

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

(Data summarized on January 23)

| Place of Sampling                | North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS<br>(Approx. 30m North of Unit 5-6 Discharge Channel) |                         | Around South Discharge Channel of Fukushima Daiichi NPS<br>(Approx. 1.3km South of Unit 1-4 Discharge Channel) |                         | Density Limit Specified by the Reactor Regulation (Bq/L)<br>(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.) |
|----------------------------------|---|-------------------------|--|-------------------------|--|
|                                  | Time of Sampling<br>Jan 22, 2013<br>7:15 AM   |                         | Time of Sampling<br>Jan 22, 2013<br>7:55 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. 0.45Bq/L, Cs-134: Approx. 1.1Bq/L, Cs-137: Approx. 1.4Bq/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.

## Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on January 23)

| Place of Sampling<br>(Place No.) | North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS<br>(Approx. 30m North of Unit 5-6 Discharge Channel)<br>(T-1) |                         | Around South Discharge Channel of Fukushima Daiichi NPS<br>(Approx. 330m South of Unit 1-4 Discharge Channel)<br>(T-2) |                         | /                           |                         | Density Limit Specified by the Reactor Regulation (Bq/L)<br>(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.) |
|----------------------------------|--|-------------------------|--|-------------------------|-----------------------------|-------------------------|--|
|                                  | Date of Sampling   | Oct 15, 2012            |  | Oct 15, 2012            |                             | /                       |  |
| Detected Nuclides<br>(Half-life) | Density of Sample<br>(Bq/L)  | Scaling Factor<br>( / ) | 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   |
| H-3<br>(approx. 12yrs)           | ND   | -                       | ND   | -                       | /                           | /                       | 60,000   |
| All α                            | ND   | -                       | ND   | -                       | /                           | /                       | -  |
| All β                            | ND   | -                       | ND   | -                       | /                           | /                       | -  |
| Sr-89<br>(Approx. 51 days)       | ND   | -                       | ND   | -                       | /                           | /                       | 300  |
| Sr-90<br>(Approx. 29 years)      | 0.39   | 0.01                    | 0.054  | 0.00                    | /                           | /                       | 30   |

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

\* Radioactivity Density " - " means "not applicable".

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

\* Nuclide analysis results of I-131, Cs-134, Cs-137 and All β obtained at "Around South Discharge Channel of Fukushima Daiichi NPS" were announced on October 15, 2012.

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

I-131: Approx. 0.43Bq/L, Cs-134: Approx.1.0Bq/L, Cs-137: Approx.1.3Bq/L, H-3: Approx. 3.0Bq/L, All α: Approx. 0.11Bq/L, All β: Approx. 23Bq/L, Sr-89: Approx. 0.2Bq/L

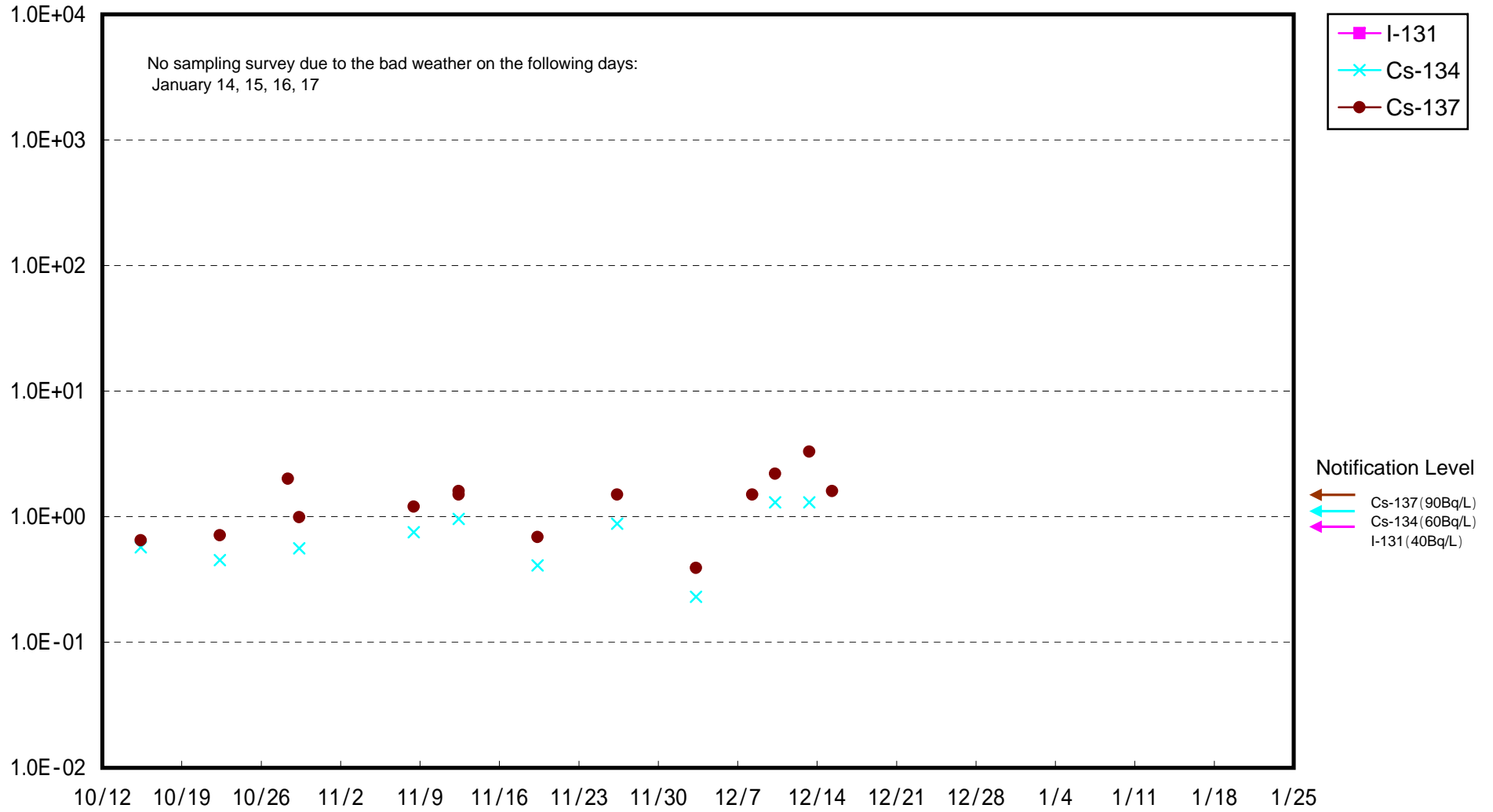
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Nuclides analysis of Sr-89 and Sr-90 were done by Japan Chemical Analysis Center.

(Evaluation)

Although Sr-90 was detected supposedly as a result of this accident, it is less than the density limit in the water which is specified by the announcement.

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



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

