Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on September 1 - 15, 2012)

< Legend > — : γ nuclides except for the major 3 nuclides (I-131, Cs-134, Cs-137) were not detected. ⇒ Please refer to the preliminary reports for the result of the major nuclides.

 \bigcirc : γ nuclides other than the major 3 nuclides (I-131, Cs-134, Cs-137) were detected. \Rightarrow Please refer to the following pages.

/ : Not applicable or cancelled due to the bad weather

Announcement Date of the Preliminary Report	September															
Sampling Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	$\overline{}$
Nuclides Analysis Result of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations	_	_			_	_	_	ı	1	_	ı	1	_	1	_	$\overline{\hspace{1em}}$
Nuclides Analysis Result of the Radioactive Materials in the Air at the Sea Side of Fukushima Nuclear Power Stations							_							ı		
Nuclides Analysis Result of Radioactive Materials in the Seawater < Coast >	_	-	_	_	_	_	_	_	-	_	ı	-	_	I	_	
Nuclides Analysis Result of the Radioactive Materials in the Seawater of the Port	_	_	_	_	_	_		-	-		ı	1		1	_	
Nuclides Analysis Result of the Sub-drain of Fukushima Daiichi NPS	_			_		_		-			ı				_	$\overline{}$
Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility	_	_	_	_	_	-	_	_	_	_	-	_	_	_	_	$\overline{}$
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >								_	$\overline{}$			/				$\overline{}$
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 1 Reactor Building)											ı			_		$\overline{}$
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 2 Reactor Building)											ı					$\overline{}$
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 3 Reactor Building)											ı					$\overline{}$
Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS (Unit 3 Waste Treatment Building Opening)											_	$\overline{/}$		$\overline{/}$		$\overline{/}$
Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS				0					/			/		$\overline{/}$		$\overline{/}$

[Definite Report] Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<1/3>

Place of Sampling	Shared Facili	xiliary Operation ty (Around the e Hatch)	Shared Facility (xiliary Operation (In Fornt of South airs)	Shared Facility	xiliary Operation (In Fornt of North airs)	② Density Limit in the Air for Workers	
Time of Sampling		3/27 8:54 AM 28 9:25 AM		8/27 8:57 AM 28 9:31 PM	From 2012/8/2 To 2012/8/2	to Engage in Radiation Related		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm³)	Scaling Factor (1/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1/2)	Tasks (Bq/cm ³)*	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03	
Cs-134 (Approx. 2 years)	2.1E-07	0.00	1.4E-07	0.00	1.9E-07	0.00	2E-03	
Cs-137 (Approx. 30 years)	3.9E-07	0.00	2.0E-07	0.00	2.5E-07	0.00	3E-03	
Mn-54 (Approx. 310 days)	2.5E-08	0.00	ND	-	ND	-	2E-02	
Co-60 (Approx. 5 years)	1.3E-07	0.00	3.3E-08	0.00	ND	-	1E-03	
Nb-95 (Approx. 35 days)	ND	-	ND	-	ND	-	2E-02	
Tc-99m (Approx. 6 hrs)	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 yrs)	ND	-	ND	-	ND	-	6E-03	
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	4E-01	
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	4E-03	
I-132 (Approx. 2 hrs)	ND	-	ND	-	ND	-	7E-02	
Te-132 (Approx. 78 hrs)	ND	-	ND	-	ND	-	4E-03	
I-133 (Approx. 21 hrs)	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 hrs)	ND	-	ND	-	ND	-	1E-02	

^{*} The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

The detection limits are as follows.

Volatile: I-131: Approx. 5E-8Bq/cm³, Cs-134: Approx. 1E-7Bq/cm³, Cs-137: Approx. 2E-7Bq/cm³

Particulate: I-131: Approx. 4E-8Bq/cm³

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

 $^{^{*}}$ O.OE – O is the same as O.O x 10 $^{-0}$

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<2/3>

Place of Sampling	Shared Facili	xiliary Operation ty (Around the e Hatch)	Shared Facility (xiliary Operation In Fornt of South airs)	3rd Floor of Au Shared Facility Sta	② Density Limit in	
Time of Sampling		3/28 9:29 AM 29 9:20 AM		3/28 9:35 AM 29 9:26 AM	From 2012/8/ To 2012/8/	to Engage in Radiation Related	
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm³)	Scaling Factor (1)/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1)/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1/2)	Tasks (Bq/cm ³)*
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	2.6E-07	0.00	1.5E-07	0.00	2.4E-07	0.00	2E-03
Cs-137 (Approx. 30 years)	4.1E-07	0.00	2.2E-07	0.00	3.5E-07	0.00	3E-03
Mn-54 (Approx. 310 days)	1.3E-07	0.00	ND	-	1.9E-07	0.00	2E-02
Co-60 (Approx. 5 years)	3.6E-07	0.00	1.0E-07	0.00	4.5E-07	0.00	1E-03
Nb-95 (Approx. 35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (Approx. 6 hrs)	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 yrs)	ND	-	ND	-	ND	-	6E-03
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	4E-01
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	4E-03
I-132 (Approx. 2 hrs)	ND	-	ND	-	ND	-	7E-02
Te-132 (Approx. 78 hrs)	ND	-	ND	-	ND	-	4E-03
I-133 (Approx. 21 hrs)	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 hrs)	ND		ND	-	ND	-	1E-02

^{*} The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

The detection limits are as follows.

Volatile: I-131: Approx. 5E-8Bq/cm³, Cs-134: Approx. 1E-7Bq/cm³, Cs-137: Approx. Approx. 1E-7Bq/cm³

Particulate: I-131: Approx. 4E-8Bq/cm³

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

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[Definite Report] Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<3/3>

Place of Sampling	Shared Facili	xiliary Operation ty (Around the e Hatch)	Shared Facility (xiliary Operation In Fornt of South airs)	3rd Floor of Au Shared Facility (Sta	② Density Limit in		
Time of Sampling		3/29 9:24 AM 30 9:31 AM		3/29 9:29 AM 30 9:36 AM	From 2012/8/ To 2012/8/	to Engage in Radiation Related		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm³)	Scaling Factor (1)/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1)/2)	①Density of Sample (Bq/cm³)	Scaling Factor (1)/2)	Tasks (Bq/cm ³)*	
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Cs-137 (Approx. 30 years)	3.8E-07	0.00	6.4E-07	0.00	3.8E-07	0.00	3E-03	
Mn-54 (Approx. 310 days)	6.6E-08	0.00	ND	-	7.2E-08	0.00	2E-02	
Co-60 (Approx. 5 years)	3.4E-07	0.00	5.4E-08	0.00	1.4E-07	0.00	1E-03	
Nb-95 (Approx. 35 days)	ND	-	ND	-	ND	-	2E-02	
Tc-99m (Approx. 6 hrs)	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 yrs)	ND	-	ND	-	ND	-	6E-03	
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	4E-01	
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	4E-03	
I-132 (Approx. 2 hrs)	ND	-	ND	-	ND	-	7E-02	
Te-132 (Approx. 78 hrs)	ND	-	ND	-	ND	-	4E-03	
I-133 (Approx. 21 hrs)	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 hrs)	ND	-	ND	-	ND	-	1E-02	

^{*} The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

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Particulate: I-131: Approx. 4E-8Bq/cm³

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