Result of sampling of gas inside the primary containment vessel of Unit 2 in Fukushima Daiichi Nuclear Power Station

November 2, 2011
Tokyo Electric Power Company

【Date of Sampling】 Tue. November 1, 2011
【Measurement Result】 Data of major nuclides and radioactive material density are as follows

Nuclide		Radioactive material density※ (Bq/cm3)	Detection limits (Bq/cm^3)	Half-life
Gas	I-131	Below detection limits	4.2×10^{-6}	about 8 days
	Cs-134	2.3×10^{-5}	5.8×10^{-6}	about 2 years
	Cs-137	3.6×10^{-5}	6.1×10^{-6}	about 30 years

【Reference】 **※under evaluation**

Nuclide		Radioactive material density※ (Bq/cm3)	Detection limits (Bq/cm^3)	Half-life
Gas	Kr-85	4.4×10^{-1} ※	7.6×10^{-4}	about 11 years
	Xe-131m	6.9×10^{-4} ※	1.3×10^{-4}	about 12 days
	Xe-133	1.4×10^{-5} ※	1.3×10^{-5}	about 5 days
	Xe-135	1.2×10^{-5} ※	4.1×10^{-6}	about 9 hours

【 Reference 】 Result of sampling of gas inside the primary containment vessel of Unit 2 in Fukushima Daiichi Nuclear Power Station (August 10, 2011)

Nuclide		Radioactive material density (Bq/cm^3)		
		1 st (11:06 am)	2 nd (11:07 am)	3 rd (11:08 am)
Gas	Kr-85	Below detection limits	7.4×10^{1}	7.5×10^{1}
	Xe-131m	3.8×10^{1}	4.7×10^{1}	4.0×10^{1}
	Cs-137	7.0×10^{-1}	9.6×10^{-1}	Below detection limits
	Cs-134	Below detection limits	8.2×10^{-1}	8.2×10^{-1}
	I-131	Below detection limits	Below detection limits	Below detection limits

【 Reference 】 Result of sampling of gas inside the primary containment vessel of Unit 1 in Fukushima Daiichi Nuclear Power Station (July 30, 2011)

Nuclide	Radioactive material density (Bq/cm^3)
Cs-137	2.0×10^{1}
Cs-134	1.7×10^{1}
I-131	Below detection limits