



**ENVIRONMENTAL PROTECTION  
AGENCY**

**REPORT**

**ON RADIONUCLIDES DISCHARGED FROM NUCLEAR POWER  
REACTORS**

LITHUANIA, 2016

**Compilation sheets for reporting  
radionuclides discharged from nuclear power reactors during normal operation**

A. 1

Compilation sheet for reporting airborne discharges from nuclear power reactors

Reactor site (name/type): RBMK-1500, Ignalina Nuclear Power Plant, Lithuania	Period (year of discharge): 2015
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Air volume released during the period (m<sup>3</sup>) – 2,522\*10<sup>10</sup>

Category/Radionuclides	Highest value of detection limit actually achieved for key nuclides (Bq/m <sup>3</sup> )	Activity discharged per year (Bq)	Commentary
<i>Noble gases</i>			
Ar-41		0	
Kr-85		0	
Kr-85m		0	
Kr-87		0	
Kr-88		0	
Kr-89		0	
Xe-131m		0	
Xe-133		0	
Xe-133m		0	
Xe-135		0	
Xe-135m		0	
Xe-137		0	
Xe-138		0	
<i>Particulates (excluding iodines)</i>			
Cr-51		0	
Mn-54		0	
Co-58		0	
Fe-59		0	
Co-60	7,1*10 <sup>-3</sup>	2,752*10 <sup>7</sup>	
Zn-65		0	
Sr-89		0	
Sr-90	2,0*10 <sup>-5</sup>	3,846*10 <sup>6</sup>	
Zr-95		0	
Nb-95		0	
Ag-110m		0	
Sb-122		0	
Sb-124		0	
Sb-125		-	Not measured
Cs-134	5,1*10 <sup>-3</sup>	9,132*10 <sup>4</sup>	
Cs-137	5,5*10 <sup>-3</sup>	1,809*10 <sup>7</sup>	
Ba-140		0	
La-140		0	
Ce-141		0	
Ce-144		0	
Eu-152	2,1*10 <sup>-3</sup>	7,462*10 <sup>4</sup>	
Eu-154	2,0*10 <sup>-3</sup>	5,850*10 <sup>4</sup>	
Pu-238		-	Not measured
Pu-239+Pu-240		-	Not measured
Am-241		-	Not measured
Cm-242		-	Not measured

Category/Radionuclides	Highest value of detection limit actually achieved for key nuclides (Bq/m <sup>3</sup> )	Activity discharged per year (Bq)	Commentary
Cm-243		-	Not measured
Cm-244		-	Not measured
Total-alpha	1,10*10 <sup>-6</sup>	0	
<i>Iodines</i>			
I-131		0	
I-132		0	
I-133		0	
I-135		0	
Tritium	8,5*10 <sup>-1</sup>	3,114*10 <sup>9</sup>	
Carbon-14	5,2*10 <sup>-1</sup>	4,067*10 <sup>9</sup>	

## A.2.

### Compilation sheet for reporting liquid discharges from nuclear power reactors

Reactor site (name/type): RBMK-1500, Ignalina Nuclear Power Plant, Lithuania	Period (year of discharge): 2015
Water volume released during the period (m <sup>3</sup> ): 1,2*10 <sup>7</sup>	

Category/Radionuclide	Highest value of detection limit actually achieved for key nuclides (Bq/m <sup>3</sup> )	Activity discharged per year (Bq)	Commentary
<i>Tritium</i>	3300	1,85*10 <sup>10</sup>	Measured H-3 in water form

#### *Other radionuclides (excluding H-3)*

S-35 <sup>(1)</sup>			Not measured
Cr-51		0	
Mn-54		0	
Fe-55		-	Not measured
Fe-59		0	
Co-58		0	
Co-60	6	1,83*10 <sup>6</sup>	
Ni-63		-	Not measured
Zn-65		0	
Sr-89		-	Not measured
Sr-90		0	
Zr-95		0	
Nb-95		0	
Ru-103		0	
Ru-106		0	
Ag-110m		0	
Sb-122		0	
Te-123m		0	
Sb-124		0	
Sb-125		0	

Category/Radionuclide	Highest value of detection limit actually achieved for key nuclides (Bq/m <sup>3</sup> )	Activity discharged per year (Bq)	Commentary
I-131		0	
Cs-134	2	1,44*10 <sup>5</sup>	
Cs-137	3	2,25*10 <sup>7</sup>	
Ba-140		0	
La-140		0	
Ce-141		0	
Ce-144		0	
Pu-238		0	
Pu-239 + Pu-240		0	
Am-241		-	Not measured
Cm-242		-	Not measured
Cm-243		-	Not measured
Cm-244		-	Not measured
Total-Alpha		0	