Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service

Signatory to the EA Multilateral Agreement in this field

ORDER

No A 322

Sofia, 26.08.2024

Pursuant to Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies and item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 307/154 ЛИ/ПА/16.01.2024, assessment report reg. № 307/154 ЛИ/8/В/11.04.2024 and statement of Accreditation Commission reg. № 307/154 ЛИ/10/В/15.08.2024, I hereby

RE-ACCREDIT

KOZLODUY NPP EAD
TESTING LABORATORY RADIOECOLOGICAL MONITORING

Management and laboratory address: 3321 Kozloduy, Vratsa Region, Kozloduy NPP
To perform testing of:

Scope type: *fixed*			
№	**Name of tested products**	**Testing type/characteristics**	**Testing methods (standardised/ validated)**
1	**2**	**3**	**4**
1.	Aerosols. Gaseous aerosol emissions	1.1. Volumetric activity of gamma emitting radionuclides, $Bq.m^{-3}$	ВЛМ № 1/2010
		1.2. Volumetric activity of Plutonium 238, 239+240, $Bq.m^{-3}$	ВЛМ № 4/2010
		1.3. Volumetric activity of Americium 241 and Curium 242, 243+244, $Bq.m^{-3}$	ВЛМ № 5/2010
		1.4. Volumetric activity of Strontium 89+90, $Bq.m^{-3}$	ВЛМ № 3/2010
		1.5. Volumetric activity of Carbon 14, $Bq.m^{-3}$	ВЛМ № 6/2010
		1.6. Volumetric activity of Tritium, $Bq.m^{-3}$	ВЛМ № 2/2010
2.	Atmospheric depositions	2.1. Surface activity of gamma emitting radionuclides, $Bq.m^{-2}.d^{-1}$	ВЛМ № 1/2010
		2.2. Surface total beta-activity, $Bq.m^{-2}.d^{-1}$	ВЛМ № 7/2010
		2.3. Surface activity of Strontium 89+90, $Bq.m^{-2}.d^{-1}$	ВЛМ № 3/2010
3.	Soils, bottom sediments	3.1. Mass activity of gamma emitting radionuclides, $Bq.kg^{-1}$	ВЛМ № 1/2010
		3.2. Mass activity of Strontium 89+90, $Bq.kg^{-1}$	ВЛМ № 3/2010

Scope type: *fixed*			
№	**Name of tested products**	**Testing type/characteristics**	**Testing methods (standardised/ validated)**
1	**2**	**3**	**4**
		3.3. Mass activity of Plutonium 238, 239+240, $Bq.kg^{-1}$	ВЛМ № 4/2010
		3.4. Mass activity of Americium 241 and Curium 242, 243+244, $Bq.kg^{-1}$	ВЛМ № 5/2010
4	Water	4.1. Volumetric activity of gamma emitting radionuclides, $Bq.l^{-1}$	ВЛМ № 1/2010
		4.2. Volumetric activity of Caesium 134, 137 in water, $Bq.l^{-1}$	ВЛМ № 9/2010
		4.3. Volumetric activity of Tritium, $Bq.l^{-1}$	ВЛМ № 2/2010
		4.4. Volumetric activity of Strontium 89+90, $Bq.l^{-1}$	ВЛМ № 3/2010
		4.5. Volumetric total beta-activity, $Bq.l^{-1}$	ВЛМ № 7/2010
		4.6. Volumetric total alpha-activity, $Bq.l^{-1}$	ВЛМ № 8/2010
		4.7. Volumetric activity of Plutonium 238, 239+240, $Bq.m^{-3}$	ВЛМ № 4/2010
		4.8. Volumetric activity of Americium 241 and Curium 242, 243+244, $Bq.m^{-3}$	ВЛМ № 5/2010
5.	Plants and agricultural products (grass, grain, forage)	5.1. Mass activity of gamma emitting radionuclides, $Bq.kg^{-1}$	ВЛМ № 1/2010
		5.2. Mass activity of Strontium 89+90, $Bq.kg^{-1}$	ВЛМ № 3/2010
		5.3. Mass total beta-activity, $Bq.kg^{-1}$	ВЛМ № 7/2010
6.	Milk and dairy products	6.1. Volumetric activity of gamma emitting radionuclides, $Bq.l^{-1}$	ВЛМ № 1/2010
		6.2. Volumetric activity of Strontium, 89+90, $Bq.l^{-1}$	ВЛМ № 3/2010
		6.3. Volumetric total beta-activity, $Bq.l^{-1}$	ВЛМ № 7/2010
7.	Fish /meat and bones/	7.1. Mass activity of gamma emitting radionuclides, $Bq.kg^{-1}$	ВЛМ № 1/2010
		7.2. Mass activity of Strontium 89+90, $Bq.kg^{-1}$	ВЛМ № 3/2010

To perform sampling of:

Scope type: *fixed*		
№	**Name of tested products**	**Sampling method**
1	2	3
1.	Soils	БДС 17.4.5.01:1985
2.	Bottom sediments	БДС ISO 5667-12:2017
3.	Oil-bearing seeds	БДС EN ISO 21294:2018
4.	Plants, grains and forage	ВЛМ № 19/2019
5.	Water	БДС EN ISO 5667-6:2016 БДС ISO 5667-10:2020 БДС ISO 5667-11:2011
6.	Air	ВЛМ № 11/2010

Fixed scope references:

1. ВЛМ № 1:2010 - Methodology for detection of gamma-emitting radionuclides.
2. ВЛМ № 2:2010 - Methodology for detection of Tritium content in water and gaseous aerosol emissions.
3. ВЛМ № 3:2010 - Methodology for detection of Strontium content- 89, 90.
4. ВЛМ № 4:2010 - Methodology for detection of Plutonium content (238Pu, 239+240Pu) in water, soils, bottom sediments and gaseous aerosol emissions.
5. ВЛМ № 5:2010 - Methodology for detection of Americium content (241Am) and Curium (242, 243+244Cm) in water, soils, bottom sediments and gaseous aerosol emissions.
6. ВЛМ № 6:2010 - Methodology for detection of Carbon-14 content in gaseous aerosol emissions.
7. ВЛМ № 7:2010 - Methodology for detection of total beta activity in air, water, milk and plants.
8. ВЛМ № 8:2010 - Methodology for detection of total alpha in water.
9. ВЛМ № 9:2010 - Methodology for detection of Radiocesium (134, 137Cs) content in water.
10. ВЛМ № 11:2010 - Methodology for air sampling - aerosols and atmospheric depositions.
11. ВЛМ № 19:2019 - Methodology for plants, grain and forage sampling.

I ORDER

To issue the certificate of accreditation reg. № 154 ЛИ/26.08.2024, valid until 26.08.2028, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the executive director of of Kozloduy NPP EAD, Kozloduy, the head of Testing Laboratory Radioecological Monitoring at Kozloduy NPP EAD, or other authorized person.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate № 154 ЛИ/23.11.2021, valid until 26.08.2024 and its enclosure – EA BAS order reg. № А 716/23.11.2021.

This order is to be announced to Kozloduy NPP EAD within a 3-day period from its issuance.

Eng. Irena Borislavova
Executive Director of Executive Agency
"Bulgarian Accreditation Service"