

[Definite Report] Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS

【確報版】福島第一原子力発電所 建屋開口部等における空気中放射性物質の核種分析結果

Place of Sampling	3rd Floor of Auxiliary Operation Shared Facility (Around the Machine Hatch) 運用補助共用施設3階 (機器ハッチ近傍)		3rd Floor of Auxiliary Operation Shared Facility (In Front of South Stairs) 運用補助共用施設3階 (南側階段前)		3rd Floor of Auxiliary Operation Shared Facility (In Front of North Stairs) 運用補助共用施設3階 (北側階段前)		② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm ³)*
	From YY/MM/DD Time To YY/MM/DD Time		From YY/MM/DD Time To YY/MM/DD Time		From YY/MM/DD Time To YY/MM/DD Time		
Detected Nuclides (Half-life)	① Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	① Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	① Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)							
Cs-134 (Approx. 2 years)							
Cs-137 (Approx. 30 years)							
Mn-54 (Approx. 310 days)							
Co-60 (Approx. 5 years)							
Nb-95 (Approx. 35 days)							
Tc-99m (Approx. 6 hrs)							
Ru-106 (Approx. 370 days)							
Ag-110m (Approx. 250 days)							
Sb-125 (Approx. 3 yrs)							
Te-129 (Approx. 70 mins)							
Te-129m (Approx. 34 days)							
I-132 (Approx. 2 hrs)							
Te-132 (Approx. 78 hrs)							
I-133 (Approx. 21 hrs)							
Cs-136 (Approx. 13 days)							
Ba-140 (Approx. 13 days)							
La-140 (Approx. 40 hrs)							

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

* O.OE—O is the same as O.O x 10^{-O}

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

The detection limits of the major three nuclides not detected are as follows:

Volatile: I-131: Approx. OE-OBq/cm³, Cs-134: Approx. OE-OBq/cm³, Cs-137: Approx. OE-OBq/cm³

Particulate: I-131: Approx. OE-OBq/cm³, Cs-134: OE-OBq/cm³, Cs-137: Approx. OE-OBq/cm³

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

[Definite Report] Airborne Nuclide analysis results at ventilation facility of Unit 2 reactor bldg. in the Fukushima Daiichi NPS

【確報版】福島第一原子力発電所 2号機原子炉建屋排気設備における空气中放射性物質の核種分析結果

Place of Sampling	Ventilation facility of Unit 2 reactor bldg. (Opening of exhaust gas filter) 2号機原子炉建屋排気設備 (排気フィルタ入口)		Ventilation facility of Unit 2 reactor bldg. (Outlet of exhaust gas filter) 2号機原子炉建屋排気設備 (排気フィルタ出口)				② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm ³)*
	From YY/MM/DD Time To YY/MM/DD Time		From YY/MM/DD Time To YY/MM/DD Time				
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)							
Cs-134 (Approx. 2 years)							
Cs-137 (Approx. 30 years)							
Mn-54 (Approx. 310 days)							
Co-60 (Approx. 5 years)							
Nb-95 (Approx. 35 days)							
Tc-99m (Approx. 6 hrs)							
Ru-106 (Approx. 370 days)							
Ag-110m (Approx. 250 days)							
Sb-125 (Approx. 3 yrs)							
Te-129 (Approx. 70 mins)							
Te-129m (Approx. 34 days)							
I-132 (Approx. 2 hrs)							
Te-132 (Approx. 78 hrs)							
I-133 (Approx. 21 hrs)							
Cs-136 (Approx. 13 days)							
Ba-140 (Approx. 13 days)							
La-140 (Approx. 40 hrs)							

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

* O.OE—O is the same as O.O x 10^{-O}

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

* "ND" indicates that the measurement result is below the detection limit.

Detection limits for Ventilation facility of Unit 2 reactor bldg. (Opening of exhaust gas filter) are as follows:

(The value shown below is approximate)

For Volatile radioactive materials: I-131: OE-OBq/cm³, Cs-134: OE-OBq/cm³, and Cs-137 is OE-OBq/cm³

For Particle radioactive materials: I-131: OE-OBq/cm³

Detection limits for Ventilation facility of Unit 2 reactor bldg. (Outlet of exhaust gas filter) are as follows:

(The value shown below is approximate)

For Volatile radioactive materials: I-131: OE-OBq/cm³, Cs-134: OE-OBq/cm³, and Cs-137 is OE-OBq/cm³

For Particle radioactive materials: I-131: OE-OBq/cm³, Cs-134: OE-OBq/cm³, and Cs-137 is OE-OBq/cm³