

## Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on August 14)

| Place of Sampling                | North of Unit 5-6 Discharge Channel at 1F<br>(Approx. 30m North of Unit 5-6 Discharge Channel) |                         | Around 1F South Discharge Channel of 1F<br>(Approx. 330m South of Unit 1-4 Discharge Channel) |                         | Density Limit Specified by<br>the Reactor Regulation (Bq/L)<br>(The density limit in the water<br>outside the surrounding<br>monitored areas is provided<br>in section 6 of Appendix 2.) |
|----------------------------------|--|-------------------------|---|-------------------------|--|
| Time of Sampling                 | Aug 13, 2012<br>7:40 AM  |                         | Aug 13, 2012<br>6:50 AM   |                         |  |
| Detected Nuclides<br>(Half-life) | Density of Sample<br>(Bq/L)  | Scaling Factor<br>( / ) | Density of Sample<br>(Bq/L)   | Scaling Factor<br>( / ) |  |
| I-131<br>(Approx. 8 days)        | ND   | -                       | ND  | -                       | 40   |
| Cs-134<br>(Approx. 2 years)      | ND   | -                       | ND  | -                       | 60   |
| Cs-137<br>(Approx. 30 years)     | ND   | -                       | ND  | -                       | 90   |

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

\* Data of other nuclides is under evaluation.

\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

\* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.49Bq/L, Cs-134: Approx.1.2Bq/L, Cs-137: Approx.1.6Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

## Analysis Result of Pu in the Seawater

### 1. Measurement Result

(Unit: Bq/L)

| Place of Sampling  | Date    | Pu-238                         | Pu-239+Pu-240                  |
|--|---------|--------------------------------|--------------------------------|
| 15km Offshore of 1F Upper Layer  | July 11 | N.D. [ $<5.1 \times 10^{-6}$ ] | N.D. [ $<4.7 \times 10^{-6}$ ] |
| 3km Offshore of Ukedo River Upper Layer                                      | July 3  | N.D. [ $<6.1 \times 10^{-6}$ ] | N.D. [ $<5.8 \times 10^{-6}$ ] |
| 3km Offshore of 1F Upper Layer   | July 10 | N.D. [ $<5.7 \times 10^{-6}$ ] | N.D. [ $<5.9 \times 10^{-6}$ ] |
| 3km Offshore of 2F Upper Layer   | July 4  | N.D. [ $<5.1 \times 10^{-6}$ ] | N.D. [ $4.7 \times 10^{-6}$ ]  |
| Range of Past Measurement Values in the Sea Area Near 1F and 2F (2001-2008)* |         | -                              | ND ~ $1.3 \times 10^{-5}$      |

The detection limit is provided in parentheses.

\* Source: "2009 Report on the Result of Radioactivity Measurement around Nuclear Power Plant (Fukushima Nuclear Power Station Coordinating Committee for Safety Technology)

### 2. Analytical Institution

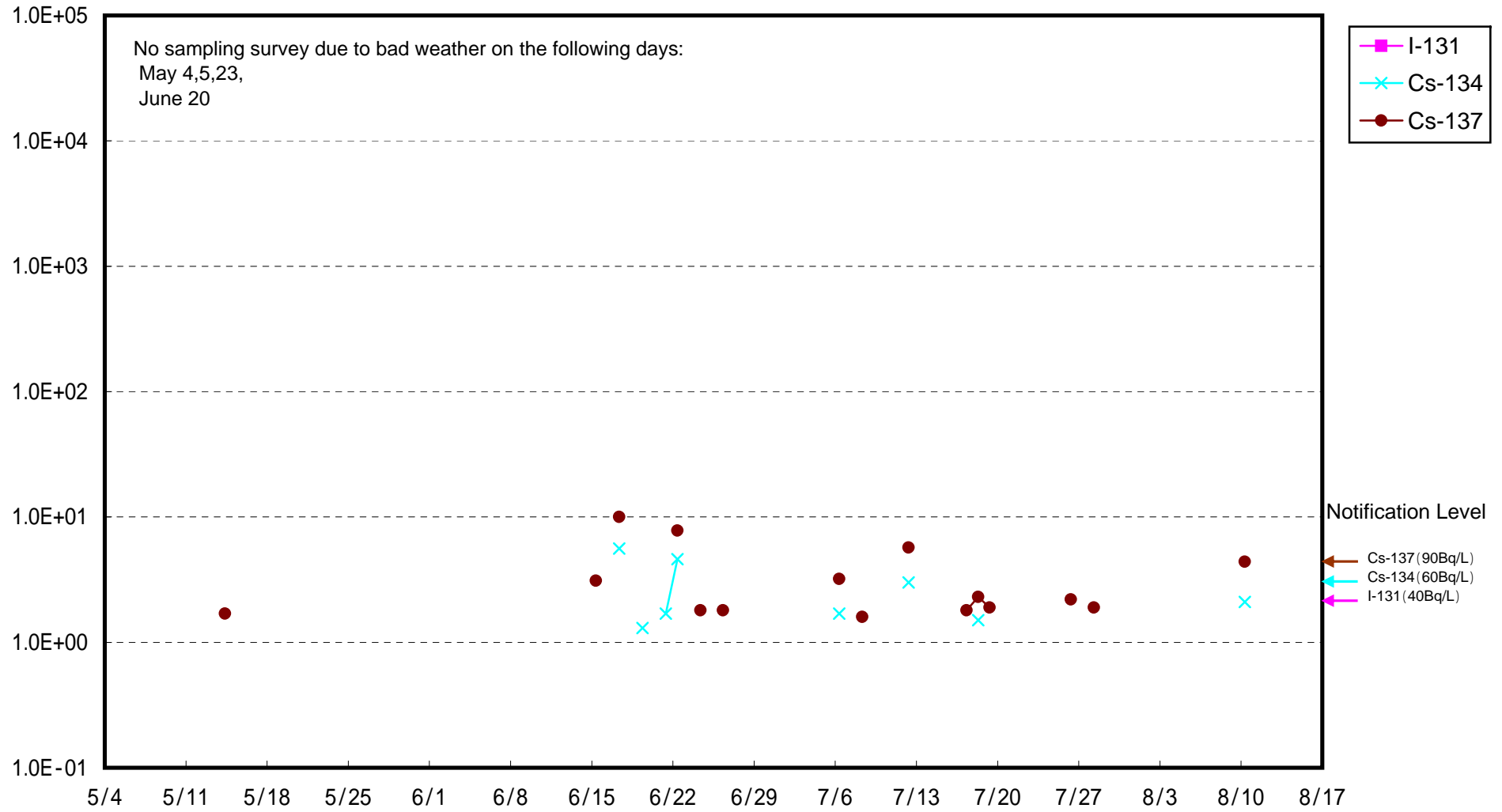
Japan Chemical Analysis Center (JCAC)

### 3. Evaluation

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

End

Radioactivity Density of the Seawater at the North of 1F Unit 5-6 Discharge Channel (Bq/L)



# Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)

