

Reference

### Nuclides Analysis Result of the Radioactive Materials in the Air at the Exhaust System of the Unit 2 Reactor Building

(Data summarized on December 20)

| Place of Sampling                | The Exhaust System of the Unit 2 Reactor Building<br>(The entrance of cover exhaust system filter) |                         | The Exhaust System of the Unit 2 Reactor Building<br>(The exit of cover exhaust system filter) |                         | ② Density Limit Specified by<br>the Reactor Regulation<br>(Bq/cm <sup>3</sup> )<br>(Density limit in the air which<br>radiation workers breathe in is<br>specified in section 4 of<br>Appendix 2) |
|----------------------------------|--|-------------------------|--|-------------------------|---|
| Time of Sampling                 | Dec 9, 2013<br>1:49 PM - 3:48 PM   |                         | Dec 9, 2013<br>1:40 PM - 3:40 PM   |                         |   |
| Detected Nuclides<br>(Half-life) | ①Density of Sample<br>(Bq/cm <sup>3</sup> )  | Scaling Factor<br>(①/②) | ①Density of Sample<br>(Bq/cm <sup>3</sup> )  | Scaling Factor<br>(①/②) |   |
| I-131<br>(Approx. 8 days)        | ND   | -                       | ND   | -                       | 1E-03   |
| Cs-134<br>(Approx. 2 years)      | 2.3E-06  | 0.00                    | ND   | -                       | 2E-03   |
| Cs-137<br>(Approx. 30 years)     | 4.6E-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<sup>-O</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 of the exhaust system at the Unit 2 Reactor Building (the entrance of cover exhaust system filter) are as follows.

Volatile; I-131: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 4E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 5E-7Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 2E-7Bq/cm<sup>3</sup>

The detection limits of the exhaust system at the Unit 2 Reactor Building (the exit of cover exhaust system filter) are as follows.

Volatile; I-131: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 4E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 5E-7Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 1E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 3E-7Bq/cm<sup>3</sup>