<Reference>
December 10, 2012
Tokyo Electric Power Company

Reference

# Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building < 1/2 >

(Data summarized on December 10)

| Place of Sampling | Upper Part of Unit 3 Reactor Building ① (Above the Reactor (Northeast Side)(Downward direction)) | | Upper Part of Unit 3 Reactor Building ② (Above the Reactor (Northeast Side)(Cross direction)) | | Upper Part of Unit 3 Reactor Building ③ (Above the Reactor (Northeast Side)(Downward direction)) | | 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 | Dec 6, 2012 7:58 AM - 8:28 AM | | Dec 6, 2012 7:58 AM - 8:28 AM | | Dec 6, 2012 8:53 AM - 9:23 AM | | |
| 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) | ND | - | 1.7E-05 | 0.01 | 1.6E-04 | 0.08 | 2E-03 |
| Cs-137 (Approx. 30 years) | 6.1E-05 | 0.02 | 3.2E-05 | 0.01 | 2.9E-04 | 0.10 | 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. 7E-6Bq/cm3, Cs-134: Approx.2E-5Bq/cm3, Cs-137: Approx.2E-5Bq/cm3 Particulate: I-131: Approx. 6E-6Bq/cm3, Cs-134: Approx.1E-5Bq/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 3 Reactor Building < 2/2 >

(Data summarized on December 10)

| Place of Sampling | Upper Part of Unit 3 Reactor Building ④ (Above the Reactor (Northeast Side)(Cross direction)) | | Upper Part of Unit 3 Reactor Building ⑤ (Around the Machine Hatch Opening on the 3rd Floor) | | Upper Part of Unit 3 Reactor Building ⑥ (Around the Machine Hatch Opening on the 3rd Floor) | | 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 | Dec 6, 2012 8:53 AM - 9:23 AM | | Dec 6, 2012 9:47 AM - 10:17 AM | | Dec 6, 2012 10:40 AM - 11:10 AM | | |
| 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) | 2.1E-04 | 0.11 | ND | - | ND | - | 2E-03 |
| Cs-137 (Approx. 30 years) | 3.4E-04 | 0.11 | ND | - | 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. 8E-6Bq/cm3, Cs-134: Approx.2E-5Bq/cm3, Cs-137: Approx.2E-5Bq/cm3
Particulate: I-131: Approx. 6E-6Bq/cm3, Cs-134: Approx.1E-5Bq/cm3, Cs-137: Approx.1E-5Bq/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.