Reference

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

(Data summarized on June 14)

Place of Sampling	North of Unit 5-6 Discharge Channel at 1F (Approx. 30m North of Unit 5-6 Discharge Channel)		Around 1F South Discharge Channel of 1F (Appox. 330m South of Unit 1-4 Discharge Channel)		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	Jun 13, 2012 8:45 AM		Jun 13, 2012 8:25 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	ND	-	ND	-	90

* The density specified by the Reactor Regulation is converted from Bq/cm^3 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. 0.53Bq/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	May 18	N.D. [$<7.0\times10^{-6}$]	$(8.9\pm2.3)\times10^{-6}$
3km Offshore of Ukedo River Upper Layer	May 9	N.D. [$<5.6\times10^{-6}$]	N.D. [$<5.5\times10^{-6}$]
3km Offshore of 1F Upper Layer	May 17	N.D. [$<5.2\times10^{-6}$]	N.D. [$<5.3\times10^{-6}$]
3km Offshore of 2F Upper Layer	May 13	N.D. [$<5.2\times10^{-6}$]	N.D. [$<4.7\times10^{-6}$]
Range of Past Measurement Values in the Sea Area Near 1F and 2F (2001-2008)*		–	ND～1.3×10^{-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

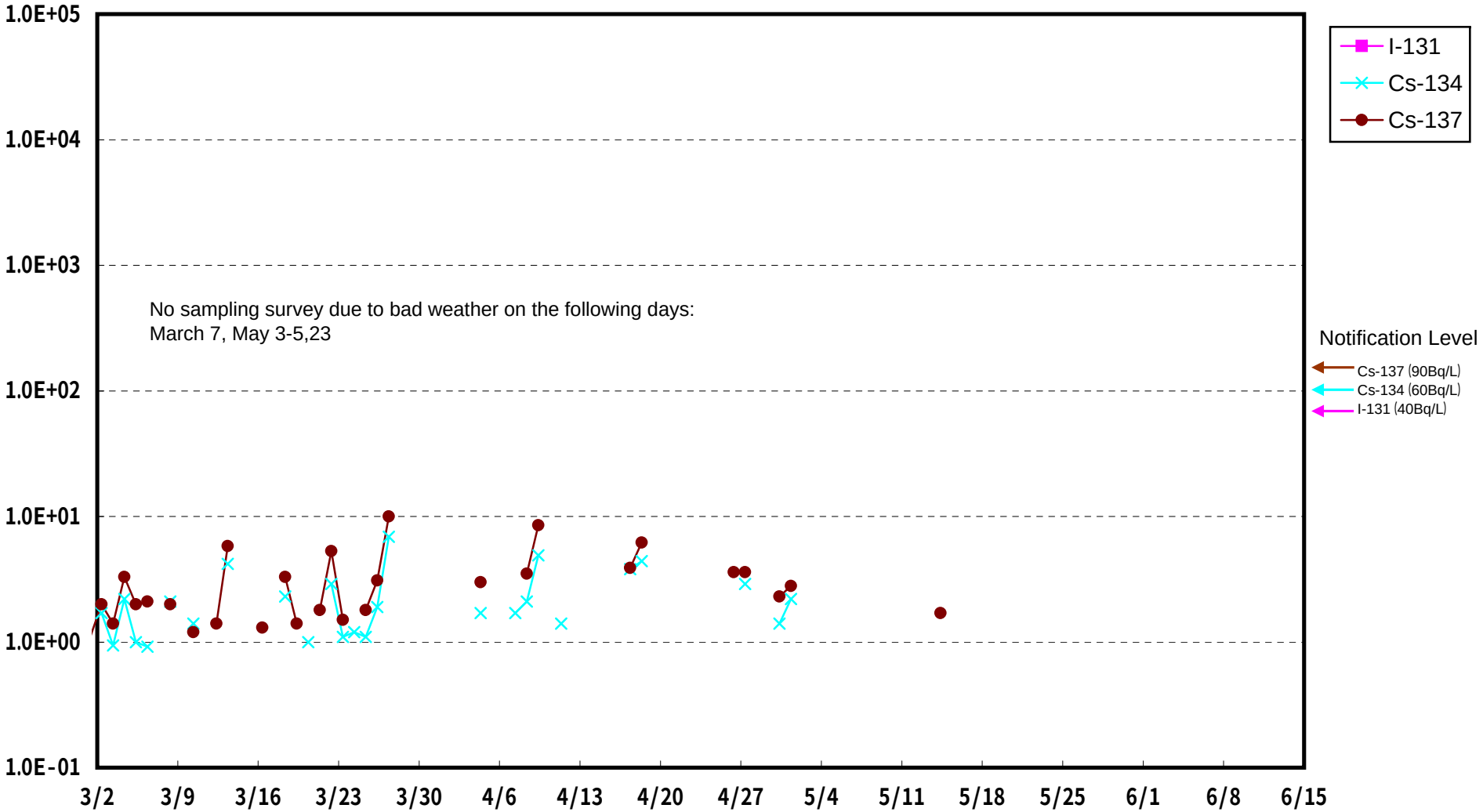
Japan Chemical Analysis Center (JCAC)

3. Evaluation

As the density of Pu-239+Pu-240 detected at 15km offshore of 1F on May 18 was within the range of past measurement values in the sea area near 1F and 2F, it can be concluded that the detection of Pu-239+Pu-240 is not related to the nuclear accident.

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)