

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 at the site of Fukushima Daini 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	3/26 10:52~10:59	3/26 16:22~16:29		
	Manner of Collection	Collecting dust by monitoring cars	Collecting dust by monitoring cars		
	Wind direction & speed	-	-		
Measurement of sample	Date	3/26 12:35~	3/26 19:19~		
	Measuring method	Germanium semi-conductor type nuclide analysis	Germanium semi-conductor type nuclide analysis		
	Measuring time	500 s	500 s		

2. Result

	Nuclide	Collected on March 26th - ①			Collected on March 19th - ②						③Density limit in the air to workers engaged in tasks associated with radiation (Bq/cm3)※
		①Radioactivity density (Bq/cm3)	②Detection limit density (Bq/cm3)	Ratio to density limit in the air (①/③)	①Radioactivity density (Bq/cm3)	②Detection limit density (Bq/cm3)	Ratio to density limit in the air (①/③)				
Volatile characteristics	Co-58	ND	-	-	ND	-	-				1.0E-02
	I-131	1.0E-04	1.3E-05	0.10	1.6E-04	3.4E-05	0.16				1.0E-03
	I-132	1.6E-04	2.4E-05	0.00	ND	-	-				7.0E-02
	I-133	ND	-	-	ND	-	-				5.0E-03
	Cs-134	1.3E-05	1.3E-05	0.01	ND	-	-				2.0E-03
	Cs-137	1.6E-05	1.0E-05	0.01	ND	-	-				3.0E-03
Particulate characteristics	Co-58	ND	-	-	ND	-	-				1.0E-02
	I-131	8.4E-05	1.7E-05	0.08	8.8E-04	1.7E-04	0.88				1.0E-03
	I-132	ND	-	-	ND	-	-				7.0E-02
	Cs-134	1.8E-05	1.6E-05	0.01	1.8E-04	1.6E-04	0.09				2.0E-03
	Cs-136	ND	-	-	ND	-	-				1.0E-02
	Cs-137	1.7E-05	1.6E-05	0.01	2.1E-04	1.6E-04	0.07				3.0E-03
Other detected nuclide	Te-129	5.9E-04	3.4E-04	0.00	ND	-	-				4.0E-01
	Te-129m	4.1E-04	2.4E-04	0.10	ND	-	-				4.0E-03
	Te-132	2.3E-04	8.4E-06	0.03	3.5E-04	3.0E-05	0.05				7.0E-03

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

※ X.XE-X means $X.X \times 10^{-x}$