

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

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

1 . Conditions of collection and measurement

Collection of sample	Place	Fukushima Daini MP - 1	Fukushima Daini MP - 1		
	Date	3/21 10:40 ~ 10:50	3/21 18:11 ~ 18:19		
	Manner of Collection	Collecting dust by monitoring cars	Collecting dust by monitoring cars		
	Wind direction & speed	-	-		
Measurement of sample	Date	3/21 12:15 ~	3/21 19:00 ~		
	Measuring method	Analyzed by the analysis device of Germanium semi-conductor type nuclide	Analyzed by the analysis device of Germanium semi-conductor type nuclide		
	Measuring time	500s	500s		

2 . Result

(Data are collected on March 22nd)

	Nuclide	Collected on March 21st - 1			Collected on March 21st - 2			Radioactivity density (Bq/cm3)	Detection limit density (Bq/cm3)	Ratio to density limit in the air ( / )	Radioactivity density (Bq/cm3)	Detection limit density (Bq/cm3)	Ratio to density limit in the air ( / )	Density limit in the air to workers engaged in tasks associated with radiation
		Radioactivity density (Bq/cm3)	Detection limit density (Bq/cm3)	Ratio to density limit in the air ( / )	Radioactivity density (Bq/cm3)	Detection limit density (Bq/cm3)	Ratio to density limit in the air ( / )							
Volatile characteristics	I-131	2.250E-04	1.687E-05	0.23	1.580E-04	1.931E-05	0.16							1.0E-03
	I-132	2.420E-04	2.401E-05	0.003	8.097E-04	1.937E-05	0.01							7.0E-02
	I-133	ND	-	-	ND	-	-							5.0E-03
Particulate characteristics	Co-58	1.065E-05	1.138E-05	0.001	1.341E-05	9.886E-06	0.00							1.0E-02
	Cs-134	4.410E-05	9.294E-06	0.02	3.017E-05	1.005E-05	0.02							2.0E-03
	Cs-136	ND	-	-	ND	-	-							1.0E-02
	Cs-137	4.711E-05	7.959E-06	0.02	3.306E-05	9.703E-06	0.01							3.0E-03

Statutory density limit to the 3-month average density of radioactive nuclide contained in the air that humans breathe  
X.XE - X means X.X x 10 - x