

**Result of sampling of gas inside the primary containment vessel  
of Unit 2 in Fukushima Daiichi Nuclear Power Station  
( Sampling Date : October 28, 2011 15:24 )**

【Place of Sampling】 Unit 2 PCV gas sampling system intake  
 【Date of Sampling】 Fri. October 28, 2011 15:24  
 【Measurement Result】 Data of major nuclides  
 and radioactive material density are as follows

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	I-131	Below detection limits	$2.1 \times 10^{-1}$	about 8 days
	Cs-134	$1.1 \times 10^0$	$4.6 \times 10^{-1}$	about 2 years
	Cs-137	$1.7 \times 10^0$	$6.3 \times 10^{-1}$	about 30 years

【 Reference 】 under evaluation

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	Kr-85	Below detection limits	$4.6 \times 10^1$	about 11 years
	Xe-131m	Below detection limits	$5.1 \times 10^0$	about 12 days
	Xe-133	Below detection limits	$4.0 \times 10^{-1}$	about 5 days
	Xe-135	Below detection limits	$1.6 \times 10^{-1}$	about 9 hours

**Result of sampling of gas inside the primary containment vessel  
of Unit 2 in Fukushima Daiichi Nuclear Power Station  
( Sampling Date : October 28, 2011 15:26 )**

【 Place of Sampling 】 Unit 2 PCV gas sampling system intake

【 Date of Sampling 】 Fri. October 28, 2011 15:26

【 Measurement Result 】 Data of major nuclides  
and radioactive material density are as follows

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	I-131	Below detection limits	$1.8 \times 10^{-1}$	about 8 days
	Cs-134	Below detection limits	$4.4 \times 10^{-1}$	about 2 years
	Cs-137	$6.7 \times 10^{-1}$	$4.8 \times 10^{-1}$	about 30 years

【 Reference 】 under evaluation

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	Kr-85	Below detection limits	$3.6 \times 10^1$	about 11 years
	Xe-131m	Below detection limits	$4.4 \times 10^0$	about 12 days
	Xe-133	Below detection limits	$2.8 \times 10^{-1}$	about 5 days
	Xe-135	Below detection limits	$1.4 \times 10^{-1}$	about 9 hours

**Result of sampling of gas inside the primary containment vessel  
of Unit 2 in Fukushima Daiichi Nuclear Power Station  
( Sampling Date : November 1, 2011 remeasurement )**

【Place of Sampling】 Unit 2 PCV gas sampling system dust radiation monitor

【Date of Sampling】 Tue. November 1, 2011 13:51 – 14:20

【Measurement Result】 Data of major nuclides  
and radioactive material density are as follows

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	I-131	Below detection limits	$1.8 \times 10^{-6}$	about 8 days
	Cs-134	Below detection limits	$3.8 \times 10^{-6}$	about 2 years
	Cs-137	$5.3 \times 10^{-6}$	$4.2 \times 10^{-6}$	about 30 years

【 Reference 】 under evaluation

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	Kr-85	$3.6 \times 10^{-3}$	$3.1 \times 10^{-4}$	about 11 years
	Xe-131m	$5.3 \times 10^{-4}$	$4.2 \times 10^{-5}$	about 12 days
	Xe-133	$6.5 \times 10^{-6}$	$3.4 \times 10^{-6}$	about 5 days
	Xe-135	$1.3 \times 10^{-5}$	$5.4 \times 10^{-6}$	about 9 hours

**Result of sampling of gas inside the primary containment vessel  
of Unit 2 in Fukushima Daiichi Nuclear Power Station  
( Sampling Date : November 2, 2011 )**

【 Place of Sampling 】 Unit 2 PCV gas sampling system dust radiation monitor

【 Date of Sampling 】 Wed. November 2, 2011 11:59 – 12:29

【 Measurement Result 】 Data of major nuclides  
and radioactive material density are as follows

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	I-131	Below detection limits	$4.4 \times 10^{-6}$	about 8 days
	Cs-134	$7.9 \times 10^{-6}$	$3.6 \times 10^{-6}$	about 2 years
	Cs-137	Below detection limits	$4.0 \times 10^{-6}$	about 30 years

【 Reference 】 under evaluation

Nuclide		Radioactive material density ( Bq/cm <sup>3</sup> )	Detection limits ( Bq/cm <sup>3</sup> )	Half-life
Gas	Kr-85	$5.3 \times 10^{-1}$	$7.2 \times 10^{-4}$	about 11 years
	Xe-131m	$6.1 \times 10^{-4}$	$1.6 \times 10^{-4}$	about 12 days
	Xe-133	Below detection limits	$1.5 \times 10^{-5}$	about 5 days
	Xe-135	$1.7 \times 10^{-5}$	$4.3 \times 10^{-6}$	about 9 hours