



Ministry of Environment, Waters and Forests  
National Environmental Protection Agency



PRESIDENT  
SECRETARY OF STATE

No.: 11849/25.04.2023  
To: EUROPEAN COMMISSION,  
DIRECTORATE-GENERAL FOR ENERGY  
In the attention of: Mrs. Luminita DIACONU,  
Mr. Stefan MUNDIGL - Verification team  
Referring to: Up-date regarding the implementation of EC recommendations in  
accordance with the EURATOM Treaty art. 35

**Dear Mrs. Diaconu,  
Dear Mr. Mundigl,**

Regarding the conclusions from 2017, as a result of the verification visit based on art. 35 of the EURATOM Treaty, we submit the implementation of the technical recommendations and suggestions made from concerned institutions, for the present.

**1) Ministry of Environmental, Water and Forests - National Environmental Protection Agency**

*Recommendation - „The verification team suggests that NEPA evaluates the need for having additional high sensitivity gaseous iodine detection capability in Bucharest.”*

In order to improve National Environmental Radioactivity Surveillance Network national wide response in situations of nuclear accidents/radiological emergencies, all 6 gamma spectrometry laboratories have purchased activated carbon cartridges for the sampling of radioactive iodine in emergency situations.



**AGENȚIA NAȚIONALĂ PENTRU PROTECȚIA MEDIULUI**

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## 2) Ministry of Health - Ionizing Hygiene Laboratory

*Recommendation - a) "The verification team recommends that when reporting an estimated annual dose from drinking water consumption also the assumptions and restrictions of the dose calculation would be communicated to the customer."*

The radioactivity results appearing in the drinking water analysis reports are in accordance with the specific legislative provisions for the determination of radioactive parameters: global alpha and beta, radon where applicable. When gross alpha/beta measured values are below the reference values provided by Law 301/2015 - *on establishing the requirements for the protection of the health of the population with regard to radioactive substances in drinking water*, the conclusion is that the DETR reference value (0.1 mSv/year) is not exceeded.

*Recommendation - b) "As a matter of good laboratory practise, the verification team recommends participation in laboratory inter-comparison exercises, in particular on drinking water measurements, at least on national, but preferably on international level."*

The Ionizing Radiation Hygiene Laboratory within the Bucharest Public Health Directorate participated, alongside all local Ionizing Radiation Hygiene Laboratories from national level in an international proficiency test organized by the European Commission, JRC - Geel's REM 2019, for gross alpha and beta determinations from drinking water samples.

*Recommendation - c) "The verification team recommends acquisition of a new gamma spectroscopy system for the Bucharest laboratory as soon as possible."*

*Recommendation - d) "In addition, the verification team recommends that the Ministry of Health considers different options for allocating sufficient additional personnel for the laboratory in the event of a radiological emergency. "*



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Up until now, the recommendations from points c) and d) have not been implemented due to reasons beyond the will of the institution.

All Ionizing Radiation Hygiene Laboratories at country level are included in a national program of investment in equipment and specialized personnel, necessary for the determination of all radioactive parameters in drinking water, a project financed by 85% of European funds.

This national project for "Development of a national laboratory to improve the monitoring of substances discharged into water and the quality of drinking water" is part of the Large Infrastructure Operational Plan (POIM) from priority Annex 3 - Development of environmental infrastructure under conditions of efficient management of resources and it is in progress.

The project includes both the acquisition of infrastructure and logistics for the laboratories for monitoring drinking water from the point of view of radioactivity, as well as the acquisition of training services for specialized personnel from the radiation hygiene laboratories of the Ministry of Health, responsible for the quality analyzes of drinking water from a radioactive point of view.

### **3) National Sanitary Veterinary and Food Safety Authority Radioactivity Laboratory of the Institute for Hygiene and Veterinary Public Health**

*Recommendation - "The verification team recommends that the laboratory considers a room plan where a specific room outside the counting room is allocated for management of possible contaminated samples in the event of an emergency. "*



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Currently, the analysis of samples for the determination of radioactivity is carried out in the old building of the Institute of Public Veterinary Hygiene and Health (IPVHH), in a special room lined with lead.

The new building, which will house the IPVHH is in the works, with a completion date of July 2023 and is equipped with 3 spaces for radioactivity testing and a specially designed room, where the radioactive sources will be stored.

**Sincerely,**

**PRESIDENT**  
**Laurențiu - Alexandru PAȘTINARU**



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