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Unit DG ENER D.3 Radiation Protection and
Nuclear
DG Energy
European Commission

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CONCERNING INFORMATION TRANSMISSION

Please find enclosed the letter from the Ministry of Environment of the Republic of Lithuania, No. (4.4)-A4-9644 concerning the plan on implementation of recommendations presented in Technical Report on Verification under the terms of Article 35 of Euratom Treaty.

ENCL. 5 pages.

Ambassador-at-large
Deputy Permanent Representative of Lithuania to the EU

Robertas Rosinas

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DG	ASS	001	01	SIAC	SRD
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**THE PLAN ON IMPLEMENTATION OF RECOMMENDATIONS PRESENTED IN
TECHNICAL REPORT ON VERIFICATION UNDER THE TERMS OF ARTICLE 35 OF
EURATOM TREATY**

We would like to present the plan on implementation of recommendations after EC verification in the frame of EURATOM TREATY article 35, which took place in Lithuania in 29 November – 1 December, 2016.

We would like to inform what the final report on implementation will be presented when all foreseen measure will be implemented, however we will keep European Commission informed on the progress of implementation.

ENCLOSED. The plan on implementation of recommendations presented in Technical Report on Verification under the terms of Article 35 of Euratom Treaty, 4 pages.

Deputy director
performing functions of director

Aldona Margeriene

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Lithuania
Celebrates 100

Table 1. Plan on implementation of recommendations presented in Technical Report on Verification under the terms of Article 35 of Euratom Treaty

No	No of Recommendation	Recommendation	Correction action	Date of fulfilment	Responsible institution
1	Main Findings 3 a Technical Report 7.2.1	Concerning the emergency monitoring arrangements at the Environment Protection Agency (EPA) (Section 7.2.1 of the TR) the verification team recommends that the EPA organises a continuous emergency on-call service capable of responding to a possible radiological emergency within an hour of the first alert. The team further recommends increasing the number of trained staff for the monitoring network maintenance.	The increase of network of automatic network is performed and will be performed in 2018. During the implementation of the project it will be possibility to organise training of additional staff from EPA. Moreover, structural changes of EPA are planned in 2018, during these changes attention will be paid for insuring availability of necessary human resources for responding to a possible radiological emergency within an hour of the first alert. Special procedure for organising of work inside EPA (management, responsibility, duties) during emergency situation will be prepared.	2018	EPA
2	Main Findings 3 b Technical report 7.5.1.	Concerning the EPA radioanalytical laboratory (Section 7.5.1 of the TR), the verification team recommends a review of resources and staff allocations to address the increased monitoring needs in a radiological emergency situation.	Structural changes of EPA are planned in 2018, during these changes attention will be paid for insuring availability of necessary human resources to address the increased monitoring needs in a radiological emergency situation. Special procedure for organising of work inside EPA (management, responsibility, duties) during emergency situation will be prepared.	2018	EPA
3	Main Findings 3 c	Concerning the National Food and Veterinary Risk Assessment Institute (NFVRAI) radioanalytical	Revision of internal Emergency management plan of State Food and Veterinary Service was	2017, implemented	SFVS NFVRAI

No	No of Recommendation	Recommendation	Correction action	Date of fulfilment	Responsible institution												
		laboratory (Section 7.5.2 of the TR), the verification team recommends a review of resources and staff allocations to address the increased monitoring needs in a radiological emergency situation.	<p>performed.</p> <p>Number of veterinary inspectors for collection of samples in a radiological emergency situation is allocated in different zones from the potential sources.</p> <table border="0"> <tr> <td>Zone/districts</td> <td>Number of inspectors</td> </tr> <tr> <td>zone30km (2 districts)</td> <td>14</td> </tr> <tr> <td>zone50 km (4 districts)</td> <td>22</td> </tr> <tr> <td>Zone100 km (9 districts)</td> <td>44</td> </tr> <tr> <td>Zone300 km (27 districts)</td> <td>181</td> </tr> <tr> <td>Total number</td> <td>261</td> </tr> </table> <p>Responsible persons, their contact information and resources are included to the Emergency plan.</p>	Zone/districts	Number of inspectors	zone30km (2 districts)	14	zone50 km (4 districts)	22	Zone100 km (9 districts)	44	Zone300 km (27 districts)	181	Total number	261		
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4	Technical Report 7.2.3	The verification team suggests removing the trees in the vicinity of the station. (Buivydziai)	Trees cannot be cut in the area. However, separate branches of overhanging trees are planned to be cut.	2018	EPA												
5	Technical Report 7.2.4.	The verification team recommends that the EPA clarifies the significance of the unit Bq/cm ² used in the activity reporting.	<p>Meaning of measurement results and technical possibilities of unit changing was clarified with producer of stations and software.</p> <p>Explanation: „For activity calculation with the measurement station, an assumption about the source of the radiation should be made.</p> <p>Station has no information if the recorded gamma photon was emitted by a point source, by a nuclide deposited on the ground or being bound to aerosols, so the model has to be used. As a standard, an assumption that all measured activity is emitted by a homogenous distributed ground activity is done, thus</p>	2017	EPA												

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			<p>yielding to Bq/m² units. Alternatively, the calculation basing on the assumption, that all activity is homogeneous distributed in the air can be done. Both cases do not reflect the reality, but give figures, with which it can be compared an activity level with a background situation.”</p>		
6	7.4.1.	<p>The verification team suggests that the EPA consider installing an automatic continuous river water sampling system in Buivydziai when the Belarusian NPP becomes operational.</p>	<p>Increasing of sampling frequency in Neris river near Buivydziai is planned from 2018. These changes will be done in new National Monitoring Programme 2018-2023. From the experience it is known what high amount of suspended particles in the river water can cause problems with automatic sampling.</p>	2018	EPA
7	7.5.2.	<p>The verification team recommends that the NFVRAI laboratory draft an emergency plan outlining how it would cope with an increased number of samples in the event of a radiological emergency.</p>	<p>In Government Resolution No 99 (2012) on the State Public Protection Plan in case of a nuclear accident it is foreseen what in emergency case samples will be distributed among all operated laboratories in the country, including scientific institutions, which on regular basis do not participate in the environmental monitoring. What concerns NFVRAI, special room for keeping of samples in emergency situations is allocated. Samples will be provided to laboratory one by one, for keeping low background and avoiding of contamination in laboratory. The procedure on registration and managing of samples will be reviewed for taking to account increased amount of samples.</p>	2018	SFVS NFVRAI

No	No of Recommendation	Recommendation	Correction action	Date of fulfilment	Responsible institution
		The verification team suggests modernising the liquid scintillation counting equipment in the near future.	Evaluation of equipment availability in the market and prices was done. Necessary funds were calculates, purchasing of new Low Activity Liquid Scintillation Counter is put in priority list. When necessary funds will be available the equipment will be purchased.	2019	SFVS NFVRAI

Abbreviations:

EPA – Environmental Protection Agency

SFVS – State Food and Veterinary Service

NFVRAI - National Food and Veterinary Risk Assessment Institute