

Nuclide Analysis Results of Radioactive Materials in the Air  
at the Sites of Fukushima Nuclear Power Stations

Reference

(Data summarized on August 28)

| Place of Sampling                  | West Gate of Fukushima Daiichi                   |                      | MP-1 of Fukushima Daini (Reference)              |                      |  |                      | Density limit by the announcement of Reactor Regulation ( Bq/cm <sup>3</sup> )<br>(Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) 2 |
|------------------------------------|--|----------------------|--|----------------------|--|----------------------|--|
| Time and Date of Sample Collection | 2011/8/27 7:00 ~ 12:00                           |                      | 2011/8/27 9:39 ~ 9:49                            |                      |  |                      |  |
| Detected Nuclides (Half-life)      | Radioactivity density 1 3 ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) | Radioactivity density 1 3 ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) | Radioactivity density 1 3 ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) |  |
| I-131 (about 8 days)               | ND   | -                    | ND   | -                    | /  | /                    | 1E-03  |
| Cs-134 (about 2 years)             | ND   | -                    | ND   | -                    | /  | /                    | 2E-03  |
| Cs-137 (about 30 years)            | ND   | -                    | ND   | -                    | /  | /                    | 3E-03  |

1 The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

3 In this analysis, "ND" means that the results fall bellow detection limits.

Detection limits of 3 nuclides on the West Gate of Fukushima Daiichi are as follows;

(Volatile:I-131:approx.1E-7Bq/cm<sup>3</sup>, Cs-134:approx.4E-7Bq/cm<sup>3</sup>, Cs-137:approx.4E-7Bq/cm<sup>3</sup>)

(Particulate:I-131:approx:7E-8Bq/cm<sup>3</sup>, Cs-134:approx:2E-7Bq/cm<sup>3</sup>, Cs-137:approx.2E-7Bq/cm<sup>3</sup>)

Detection limits of 3 nuclides on MP-1 of Fukushima Daini are as follows;

(Volatile:I-131:approx.2E-6Bq/cm<sup>3</sup>, Cs-134:approx.3E-6Bq/cm<sup>3</sup>, Cs-137:approx.4E-6Bq/cm<sup>3</sup>)

(Particulate:I-131:approx:9E-7Bq/cm<sup>3</sup>, Cs-134:aprox.2E-6Bq/cm<sup>3</sup>, Cs-137:approx.2E-6Bq/cm<sup>3</sup>)

Nuclide Analysis Results of Radioactive Materials in the Air  
at the seaside of the sites of Fukushima Nuclear Power Stations

Reference

(Data summarized on August 28)

| Place of Sampling                     | Fukushima Daiichi<br>Upper of South Breakwater |  | Fukushima Daiichi<br>Upper of Megafloat |  | Fukushima Daiichi<br>Upper of Offshore 2km-3km         |                            | Density limit by the<br>announcement of Reactor<br>Regulation<br>( Bq/cm <sup>3</sup> )<br>(Density limit in the air to<br>which radiation workers<br>breathe in the section 4 of the<br>appendix 2) 2 |
|---------------------------------------|--|--|---|--|--|----------------------------|--|
| Time and Date of Sample<br>Collection |  |  |   |  | 2011/8/27 8:10 ~ 10:10                                 |                            |  |
| Detected Nuclides<br>(Half-life)      |  |  |   |  | Radioactivity<br>density 1 3<br>( Bq/cm <sup>3</sup> ) | Scaling<br>Factor<br>( / ) |  |
| I-131<br>(about 8 days)               |  |  |   |  | ND   | -                          | 1E-03  |
| Cs-134<br>(about 2 years)             |  |  |   |  | ND   | -                          | 2E-03  |
| Cs-137<br>(about 30 years)            |  |  |   |  | ND   | -                          | 3E-03  |

1 The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

3 In this analysis, "ND" means that the results fall below detection limits.

Detection limits of 3 nuclides are as follows;

(Volatile: I-131:approx.2E-7Bq/cm<sup>3</sup>, Cs-134:approx.3E-7Bq/cm<sup>3</sup>, Cs-137:approx.3E-7Bq/cm<sup>3</sup>)

(Particulate:I-131:approx.7E-8Bq/cm<sup>3</sup>, Cs-134:approx.2E-7Bq/cm<sup>3</sup>, Cs-137:approx.2E-7Bq/cm<sup>3</sup>)