

Analysis Results of Pu in Seawater at Fukushima Daiichi Nuclear Power Station

## 1. Sampling Point:

- Fukushima Daiichi Nuclear Power Station
  - North of Discharge Channel of Unit 5 and 6
  - Near South Discharge Channel
  - 15 km offshore of Fukushima Daiichi Upper Layer
- Fukushima Daini Nuclear Power Station
  - 15 km offshore of Fukushima Daini Upper Layer

## 2. Analytical Body : Japan Chemical Analysis Center

## 3. Measurement Results:

( Unit: Bq/L )

Sampling Point	Date of Sampling	Pu-238	Pu-239, Pu-240
North of Discharge Channel of Unit 5 and 6, 1F	Sep. 12	N.D. [ $<5.2 \times 10^{-1}$ ]	N.D. [ $<4.9 \times 10^{-1}$ ]
Near South Discharge Channel, 1F		N.D. [ $<4.8 \times 10^{-1}$ ]	N.D. [ $<4.8 \times 10^{-1}$ ]
15 km offshore of Fukushima Daiichi Upper Layer		N.D. [ $<8.4 \times 10^{-1}$ ]	N.D. [ $<7.3 \times 10^{-1}$ ]
15 km offshore of Fukushima Daini Upper Layer		N.D. [ $<7.0 \times 10^{-1}$ ]	N.D. [ $<6.6 \times 10^{-1}$ ]

Values in [ ] show the detectable limits.

## 4. Evaluation:

From the samples of this measurement, no Pu-238, Pu-239 and Pu-240 were detected.

END

# Nuclide Analysis Results of Seawater <Coast and offshore>

Attachment

(Data summarized on September 29)

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)		Around South Discharge Channel of 1F (approx. 330m south of 1-4u Discharge Channel)		15 km offshore of Fukushima Daiichi Upper layer		15 km offshore of Fukushima Daini Upper layer		② Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Date of sampling	August 15, 2011		August 15, 2011		August 27, 2011		August 27, 2011	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	90
H-3 (about 12 years)	ND	-	ND	-	ND	-	ND	-	60,000
Total α	ND	—	ND	—	ND	—	ND	—	—
Total β	ND	—	ND	—	ND	—	ND	—	—

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* The results of I-131, Cs-134 and Cs-137 were announced on August 16 and 28.

(Evaluation)

H-3, total alpha and total beta rays in the samplings measured this time were not detected.