Primary Containment Vessel of Unit 1 of Fukushima Daiichi Nuclear Power Station
Sampling Result of the Gas Control System

January 13, 2012
Tokyo Electric Power Company

[Sampling time & date] January 12, 2012 (Thu) 11:02 – 11:43 (particulate filter)
11:02 – 11:43 (charcoal filter)

[Measurement result]

Nuclides		Density of sample (Bq/cm^3)	Detection limits (Bq/cm^3)	Half-life
particulate filter	I-131	Below measurable limit	$7.6 * 10^{-7}$	About 8 days
	Cs-134	Below measurable limit	$2.0 * 10^{-6}$	About 2 years
	Cs-137	$3.2 * 10^{-6}$	$2.3 * 10^{-6}$	About 30 years

核　種		Density of sample (Bq/cm^3)	Detection limits (Bq/cm^3)	Half-life
charcoal filter	I-131	Below measurable limit	$1.6 * 10^{-6}$	About 8 days
	Cs-134	Below measurable limit	$3.6 * 10^{-6}$	About 2 years
	Cs-137	Below measurable limit	$4.1 * 10^{-6}$	About 30 years

This sampling is targeted for nuclide analysis of particulate and iodine, not for noble gas.

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Sampling Result of the Gas Control System

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Tokyo Electric Power Company

[Sampling place] Intake of gas control system of Primary Containment Vessel of Unit 1

[Sampling time & date] January 12, 2012 (Thu) 12:21

[Measurement result]

Nuclides		Density of sample (Bq/cm^3)	Detection limits (Bq/cm^3)	Half-life
Gas vial container	I-131	Below measurable limit	$1.2 * 10^{-1}$	About 8 days
	Cs-134	$4.8 * 10^{-1}$	$3.1 * 10^{-1}$	About 2 years
	Cs-137	$5.9 * 10^{-1}$	$3.7 * 10^{-1}$	About 30 years
	Kr-85	Below measurable limit	$2.8 * 10^{1}$	About 11 years
	Xe-131m	Below measurable limit	$2.8 * 10^{0}$	About 12 days
	Xe-133	Below measurable limit	$2.4 * 10^{-1}$	About 5 days
	Xe-135	Below measurable limit	$9.7 * 10^{-2}$	About 9 hours

[Reference] Both of short-half-life Xe are below measurable limit.
※ Continuation of subcriticality is monitored by measuring the radiation density of Xe-135 directly by the radiation detector in the gas control system. (Safety regulation)