

The result of the nuclide analysis of radioactive materials in the air at the site of Fukushima Daini Nuclear Power Station

The result of the nuclide analysis of radioactive materials in the air in the site of Fukushima Daiichi Nuclear Power Station is as follows.

1 . Conditions of collection and measurement

| | | | | |
|-----------------------|----------------------|---|--|--|
| Collection of sample | Place | Fukushima Daiichi: Main gate | | |
| | Date | 3/22 1:10 ~ 1:30 | | |
| | Manner of Collection | Collecting dust by monitoring cars | | |
| | Wind direction | W 0.5m/s (as of 1:10) | | |
| Measurement of sample | Date | 3/22 14:50 ~ | | |
| | Measuring method | bringing the sample to Fukushima Daini Nuclear Power Station and analyzing it by the analysis device of Germanium semi-conductor type nuclide | | |
| | Measuring time | 500s | | |

2 . Result

(Data are collected on March 22nd)

| | Nuclide | Collected on March 22nd | | | | | | | | Density limit in the air to workers engaged in tasks associated with radiation (Bq/cm3) |
|-----------------------------|---------|--------------------------------|----------------------------------|---|--|--|--|--|--|---|
| | | Radioactivity density (Bq/cm3) | Detection limit density (Bq/cm3) | Ratio to density limit in the air (/) | | | | | | |
| Volatile characteristics | I-131 | 2.239E-03 | 1.569E-05 | 2.24 | | | | | | 1.0E-03 |
| | I-132 | ND | - | - | | | | | | 7.0E-02 |
| | I-133 | ND | - | - | | | | | | 5.0E-03 |
| Particulate characteristics | Co-58 | ND | - | - | | | | | | 1.0E-02 |
| | Cs-134 | 1.591E-05 | 5.853E-06 | 0.01 | | | | | | 2.0E-03 |
| | Cs-136 | ND | - | - | | | | | | 1.0E-02 |
| | Cs-137 | 1.889E-05 | 5.295E-06 | 0.01 | | | | | | 3.0E-03 |
| Other detected nuclide | Te-129 | ND | - | - | | | | | | 4.0E-01 |
| | Te-132 | 6.680E-05 | 1.116E-05 | 0.01 | | | | | | 7.0E-03 |

Statutory density limit to the 3-month average density of radioactive nuclide contained in the air that humans breathe
X.XE - X means X.X x 10 - x