



**【Definite Report】 Nuclide analysis results of ocean soil < 1/2 >**

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)	Around South Discharge Channel of 1F ( 1-4u Discharge Channel)	Around North Discharge Channel of 2F ( Around 3,4u Discharge Channel) ( approx. 10 km from 1F )	Around Iwasawa Shore of 2F ( approx. 7 km south of 1,2u Discharge Channel) ( approx. 16 km from 1F )	Iwasawa offshore 3km
Time of Sampling	Mar 01, 2012 09:10 am	Mar 01, 2012 09:35 am	Mar 01, 2012 (Not sampled)	Mar 01, 2012 08:05 am	Mar 01, 2012 (Not sampled)
Detected Nuclides (Half-life)	Radioactivity density ( Bq/kg · moist soil)				
I-131 (about 8 days)	ND	ND	-	ND	-
Cs-134 (about 2 years)	690	620	-	130	-
Cs-137 (about 30 years)	930	830	-	170	-
Mn-54 (approx.310 days)	ND	5.7	-	ND	-
Co-60 (approx.5 years)	ND	ND	-	ND	-
Tc-99m (approx.6 hours)	ND	ND	-	ND	-
Ag-110m (approx.250 days)	ND	ND	-	ND	-
Sb-125 (approx.3 years)	ND	ND	-	ND	-
Te-129 (approx.70 minutes)	ND	ND	-	ND	-
Te-129m (approx.34 days)	ND	ND	-	ND	-
Cs-136 (approx.13 days)	ND	ND	-	ND	-
Ba-140 (approx.13 days)	ND	ND	-	ND	-
La-140 (approx.40 hours)	ND	ND	-	ND	-

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: I-131: approx. 8Bq/kg· moist soil.  
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

【Definite Report】 Nuclide analysis results of ocean soil < 2/2 >

Place of Sampling	8km offshore of Iwasawa shore				
Time of Sampling	Mar 01, 2012 (Not sampled)				
Detected Nuclides (Half-life)	Radioactivity density ( Bq/kg· moist soil)				
I-131 (about 8 days)	-				
Cs-134 (about 2 years)	-				
Cs-137 (about 30 years)	-				
Mn-54 (approx.310 days)	-				
Co-60 (approx.5 years)	-				
Tc-99m (approx.6 hours)	-				
Ag-110m (approx.250 days)	-				
Sb-125 (approx.3 years)	-				
Te-129 (approx.70 minutes)	-				
Te-129m (approx.34 days)	-				
Cs-136 (approx.13 days)	-				
Ba-140 (approx.13 days)	-				
La-140 (approx.40 hours)	-				

【Definite Report】 Nuclide analysis of radioactive materials in dropping in and out of Fukushima Daiichi Nuclear Power Station

Place of Sampling	Environment Monitoring Building of Fukushima Daiichi NPS	Administrative building of Fukushima Daini NPS				
Time of Sampling	10:20 am Feb 01, 2012 ~ 11:20 am Mar 01, 2012	10:30 am Feb 01, 2012 ~ 11:00 am Mar 01, 2012				
Detected Nuclides (Half-life)	Radioactivity density ( Bq/m2)					
I-131 (about 8 days)	ND	ND				
Cs-134 (about 2 years)	930	200				
Cs-137 (about 30 years)	1,300	270				
Co-60 (approx.5 years)	ND	13				
Nb-95 (approx.35days)	ND	ND				
Tc-99m (approx.6 hours)	ND	ND				
Ag-110m (approx.250days)	ND	ND				
Te-129(approx.70 minutes)	ND	ND				
Te-129m (approx.34 days)	ND	ND				
I-132(approx.2 hours)	ND	ND				
Te-132 ( approx.78 hours )	ND	ND				
I-133(approx.21 hours)	ND	ND				
Cs-136 (approx.13 days)	ND	ND				
Ba-140 (approx.13 days)	ND	ND				
La-140 (approx.40 hours)	ND	ND				

\* Bq/m2 = MBq/km2

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: I-131: approx. 54Bq/m2.

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

**【 Definite Report 】 Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi <1/2>**

Place of Sampling	Unit 2 upside of reactor building ( Blow-out pannel of west-side of center )		Unit 2 upside of reactor building ( Blow-out pannel of north-side of center )		Unit 2 upside of reactor building ( Blow-out pannel of west-side of center )		Density limit in the air to workers engaged in tasks associated with radiation ( Bq/cm3 ) *
	Time of Sampling	Mar 07, 2012 8:45 am ~ 10:45 am	Mar 07, 2012 8:45 am ~ 10:45 am	Mar 07, 2012 11:00 am ~ 1:00 pm			
Detected Nuclides (Half-life)	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	1.3E-05	0.01	1.1E-05	0.01	1.4E-05	0.01	2E-03
Cs-137 (approx. 30 years)	1.8E-05	0.01	1.2E-05	0.00	1.9E-05	0.01	3E-03
Nb-95 (approx.35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (approx.6 hours)	ND	-	ND	-	ND	-	7E-01
Ru-106 (approx.370 days)	ND	-	ND	-	ND	-	6E-04
Ag-110m (approx.250 days)	ND	-	ND	-	ND	-	3E-03
Sb-125 (approx.3 years)	ND	-	ND	-	ND	-	6E-03
Te-129 (approx.70 minutes)	ND	-	ND	-	ND	-	4E-01
Te-129m (approx.34 days)	ND	-	ND	-	ND	-	4E-03
I-132(approx.2 hours)	ND	-	ND	-	ND	-	7E-02
Te-132 ( approx.78 hours )	ND	-	ND	-	ND	-	4E-03
I-133(approx.21 hours)	ND	-	ND	-	ND	-	5E-03
Cs-136 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
Ba-140 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
La-140 (approx.40 hours)	ND	-	ND	-	ND	-	1E-02

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

\* O.OE - O means O.O x 10-O

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: Volatile: I-131: approx. 5E-6Bq/cm3, Cs-134: approx. 7E-6Bq/cm3, Cs-137: approx. 8E-6Bq/cm3 Particulate: I-131: approx. 2E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

**【Definite Report】 Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi <2/2>**

Place of Sampling	Unit 2 upside of reactor building ( Blow-out pannel of north-side of center )						Density limit in the air to workers engaged in tasks associated with radiation ( Bq/cm3 ) *
	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	
Time of Sampling	Mar 07, 2012 11:00 am ~ 1:00 pm						
Detected Nuclides (Half-life)							
I-131 (approx. 8 days)	ND	-					1E-03
Cs-134 (approx. 2 years)	2.5E-05	0.01					2E-03
Cs-137 (approx. 30 years)	3.1E-05	0.01					3E-03
Nb-95 (approx.35 days)	ND	-					2E-02
Tc-99m (approx.6 hours)	ND	-					7E-01
Ru-106 (approx.370 days)	ND	-					6E-04
Ag-110m (approx.250 days)	4.1E-06	0.00					3E-03
Sb-125 (approx.3 years)	ND	-					6E-03
Te-129 (approx.70 minutes)	ND	-					4E-01
Te-129m (approx.34 days)	ND	-					4E-03
I-132(approx.2 hours)	ND	-					7E-02
Te-132 ( approx.78 hours )	ND	-					4E-03
I-133(approx.21 hours)	ND	-					5E-03
Cs-136 (approx.13 days)	ND	-					1E-02
Ba-140 (approx.13 days)	ND	-					1E-02
La-140 (approx.40 hours)	ND	-					1E-02

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

\* O.OE - O means O.O x 10-O

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: Volatile: I-131: approx. 3E-6Bq/cm3, Cs-134: approx. 7E-6Bq/cm3, Cs-137: approx. 8E-6Bq/cm3 Particulate: I-131: approx. 2E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

**【Definite Report】 Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi <1/2>**

Place of Sampling	Upside of Unit 3 reactor building (Northeast side in upper part of reactor(downward direction))		Upside of Unit 3 reactor building (Northeast side in upper part of reactor (Cross direction))		Upside of Unit 3 reactor building (Northeast side in upper part of reactor(downward direction))		Density limit in the air to workers engaged in tasks associated with radiation ( Bq/cm3 ) *
	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	
Time of Sampling	Mar 01, 2012 10:50 am ~ 11:20 am		Mar 01, 2012 10:50 am ~ 11:20 am		Mar 01, 2012 12:10 pm ~ 12:40 pm		
Detected Nuclides (Half-life)							
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	2.0E-05	0.01	4.8E-05	0.02	2.3E-05	0.01	2E-03
Cs-137 (approx. 30 years)	1.6E-05	0.01	2.0E-05	0.01	3.1E-05	0.01	3E-03
Nb-95 (approx.35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (approx.6 hours)	ND	-	ND	-	ND	-	7E-01
Ru-106 (approx.370 days)	ND	-	ND	-	ND	-	6E-04
Ag-110m (approx.250 days)	ND	-	ND	-	ND	-	3E-03
Sb-125 (approx.3 years)	ND	-	ND	-	ND	-	6E-03
Te-129 (approx.70 minutes)	ND	-	ND	-	ND	-	4E-01
Te-129m (approx.34 days)	ND	-	ND	-	ND	-	4E-03
I-132(approx.2 hours)	ND	-	ND	-	ND	-	7E-02
Te-132 ( approx.78 hours )	ND	-	ND	-	ND	-	4E-03
I-133(approx.21 hours)	ND	-	ND	-	ND	-	5E-03
Cs-136 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
Ba-140 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
La-140 (approx.40 hours)	ND	-	ND	-	ND	-	1E-02

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

\* O.OE - O means O.O x 10-O

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: Volatile: I-131: approx. 9E-6Bq/cm3, Cs-134: approx. 2E-5Bq/cm3, Cs-137: approx. 3E-5Bq/cm3 Particulate: I-131: approx. 6E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

**【Definite Report】 Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi <2/2>**

Place of Sampling	Upside of Unit 3 reactor building (Northeast side in upper part of reactor (Cross direction))		Upside of Unit 3 reactor building (Around machine hatch opening on 3rd floor)		Upside of Unit 3 reactor building (Around machine hatch opening on 3rd floor)		Density limit in the air to workers engaged in tasks associated with radiation ( Bq/cm3 ) *
	Time of Sampling Mar 01, 2012 12:10 pm ~ 12:40 pm		Time of Sampling Mar 01, 2012 9:00 am ~ 9:30 am		Time of Sampling Mar 01, 2012 9:55 ~ 10:25 am		
Detected Nuclides (Half-life)	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	density of sample ( Bq/cm3)	Scaling Factor ( / )	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	5.6E-04	0.28	1.7E-05	0.01	4.3E-05	0.02	2E-03
Cs-137 (approx. 30 years)	7.6E-04	0.25	1.9E-05	0.01	4.6E-05	0.02	3E-03
Nb-95 (approx.35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (approx.6hours)	ND	-	ND	-	ND	-	7E-01
Ru-106 (approx.370 days)	ND	-	ND	-	ND	-	6E-04
Ag-110m (approx.250 days)	4.2E-05	0.01	ND	-	ND	-	3E-03
Sb-125 (approx.3 years)	ND	-	ND	-	ND	-	6E-03
Te-129 (approx.70 minutes)	ND	-	ND	-	ND	-	4E-01
Te-129m (approx.34 days)	2.8E-04	0.07	ND	-	ND	-	4E-03
I-132(approx.2 hours)	ND	-	ND	-	ND	-	7E-02
Te-132 ( approx.78 hours )	ND	-	ND	-	ND	-	4E-03
I-133(approx.21 hours)	ND	-	ND	-	ND	-	5E-03
Cs-136 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
Ba-140 (approx.13 days)	ND	-	ND	-	ND	-	1E-02
La-140 (approx.40 hours)	ND	-	ND	-	ND	-	1E-02

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

\* O.OE - O means O.O x 10-O

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

The detection limits of major three nuclide that are not detected are as follows: Volatile: I-131: approx. 9E-6Bq/cm3, Cs-134: approx. 2E-5Bq/cm3, Cs-137: approx. 3E-5Bq/cm3 Particulate: I-131: approx. 9E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.