	⁸⁵ Sr	10 ⁹	10 ¹²
72	^{85m} cR	10 ¹⁰	10 ¹³
72	87m _{Cr}	10 ⁹	10 ¹²
13.	51	10	10

T&TC

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No.	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
		radiation sources, Bq	radiation sources, Bq
1	2	3	4
74.	⁸⁹ Sr	109	1012
75.	⁹⁰ Sr+	107	10 ¹⁰
76.	⁹¹ Sr	108	10 ¹¹
77.	⁹² Sr	109	10 ¹²
78.	⁹⁰ Y	108	1011
79.	⁹¹ Y	109	10 ¹²
80.	^{91m} Y	109	10 ¹²
81.	⁹² Y	10 ⁸	10 ¹¹
82.	⁹³ Y	10 ⁸	10 ¹¹
83.	⁹³ Zr+	10 ¹⁰	10 ¹³
84.	⁹⁵ Zr	109	10 ¹²
85.	⁹⁷ Zr+	10 ⁸	10 ¹¹
86.	^{93m} Nb	10 ¹⁰	10 ¹³
87.	⁹⁴ Nb	109	10^{12}
88.	⁹⁵ Nb	109	10 ¹²
89.	⁹⁷ Nb	109	10 ¹²
90.	⁹⁸ Nb	10 ⁸	10 ¹¹
91.	⁹⁰ Mo	109	10 ¹²
92.	⁹³ Mo	10 ¹¹	10 ¹⁴
93.	⁹⁹ Mo	109	10 ¹²
94.	¹⁰¹ Mo	109	10 ¹²
95.	⁹⁶ Tc	109	10 ¹²
96.	^{96m} Tc	10 ¹⁰	10 ¹³
97.	⁹⁷ Tc	10 ¹¹	10 ¹⁴
98.	^{97m} Tc	10 ¹⁰	10 ¹³
99.	⁹⁹ Tc	10 ¹⁰	10 ¹³
100.	^{99m} Tc	10 ¹⁰	10 ¹³
101.	⁹⁷ Ru	10 ¹⁰	10 ¹³
102.	¹⁰³ Ru	109	10 ¹²
103.	¹⁰⁵ Ru	109	10 ¹²
104.	106 Ru+	10 ⁸	10 ¹¹
105.	^{103m} Ru	10 ¹¹	10 ¹⁴
106.	¹⁰⁵ Rh	10 ¹⁰	10 ¹³
107.	¹⁰³ Pd	10 ¹¹	10 ¹⁴
108.	¹⁰⁹ Pd	109	10 ¹²
109.	¹⁰⁵ Ag	109	10 ¹²
110.	^{110m} Ag	109	10 ¹²
111.	¹¹¹ Ag	109	10 ¹²
112.	¹⁰⁹ Cd	109	10 ¹²
113.	¹¹⁵ Cd	109	10 ¹²

No.	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
	2	radiation sources, Bq	radiation sources, Bq
	115mc 1	<u> </u>	4
114.		10	10
115.	In 3m_	10 ⁹	1012
116.	In 114m	10	1012
117.	ln	10 ⁻	1012
118.	l ll3a		1012
119.	115Sn	1010	1013
120.	123 Sn	10°	1011
121.	122Sb	10'	1010
122.	124Sb	109	1012
123.	125Sb	109	10 ¹²
124.	Te	10 ¹⁰	10 ¹³
125.	^{125m} Te	10 ¹⁰	10 ¹³
126.	¹²⁷ Te	10 ⁹	10 ¹²
127.	^{127m} Te	10 ¹⁰	10 ¹³
128.	¹²⁹ Te	109	10 ¹²
129.	^{129m} Te	109	10 ¹²
130.	¹³¹ Te	108	10 ¹¹
131.	^{131m} Te	109	10 ¹²
132.	¹³² Te	10 ¹⁰	10 ¹³
133.	¹³³ Te	10 ⁸	10 ¹¹
134.	^{133m} Te	108	10 ¹¹
135.	¹³⁴ Te	109	10 ¹²
136.	¹²³ I	10 ¹⁰	10 ¹³
137.	¹²⁵ I	109	10 ¹²
138.	¹²⁶ I	109	10 ¹²
139.	¹²⁹ I	10 ⁸	10 ¹¹
140.	¹³⁰ I	109	10 ¹²
141.	¹³¹ I	109	10 ¹²
142.	¹³² I	10 ⁸	10 ¹¹
143.	¹³³ I	109	10 ¹²
144.	¹³⁴ I	10 ⁸	10 ¹¹
145.	¹³⁵ I	109	10 ¹²
146.	^{131m} Xe	10 ⁷	10 ¹⁰
147.	¹³³ Xe	10 ⁷	10 ¹⁰
148.	¹³⁵ Xe	10 ¹³	10 ¹⁶
149.	¹²⁹ Cs	108	10 ¹¹
150	¹³¹ Cs	109	10 ¹²
151	¹³² Cs	10^{8}	10 ¹¹
152	^{134m} Cs	10 ⁸	10 ¹¹
152.	¹³⁴ Cs	10 ⁷	10
1.55.		1 10	10

No	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
110.	Rudionuciluc	radiation sources, Bq	radiation sources, Bq
1	2	3	4
154.	¹³⁵ Cs	10 ¹⁰	10 ¹³
155.	¹³⁶ Cs	108	1011
156.	¹³⁷ Cs+	10'	10 ¹⁰
157.		10'	10 ¹⁰
158.	¹³¹ Ba	109	10 ¹²
159.	¹⁴⁰ Ba+	108	10 ¹¹
160.	¹⁴⁰ La	108	10 ¹¹
161.	¹³⁹ Ce	109	10 ¹²
162.	¹⁴¹ Ce	10 ¹⁰	10 ¹³
163.	¹³⁴ Ce	109	10 ¹²
164.	¹⁴⁴ Ce+	10 ⁸	10 ¹¹
165.	142 Pr	10 ⁸	10 ¹¹
166.	¹⁴³ Pr	109	10 ¹²
167.	¹⁴⁷ Nd	109	10 ¹²
168.	¹⁴⁹ Nd	109	10 ¹²
169.	¹⁴⁷ Pm	10 ¹⁰	10 ¹³
170.	¹⁴⁹ Pm	109	10 ¹²
171.	¹⁵¹ Sm	10 ¹¹	10 ¹⁴
172.	¹⁵³ Sm	109	10 ¹²
173.	¹⁵² Eu	109	10 ¹²
174.	^{152m} Eu	109	10 ¹²
175.	¹⁵⁴ Eu	109	10 ¹²
176.	¹⁵⁵ Eu	10 ¹⁰	10 ¹³
177.	¹⁵³ Gd	10 ¹⁰	10 ¹³
178.	¹⁵⁹ Gd	109	10 ¹²
179.	¹⁶⁰ Tb	109	10 ¹²
180.	¹⁶⁵ Dy	109	10 ¹²
181.	¹⁶⁶ Dy	109	10 ¹²
182.	¹⁶⁶ Ho	10 ⁸	10 ¹¹
183.	¹⁶⁹ Er	10 ¹⁰	10 ¹³
184.	¹⁷¹ Er	109	10 ¹²
185.	¹⁷⁰ Tm	109	10 ¹²
186.	¹⁷¹ Tm	10 ¹¹	10^{14}
187.	¹⁷⁵ Yb	10 ¹⁰	10 ¹³
188.	¹⁷⁷ Lu	10 ¹⁰	10 ¹³
189.	$^{181}\mathrm{Hf}$	109	10 ¹²
190.	¹⁸² Ta	107	10 ¹⁰
191.	¹⁸¹ W	10 ¹⁰	10 ¹³
192.	¹⁸⁵ W	10 ¹⁰	10 ¹³
193.	¹⁸⁷ W	109	10 ¹²

No	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed
110.	Rudiondende	radiation sources, Bq	radiation sources, Bq
1	2	3	4
194.	¹⁸⁰ Re	109	10 ¹²
195.	¹⁸⁸ Re	108	1011
196.	¹⁸⁵ Os	109	10 ¹²
197.	¹⁹¹ Os	10 ¹⁰	10 ¹³
198.	^{191m} Os	10 ¹⁰	10 ¹³
199.	¹⁹³ Os	109	10 ¹²
200.	¹⁹⁰ Ir	109	10 ¹²
201.	¹⁹² Ir	107	10 ¹⁰
202.	¹⁹⁴ Ir	10 ⁸	10 ¹¹
203.	¹⁹¹ Pt	10 ⁹	10 ¹²
204.	^{193m} Pt	10 ¹⁰	10 ¹³
205.	¹⁹⁷ Pt	109	10 ¹²
206.	^{197m} Pt	109	10 ¹²
207.	¹⁹⁸ Au	109	10 ¹²
208.	¹⁹⁹ Au	109	10 ¹²
209.	¹⁹⁷ Hg	10 ¹⁰	10 ¹³
210.	^{197m} Hg	109	10 ¹²
211.	²⁰³ Hg	108	10 ¹¹
212.	²⁰⁰ Tl	109	10 ¹²
213.	²⁰¹ Tl	109	10 ¹²
214.	²⁰² Tl	109	10 ¹²
215.	²⁰⁴ Tl	107	10^{10}
216.	²⁰³ Pb	109	10 ¹²
217.	²¹⁰ Pb+	107	10 ¹⁰
218.	²¹² Pb+	108	10 ¹¹
219.	²⁰⁶ Bi	108	10 ¹¹
220.	²⁰⁷ Bi	109	10 ¹²
221.	²¹⁰ Bi	109	10 ¹²
222.	²¹² Bi+	108	10 ¹¹
223.	²⁰³ Po	109	10 ¹²
224.	²⁰⁵ Po	109	10 ¹²
225.	²⁰⁷ Po	109	10 ¹²
226.	²¹⁰ Po	107	10 ¹⁰
227.	²¹¹ At	10 ¹⁰	10 ¹³
228.	²²⁰ Rn+	10 ¹⁰	10 ¹³
229.	²²² Rn+	10 ¹¹	10 ¹⁴
230.	²²³ Ra+	10 ⁸	10 ¹¹
231.	²²⁴ Ra+	10 ⁸	10 ¹¹
232.	²²⁵ Ra	108	10 ¹¹
233.	²²⁶ Ra+	10 ⁷	10 ¹⁰

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No.	Radionuclide	Radioactivity for unsealed	Radioactivity for sealed radiation sources. Bo
1	2	3	4
234.	²²⁷ Ra	109	10 ¹²
235.	228 Ra+	10 ⁸	10 ¹¹
236.	²²⁸ Ac	109	10 ¹²
237.	²²⁶ Th+	10 ¹⁰	10 ¹³
238.	²²⁷ Th	107	10 ¹⁰
239.	²²⁸ Th+	107	10 ¹⁰
240.	²²⁹ Th+	10 ⁶	10 ⁹
241.	²³⁰ Th	107	10 ¹⁰
242.	²³¹ Th	10 ¹⁰	10 ¹³
243.	²³² Th ^{sec}	10 ⁶	10 ⁹
244.	²³⁴ Th+	10 ⁸	10 ¹¹
245.	²³⁰ Pa	109	10 ¹²
246.	²³¹ Pa	10 ⁶	10 ⁹
247.	²³³ Pa	10 ¹⁰	10 ¹³
248.	²³⁰ U+	10 ⁸	10 ¹¹
249.	²³¹ U	10 ¹⁰	10 ¹³
250.	²³² U+	10^{6}	10 ⁹
251.	²³³ U	107	10^{10}
252.	²³⁴ U	10 ⁷	10 ¹⁰
253.	²³⁵ U+	10 ⁷	10^{10}
254.	²³⁶ U	10 ⁷	10^{10}
255.	²³⁷ U	109	10 ¹²
256.	²³⁸ U+	10 ⁷	10 ¹⁰
257.	²³⁸ U ^{sec}	10 ⁶	10 ⁹
258.	²³⁹ U	109	10 ¹²
259.	²³⁴ U	10 ¹⁰	10 ¹³
260.	²⁴⁰ U+	109	10 ¹²
261.	²³⁷ Np+	106	10 ⁹
262.	²³⁹ Np	10 ¹⁰	10 ¹³
263.	²⁴⁰ Np	109	10 ¹²
264.	²³⁴ Pu	10 ¹⁰	10 ¹³
265.	²³⁵ Pu	10 ¹⁰	10 ¹³
266.	²³⁶ Pu	107	10 ¹⁰
267.	²³⁷ Pu	1010	10 ¹³
268.	²³⁸ Pu	107	10 ¹⁰
269.	²³⁹ Pu	10'	10 ¹⁰
270.	²⁴⁰ Pu	10°	109
271.	²⁴¹ Pu	10 ⁸	10 ¹¹
272.	²⁴² Pu	107	10 ¹⁰
273.	²⁴³ Pu	10 ¹⁰	10 ¹³

No.	Radionuclide	Radioactivity for unsealed radiation sources, Bq	Radioactivity for sealed radiation sources, Bq
1	2	3	4
274.	²⁴⁴ Pu	107	10 ¹⁰
275.	²⁴¹ Am	107	10 ¹⁰
276.	²⁴² Am	109	10 ¹²
277.	^{242m} Am+	107	10 ¹⁰
278.	²³⁴ Am+	106	10 ⁹
279.	²⁴² Cm	108	10 ¹¹
280.	²⁴³ Cm	107	10 ¹⁰
281.	²⁴⁴ Cm	107	10 ¹⁰
282.	²⁴⁵ Cm	10 ⁶	109
283.	²⁴⁶ Cm	106	10 ⁹
284.	²⁴⁷ Cm	106	10 ⁹
285.	²⁴⁸ Cm	106	109
286.	²⁴⁹ Bk	109	10 ¹²
287.	²⁴⁶ Cf	109	10^{12}
288.	²⁴⁸ Cf	107	10^{10}
289.	²⁴⁹ Cf	10 ⁶	109
290.	²⁵⁰ Cf	107	10 ¹⁰
291.	²⁵¹ Cf	106	109
292.	²⁵² Cf	107	10 ¹⁰
293.	²⁵³ Cf	10 ⁸	10 ¹¹
294.	²⁵⁴ Cf	10 ⁶	109
295.	²⁵³ Es	108	10 ¹¹
296.	²⁵⁴ Es	107	10 ¹⁰
297.	^{254m} Es	109	10 ¹²
298.	²⁵⁴ Fm	10 ¹⁰	10 ¹³
299.	²⁵⁶ Fm	109	10 ¹²

Minister for the Interior

M. Gulbis

Annex 2 Cabinet Regulation No. 152 8 April 2003

Notification Regarding Illegal Activity Involving an Ionising Radiation Source (Theft, Losing) and the Detection of a Stolen or Lost Ionising Radiation Source

To the Radiation Safety Centre and the Security Police

Status of the notification (specify one): Registration number _____

[] first information

[] specified information

Part I. Generally Accessible Information			
Date when the illegal activity was detected	Location where the illegal activity has taken place		
The possible date of theft or loss	The last known location of the ionised radiation source		
Nature of the illegal activity			
Source of ionising	g radiation		
Nuclear material	Other source of ionising radiation		
[] natural uranium			
[] depleted uranium	Radionuclide		
[] thorium	Radioactivity ¹		
[] low enriched uranium (< 20 % 235 U)	([]Bq or []Ci)		
[] highly enriched uranium			
(> 20 % ²³⁵ U)			
[] uranium 233	[] sealed radiation source		
[] plutonium			
[] other (specify)	[] unsealed radiation source		
isotopic composition (%)			
²³⁵ U [] ²³³ U [] ²³⁹ Pu []			
quantity [] kg [] g			

Chemical description (U_3O_8 , oxide, metal, UF₆, tritium water or other chemical composition)

Physical description (tablets, powder, gas, aqueous solution, fuel elements, scrap metal or other form)

Comments (any additional information, protection measures performed, request for support to the addressee)

Part II. Additional Information				
(Specify whether the relevant information is or is not restricted	(Specify whether the relevant information is or is not restricted access information)			
1. Means used for the detection of the ionising radiation source (also type of the used device)	[] yes [] no			
2. Intended use of the ionising radiation source (for sale, disposal, processing or other purpose)	[] yes [] no			
3. Person who has performed illegal activity with the ionising radiation source	[] yes [] no			
4. Persons or institutions involved in the detection of illegal activity with the ionising radiation source	[] yes [] no			
5. Description of the container, package and label of the ionising radiation source	[] yes [] no			
6. Measurements or laboratory analysis of the ionising radiation	[] yes [] no			
7. Laboratory that has performed (is performing) measurements and analyses	[] yes [] no			
8. Other activities performed	[] yes [] no			
9. Other information and comments	[] yes [] no			
(the name of the State Institution and the position, given name, surname (signature of the authorised person) (date)	e of the authorised person)			
Place for a seal				

Notes. ¹ 1 Bq = 1 disintegration/s; 1 Ci = 3,7 x 10^{10} Bq. ² If isotopic composition is not known, a note *nav zināms* [not known] or *nav pārbaudīts* [not examined] shall be made.

Minister for the Interior

M. Gulbis