

Results of Nuclide Analysis of Radioactive Materials in the Air
at the Sites of Fukushima Daiichi Nuclear Power Station <1/2>

Reference

(Data Summarized on July 25)

Place of sampling	North side slope of Fukushima Daiichi, Unit 1		West side slope of Fukushima Daiichi, Unit 1 and 2		West side slope of Fukushima Daiichi, Unit 3 and 4		②Density limit by the announcement of Reactor Regulation (Bq/cm ³) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)※2
	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	
Date and time of sampling	10:52am ~ 1:52pm ※3 July 22, 2011		10:43am ~ 1:43pm ※3 July 22, 2011		10:34am ~ 1:34pm ※3 July 22, 2011		
Detected nuclide (half-life)							
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	ND	-	ND	-	1.1E-05	0.01	2E-03
Cs-137 (approx. 30 years)	ND	-	ND	-	1.3E-05	0.00	3E-03

※1 The value of Radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density

○.OE-○ means ○.○ x 10^{-○}

※2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

※3 It took more than 1 hour due to using low flow rate dust sampler (approx 5l/min)

<reference>The flow rate of dust sampler that we are using at west gate is approx 40l/min

※4

※ ND means that the detected amount is below the detection limit in this analysis.

The detection limit of the main 3 nuclides are as follows:

(Volatile: I-131: approx. 4E-6Bq/cm³, Cs-134: approx. 1E-5Bq/cm³ Cs-137: approx. 1E-5Bq/cm³)

(particulate: I-131: approx. 2E-6Bq/cm³, Cs-134: approx. 5E-6Bq/cm³ Cs-137: approx. 6E-6Bq/cm³)

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

Results of Nuclide Analysis of Radioactive Materials in the Air
at the Sites of Fukushima Daiichi Nuclear Power Station <2/2>

Reference

(Data Summarized on July 25)

Place of sampling	MP-1, Fukushima Daiichi		MP-3, Fukushima Daiichi		MP-8, Fukushima Daiichi		②Density limit by the announcement of Reactor Regulation (Bq/cm ³) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)※2
Date and time of sampling	10:15am ~ 1:15pm ※3 July 23, 2011		10:35am ~ 1:35pm ※3 July 23, 2011		10:45am ~ 1:45pm ※3 July 23, 2011		
Detected nuclide (half-life)	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	①Radioactivity density※1 (Bq/cm ³)	Scaling factor (①/②)	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (approx. 30 years)	ND	-	ND	-	ND	-	3E-03

※1 The value of Radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density

○.OE-○ means ○.○ x 10^{-○}

※2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

※3 It took more than 1 hour due to using low flow rate dust sampler (approx 5ℓ/min)

<reference>The flow rate of dust sampler that we are using at west gate is approx 40ℓ/min

※4

ND means that the detected amount is below the detection limit in this analysis.

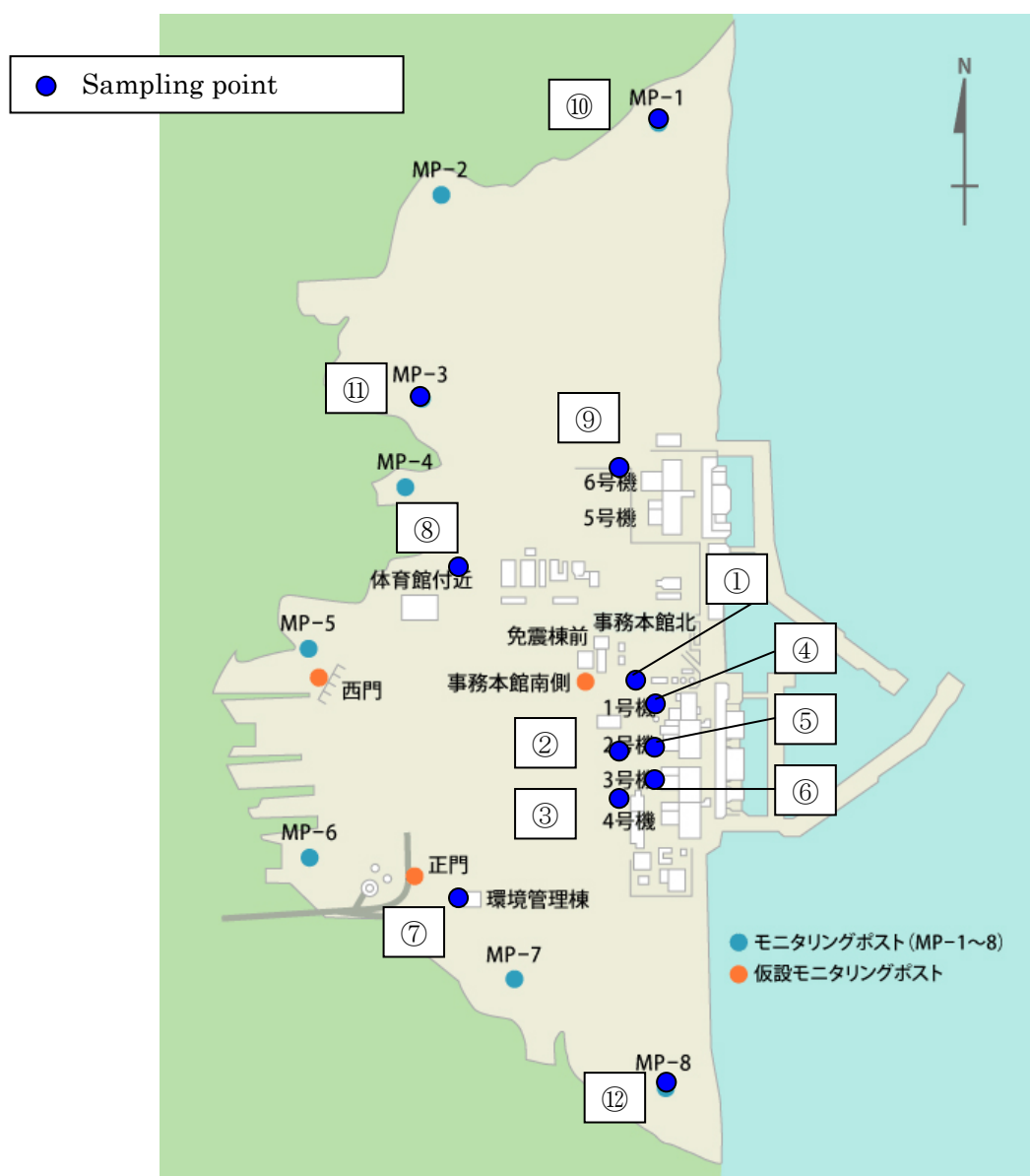
The detection limit of the main 3 nuclides are as follows:

(Volatile: I-131: approx. 3E-6Bq/cm³, Cs-134: approx. 9E-6Bq/cm³ Cs-137: approx. 1E-5Bq/cm³)

(particulate: I-131: approx. 2E-6Bq/cm³, Cs-134: approx. 6E-6Bq/cm³ Cs-137: approx. 6E-6Bq/cm³)

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

Diagram of dust sampling point



No.	Name of surveyed point	No.	Name of surveyed point
①	Above the slope on the north of Unit 1	⑦	Front of the environment administration office
②	Above the slope on the west of Unit 1 and 2	⑧	Front of Water Treatment Building
③	Above the slope on the west of Unit 3 and 4	⑨	Front of the switching station of Unit 5 and 6
④	Mountain side of Unit 1	⑩	MP - 1
⑤	Mountain side of Unit 2	⑪	MP - 3
⑥	Mountain side of Unit 3	⑫	MP - 8