Reference

# Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 2 Reactor Building < 1/2 >

(Data summarized on January 18)

| Place of Sampling | Upper Part of Unit 2 Reactor Building ① (The Center of the Blow-out Panel, West Side Upper) | | Upper Part of Unit 2 Reactor Building ② (The Center of the Blow-out Panel, West Side Lower) | | Upper Part of Unit 2 Reactor Building ③ (The Center of the Blow-out Panel, West Side Upper) | | ② Density Limit Specified by the Reactor Regulation ($Bq/cm^3$) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2) |
|---|---|---|---|---|---|---|---|
| Time of Sampling | Jan 12, 2013 10:25 AM - 12:25 PM | | Jan 12, 2013 10:25 AM - 12:25 PM | | Jan 12, 2013 1:15 PM - 3:15 PM | | |
| Detected Nuclides (Half-life) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | |
| I-131 (Approx. 8 days) | ND | - | ND | - | ND | - | 1E-03 |
| Cs-134 (Approx. 2 years) | 1.1E-05 | 0.01 | ND | - | ND | - | 2E-03 |
| Cs-137 (Approx. 30 years) | 2.0E-05 | 0.01 | 3.7E-06 | 0.00 | ND | - | 3E-03 |

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE－O is the same as O.O x $10^{-O}$

Data of other nuclides is under examination.

* 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.

The detection limits are as follows. Volatile: I-131: Approx. 2E-6Bq/cm3, Cs-134: Approx.5E-6Bq/cm3, Cs-137: Approx.7E-6Bq/cm3 Particulate: I-131: Approx. 1E-6Bq/cm3, Cs-134: Approx.3E-6Bq/cm3, Cs-137: Approx.4E-6Bq/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.

Reference

# Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 2 Reactor Building < 2/2 >

(Data summarized on January 18)

| Place of Sampling | Upper Part of Unit 2 Reactor Building ④ (The Center of the Blow-out Panel, West Side Lower) | | | | | | ② Density Limit Specified by the Reactor Regulation ($Bq/cm^3$) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2) |
|---|---|---|---|---|---|---|---|
| Time of Sampling | Jan 12, 2013 1:15 PM - 3:15 PM | | | | | | |
| Detected Nuclides (Half-life) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | ①Density of Sample ($Bq/cm^3$) | Scaling Factor (①/②) | |
| I-131 (Approx. 8 days) | ND | - | | | | | 1E-03 |
| Cs-134 (Approx. 2 years) | 7.7E-06 | 0.00 | | | | | 2E-03 |
| Cs-137 (Approx. 30 years) | 1.2E-05 | 0.00 | | | | | 3E-03 |

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE－O is the same as O.O x $10^{-O}$

Data of other nuclides is under examination.

* 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.

The detection limits are as follows. Volatile: I-131: Approx. 2E-6Bq/cm3, Cs-134: Approx.5E-6Bq/cm3, Cs-137: Approx.6E-6Bq/cm3
Particulate: I-131: Approx. 1E-6Bq/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.