

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 July 10)

| Place of Sampling             | Upper Part of Unit 3 Reactor Building<br>(Above the Reactor (Northeast Side)(Downward direction)) | Upper Part of Unit 3 Reactor Building<br>(Above the Reactor (Northeast Side)(Cross direction)) | Upper Part of Unit 3 Reactor Building<br>(Above the Reactor (Northeast Side)(Downward direction)) | Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> )<br>(Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2) |   |                      |       |
|-------------------------------|---|--|---|--|---|----------------------|-------|
| Time of Sampling              | Jul 4, 2013<br>8:50 AM - 9:20 AM  | Jul 4, 2013<br>8:50 AM - 9:20 AM   | Jul 4, 2013<br>9:50 AM - 10:20 AM   |  |   |                      |       |
| Detected Nuclides (Half-life) | Density of Sample (Bq/cm <sup>3</sup> )   | Scaling Factor ( / )   | Density of Sample (Bq/cm <sup>3</sup> )   | Scaling Factor ( / )   | Density of Sample (Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) |       |
| I-131<br>(Approx. 8 days)     | ND  | -  | ND  | -  | ND                                      | -                    | 1E-03 |
| Cs-134<br>(Approx. 2 years)   | ND  | -  | ND  | -  | ND                                      | -                    | 2E-03 |
| Cs-137<br>(Approx. 30 years)  | 3.6E-05   | 0.01   | 2.5E-05   | 0.01   | 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<sup>-0</sup>

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/cm<sup>3</sup>, Cs-134: Approx. 2E-5Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-5Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 4E-6Bq/cm<sup>3</sup>, Cs-134: Approx. 8E-6Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-5Bq/cm<sup>3</sup>

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 the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building < 2/2 >

(Data summarized on July 10)

| Place of Sampling             | Upper Part of Unit 3 Reactor Building<br>(Above the Reactor (Northeast Side)(Cross direction)) | Upper Part of Unit 3 Reactor Building<br>(Around the Machine Hatch Opening on the 3rd Floor) | Upper Part of Unit 3 Reactor Building<br>(Around the Machine Hatch Opening on the 3rd Floor) | Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> )<br>(Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2) |         |      |       |
|-------------------------------|--|--|--|--|---------|------|-------|
| Time of Sampling              | Jul 4, 2013<br>9:50 AM - 10:20 AM  | Jul 4, 2013<br>10:45 AM - 11:15 AM   | Jul 4, 2013<br>11:40 AM - 12:10 AM   |  |         |      |       |
| Detected Nuclides (Half-life) | Density of Sample (Bq/cm <sup>3</sup> )  | Scaling Factor ( / )   | Density of Sample (Bq/cm <sup>3</sup> )  |  |         |      |       |
| I-131<br>(Approx. 8 days)     | ND   | -  | ND   | -  | ND      | -    | 1E-03 |
| Cs-134<br>(Approx. 2 years)   | ND   | -  | 1.1E-05  | 0.01   | ND      | -    | 2E-03 |
| Cs-137<br>(Approx. 30 years)  | ND   | -  | 2.9E-05  | 0.01   | 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<sup>-0</sup>

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/cm<sup>3</sup>, Cs-134: Approx. 2E-5Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-5Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 4E-6Bq/cm<sup>3</sup>, Cs-134: Approx. 9E-6Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-5Bq/cm<sup>3</sup>

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