## 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 in the site of Fukushima Daiichi Nuclear Power Station is as follows.

## 1. Conditions of collection and measurement

Collection of sample	Place	Fukushima Daiichi: Main gate								
	Date	3/22 1:10 ~ 1:30	3/23 2:01 ~ 2:21							
	Manner of Collection	Collecting dust by monitoring cars								
	Wind direction & speed	W 0.5m/s (as of 1:10)	N 3.2m/s (as of 2:20)							
Measurement of sample	Date	3/22 14:50 ~	3/23 14:54 ~							
		bringing the sample to Fukushima Daini Nuclear Power Station and analyzing it by the analysis device of Germanium semi- conductor type nuclide								
	Measuring time	500 s								

## 2 . Result (Data are collected on March 24th)

		Collected on March 22nd			Collected on March 23rd					Density limit in the air to workers
	Nuclide	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			engaged in tasks associated with radiation (Bq/cm3)
Volatile characteristics	I-131	2.2E-03	1.6E-05	2.24	6.7E-04	9.6E-06	0.67			1.0E-03
	I-132	ND	-	-	ND	-	-			7.0E-02
	I-133	ND	-	-	ND	-	-			5.0E-03
	Co-58	ND	-	-	5.1E-06	5.1E-06	0.00			1.0E-02
Particulate characteristics	Cs-134	1.6E-05	5.9E-06	0.01	1.7E-05	4.2E-06	0.01			2.0E-03
	Cs-136	ND	-	-	3.0E-06	2.7E-06	0.00			1.0E-02
	Cs-137	1.9E-05	5.3E-06	0.01	1.3E-05	4.2E-06	0.00			3.0E-03
Other detected nuclide	Te-129	ND	-	-	2.3E-01	1.2E-01	0.58			4.0E-01
	Te-132	6.7E-05	1.1E-05	0.01	4.3E-04	4.5E-06	0.06	_		7.0E-03
	Ce-144	ND	-	-	1.3E-03	3.7E-04	1.89			7.0E-04

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