

The results of sampling surveys gas management system
in primary containment vessel
(Unit 2, Fukushima Daiichi Nuclear Power Station)

November 10, 2011
Tokyo Electric Power Company

[Place of sampling] The entrance of gas management system in primary containment vessel
(Unit 2, Fukushima Daiichi Nuclear Power Station)

[Time of sampling] At 3:38pm on November 9, 2011

[Results of sampling]

Nuclide		Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Vial	I-131	ND	1.3×10^{-1}	Approx. 8 days
	Cs-134	ND	3.3×10^{-1}	Approx. 2 years
	Cs-137	ND	3.8×10^{-1}	Approx. 30 years
	Kr-85	8.8×10^1	2.6×10^1	Approx. 11 years
	Xe-131m	ND	3.1×10^0	Approx. 12 days
	Xe-133	ND	2.7×10^{-1}	Approx. 5 days
	Xe-135	ND	1.1×10^{-1}	Approx. 9 hours

The results of sampling surveys gas management system
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November 10, 2011
Tokyo Electric Power Company

[Place of sampling] The exit of gas management system in primary containment vessel
(Unit 2, Fukushima Daiichi Nuclear Power Station)

[Time of sampling] At 3:11 pm on November 9, 2011

[Results of sampling]

Nuclide		Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Vial	I-131	ND	1.3×10^{-1}	Approx. 8 days
	Cs-134	ND	3.3×10^{-1}	Approx. 2 years
	Cs-137	4.9×10^{-1}	3.8×10^{-1}	Approx. 30 years
	Kr-85	2.8×10^2	2.8×10^1	Approx. 11 years
	Xe-131m	ND	3.3×10^0	Approx. 12 days
	Xe-133	ND	3.1×10^{-1}	Approx. 5 days
	Xe-135	ND	1.0×10^{-1}	Approx. 9 hours

* Be used as a reference because the value of Radioactivity Density at the exit shows a higher level than at the entrance

The results of sampling surveys gas management system in primary containment vessel

(Unit 2, Fukushima Daiichi Nuclear Power Station)

[Place of sampling] The dust radiation monitor of gas management system
in primary containment vessel (Unit 2, Fukushima Daiichi Nuclear Power Station)

November 10, 2011

[Time of sampling] November 9, 2011 at 2:40pm ~ 2:50pm (particle filter)

Tokyo Electric

at 2:52pm ~ 3:22pm (charcoal filter)

Power Company

	Nuclide	Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Particle filter	I-131	ND	3.0×10^{-6}	Approx. 8 days
	Cs-134	2.0×10^{-5}	7.9×10^{-6}	Approx. 2 years
	Cs-137	2.9×10^{-5}	8.4×10^{-6}	Approx. 30 years

	Nuclide	Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Charcoal filter	I-131	ND	4.5×10^{-6}	Approx. 8 days
	Cs-134	ND	4.2×10^{-6}	Approx. 2 years
	Cs-137	6.2×10^{-6}	4.6×10^{-6}	Approx. 30 years
	Kr-85	2.8×10^2	4.6×10^{-1}	Approx. 11 years
	Xe-131m	2.9×10^{-1}	9.4×10^{-2}	Approx. 12 days
	Xe-133	ND	8.5×10^{-3}	Approx. 5 days
	Xe-135	1.1×10^{-2}	2.6×10^{-3}	Approx. 9 hours

*The radioactivity density and the detection limits of rare gases, such as Kr-85, Xe-131m, Xe-133, Xe-135, were calculated from capture rate of rare gases for charcoal filter by vial.

Ref: before calculated from capture rate of rare gases

<u>Nuclide</u>	<u>Radioactivity Density (Bq/cm³)</u>	<u>Detection Limits (Bq/cm³)</u>
Kr-85	4.8×10^{-1}	7.9×10^{-4}
Xe-131m	4.9×10^{-4}	1.6×10^{-4}
Xe-133	ND	1.5×10^{-5}
Xe-135	1.9×10^{-5}	4.5×10^{-6}

The results of sampling surveys gas management system in primary containment vessel
(Unit 2, Fukushima Daiichi Nuclear Power Station) **<Reference>**

[Place of sampling] The dust radiation monitor of gas management system in primary containment vessel (Unit 2, Fukushima Daiichi Nuclear Power Station) November 10, 2011
 [Time of sampling] November 1, 2011 at 1:51pm ~ 2:20pm (particle filter) Tokyo Electric Power Company
 at 2:20pm ~ 2:32pm (charcoal filter)

	Nuclide	Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Particle filter	I-131	ND	2.2×10^{-6}	Approx. 8 days
	Cs-134	2.3×10^{-5}	5.8×10^{-6}	Approx. 2 years
	Cs-137	3.6×10^{-5}	6.1×10^{-6}	Approx. 30 years

	Nuclide	Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Charcoal filter	I-131	ND	4.2×10^{-6}	Approx. 8 days
	Cs-134	4.6×10^{-6}	3.6×10^{-6}	Approx. 2 years
	Cs-137	6.6×10^{-6}	4.1×10^{-6}	Approx. 30 years
	Kr-85	6.8×10^2	1.2×10^0	Approx. 11 years
	Xe-131m	1.1×10^0	2.1×10^{-1}	Approx. 12 days
	Xe-133	2.2×10^{-2}	2.1×10^{-2}	Approx. 5 days
	Xe-135	1.9×10^{-2}	6.4×10^{-3}	Approx. 9 hours

*The radioactivity density and the detection limits of rare gases, such as Kr-85, Xe-131m, Xe-133, Xe-135, were calculated from capture rate of rare gases for charcoal filter by vial.

Ref: before calculated from capture rate of rare gases for public on Nov. 2.

<u>Nuclide</u>	<u>Radioactivity Density (Bq/cm³)</u>	<u>Detection Limits (Bq/cm³)</u>
Kr-85	4.4×10^{-1}	7.6×10^{-4}
Xe-131m	6.9×10^{-4}	1.3×10^{-4}
Xe-133	1.4×10^{-5}	1.3×10^{-5}
Xe-135	1.2×10^{-5}	4.1×10^{-6}

The results of sampling surveys gas management system in primary containment vessel
(Unit 2, Fukushima Daiichi Nuclear Power Station) **<Reference>**
Remeasurement for sampling on Nov. 1

November 10, 2011
Tokyo Electric
Power Company

[Place of sampling] The dust radiation monitor of gas management system
in primary containment vessel (Unit 2, Fukushima Daiichi Nuclear Power Station)

[Time of sampling] At 1:51pm ~ 2:20pm on November 1, 2011

Nuclide		Radioactivity Density (Bq/cm ³)	Detection Limits (Bq/cm ³)	Half-life
Charcoal filter	I-131	ND	1.8×10^{-6}	Approx. 8 days
	Cs-134	ND	3.8×10^{-6}	Approx. 2 years
	Cs-137	5.3×10^{-6}	4.2×10^{-6}	Approx. 30 years
	Kr-85	5.7×10^0	4.9×10^{-1}	Approx. 11 years
	Xe-131m	8.2×10^{-1}	6.5×10^{-2}	Approx. 12 days
	Xe-133	1.0×10^{-2}	5.3×10^{-3}	Approx. 5 days
	Xe-135	2.0×10^{-2}	8.4×10^{-3}	Approx. 9 hours

*The radioactivity density and the detection limits of rare gases, such as Kr-85, Xe-131m, Xe-133, Xe-135, were calculated from capture rate of rare gases for charcoal filter by vial.

Ref: before calculated from capture rate of rare gases for public on Nov. 2.

<u>Nuclide</u>	<u>Radioactivity Density (Bq/cm³)</u>	<u>Detection Limits (Bq/cm³)</u>
Kr-85	3.6×10^{-3}	3.1×10^{-4}
Xe-131m	5.3×10^{-4}	4.2×10^{-5}
Xe-133	6.5×10^{-6}	3.4×10^{-6}
Xe-135	1.3×10^{-5}	5.4×10^{-6}

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November 10, 2011
Tokyo Electric
Power Company

[Place of sampling] The dust radiation monitor of gas management system
in primary containment vessel (Unit 2, Fukushima Daiichi Nuclear Power Station)

[Time of sampling] At 11:59am ~ 12:29pm on November 2, 2011

	Nuclide	Radioactivity Density(Bq/cm ³)	Detection Limits(Bq/cm ³)	Half-life
Charcoal filter	I-131	ND	4.4×10^{-6}	Approx.8 days
	Cs-134	7.9×10^{-6}	3.6×10^{-6}	Approx.2 years
	Cs-137	ND	4.0×10^{-6}	Approx.30 years
	Kr-85	8.3×10^2	1.1×10^0	Approx.11 years
	Xe-131m	9.5×10^{-1}	2.5×10^{-1}	Approx.12 days
	Xe-133	ND	2.4×10^{-2}	Approx.5 days
	Xe-135	2.7×10^{-2}	6.8×10^{-3}	Approx.9 hours

*The radioactivity density and the detection limits of rare gases, such as Kr-85,Xe-131m,Xe-133,Xe-135, were calculated from capture rate of rare gases for charcoal filter by vial.

Ref: before calculated from capture rate of rare gases for public on Nov. 2.

<u>Nuclide</u>	<u>Radioactivity Density(Bq/cm³)</u>	<u>Detection Limits(Bq/cm³)</u>
Kr-85	5.3×10^{-1}	7.2×10^{-4}
Xe-131m	6.1×10^{-4}	1.6×10^{-4}
Xe-133	ND	1.5×10^{-5}
Xe-135	1.7×10^{-5}	4.3×10^{-6}