

Result of Pu Nuclide Analysis of Sub-Drain at Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Data summarized on August 8)

(Unit: Bq/cm³)

Place of Sampling	Date	Pu-238	Pu-239+Pu-240
Unit 2 Sub-Drain	Mar 7, 2014	N.D. [4.2×10^{-7}]	N.D. [4.6×10^{-7}]
Deep Well	March 2014 No sampling ^{*1}	-	-

[] shows below the detection limit.

* The sampling could not be performed due to replacement of a sampling device.

2. Analytical Institution

KAKEN Inc.

3. Evaluation:

Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <1/2>

(Data summarized on August 8)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 6 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Feb 7, 2014	Feb 7, 2014
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	2.2E-01	ND
Cs-137 (Approx. 30 years)	5.7E-01	ND
H-3 (approx. 12yrs)	4.0E-01	2.2E-02
Gross α	ND	ND
Gross β	1.8E+00	ND
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	4.6E-01	6.9E-05

* 0.0E±0 is the same as 0.0 x 10^{±0}

* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on February 8, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

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

Gross α: Approx. 1E-4Bq/cm³, Gross β: Approx. 3E-3Bq/cm³, Sr-89: Approx. 3E-4Bq/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.

* Nuclides analysis of Sr was done by KAKEN Inc..

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <2/2>

(Data summarized on August 8)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Deep well
Date of Sampling	Mar 7, 2014	March 2014 No sampling ^{*1}
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	
I-131 (Approx. 8 days)	ND	—
Cs-134 (Approx. 2 years)	9.9E-02	—
Cs-137 (Approx. 30 years)	2.9E-01	—
H-3 (approx. 12yrs)	1.9E-01	—
Gross α	ND	—
Gross β	9.5E-01	—
Sr-89 (Approx. 51 days)	ND	—
Sr-90 (Approx. 29 years)	2.5E-01	—

* 0.0E±0 is the same as 0.0 x 10^{±0}

* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on March 8, 2014.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm³

Gross α: Approx. 2E-3Bq/cm³, Sr-89: Approx. 3E-4Bq/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.

* Nuclides analysis of Sr-90 was done by KAKEN Inc..

*1 The sampling could not be performed due to replacement of a sampling device.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.