

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 Daini Nuclear Power Station is as follows.

1 . Conditions of collection and measurement

Collection of sample	Place	Fukushima Daini MP-2	Fukushima Daini MP-2	Fukushima Daini MP-2	Fukushima Daini MP-2
	Date	3/22 10:02 ~ 10:10	3/22 16:43 ~ 16:51	3/23 9:40 ~ 9:48	3/23 16:06 ~ 16:14
	Manner of Collection	Collecting dust by monitoring cars	Collecting dust by monitoring cars	Collecting dust by monitoring cars	Collecting dust by monitoring cars
	Wind direction & speed	-	-	-	-
Measurement of sample	Date	3/22 11:53 ~	3/22 17:32 ~	3/23 14:17 ~	3/23 17:38 ~
	Measuring method	Germanium semi-conductor type nuclide analysis	Germanium semi-conductor type nuclide analysis	Germanium semi-conductor type nuclide analysis	Germanium semi-conductor type nuclide analysis
	Measuring time	500 s	500 s	500 s	500 s

2 . Result

(Data are collected on March 24th)

	Nuclide	Collected on March 22nd -			Collected on March 22nd -			Collected on March 23rd -			Collected on March 23rd -			Density limit in the air to workers engaged in tasks associated with radiation
		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	I-131	1.4E-04	2.3E-05	0.14	1.3E-04	2.2E-05	0.13	2.7E-04	3.9E-05	0.27	2.1E-04	1.4E-05	0.21	1.0E-03
	I-132	ND	-	-	ND	-	-	2.8E-04	2.2E-04	0.00	2.8E-04	2.8E-05	0.00	7.0E-02
	I-133	ND	-	-	ND	-	-	ND	-	-	ND	-	-	5.0E-03
Particulate characteristics	Co-58	ND	-	-	ND	-	-	ND	-	-	ND	-	-	1.0E-02
	Cs-134	1.3E-05	9.5E-06	0.01	1.4E-05	9.8E-06	0.01	ND	-	-	1.7E-05	8.5E-06	0.01	2.0E-03
	Cs-136	ND	-	-	ND	-	-	ND	-	-	3.7E-06	5.2E-06	0.00	1.0E-02
	Cs-137	1.0E-05	8.8E-06	0.00	1.4E-05	8.4E-06	0.00	ND	-	-	1.7E-05	6.9E-06	0.01	3.0E-03
Other detected nuclide	Te-129	2.3E-03	1.8E-03	0.01	ND	-	-	ND	-	-	9.3E-04	2.6E-04	0.00	4.0E-01
	Te-132	2.2E-05	1.6E-05	0.00	ND	-	-	1.6E-04	2.2E-05	0.02	7.1E-04	6.5E-06	0.10	7.0E-03
	Ru-106	ND	-	-	ND	-	-	ND	-	-	8.2E-05	5.7E-05	0.14	6.0E-04

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