

The result of the nuclide analysis of radioactive materials in the air at the site of Fukushima Daiichi Nuclear Power Station

The result of the nuclide analysis of radioactive materials in the air at the site of Fukushima Daiichi Nuclear Power Station is as follows.

March 26th Corrected version

1. Conditions of collection and measurement

Collection of sample	Place	Fukushima Daiichi: Main gate		
	Date	3/25		
	Manner of	Collecting dust by monitoring cars		
	Wind direction & speed	NNW 0.7m/s (as of 2:20 am)		
Measurement of sample	Date	3/25 13:38 ~		
	Measuring	Brought the sample to Fukushima Daiichi Nuclear Power Station and analyzed it by the analysis device of Germanium semi-conductor type nuclide		
	Measuring time	500s		

2. Result

Data collected on March 26th

	Nuclide	Collected on March 22nd			Collected on March 23rd						Density limit in the air to workers engaged in
		Radioactivity density (Bq/cm ³)	Detection limit density (Bq/cm ³)	Ratio to density limit in the air (/)	Radioactivity density (Bq/cm ³)	Detection limit density (Bq/cm ³)	Ratio to density limit in the air (/)				
Volatile characteristics	Co-58	ND	-	-							1.0E-02
	I-131	8.8E-04	2.1E-05	0.88							1.0E-03
	I-132	ND	-	-							7.0E-02
	I-133	ND	-	-							5.0E-03
	Cs-134	3.2E-05	1.7E-05	0.02							2.0E-03
	Cs-137	2.4E-05	1.8E-05	0.01							3.0E-03
Particulate characteristics	Co-58	ND	-	-							1.0E-02
	I-131	3.2E-04	1.1E-05	0.32							1.0E-03
	I-132	ND	-	-							7.0E-02
	Cs-134	1.6E-05	9.5E-06	0.01							2.0E-03
	Cs-136	ND	-	-							1.0E-02
	Cs-137	1.6E-05	9.2E-06	0.01							3.0E-03
Other detected nuclide	Zr-95	ND	-	-							8.0E-02
	Ru-105	3.1E-04	4.4E-05	0.00							8.0E-02
	Te-129	ND	-	-							4.0E-01
	Te-129m	ND	-	-							4.0E-03
	Te-132	8.2E-05	1.0E-05	0.01							7.0E-03

Statutory density limit to the 3-month average density of radioactive nuclide contained in the air that humans breathe