

Result of gamma ray nuclide analysis of soil

1.Result of measurement: The results of gamma ray nuclide analysis from the samples taken in the power station are as follows.
Analysis was conducted on all samples on which we conducted plutonium analysis.

2. Evaluation: The result of gamma ray nuclide analysis of soil conducted by Fukushima Prefecture in FY 2009 is shown below.
Compared to this, higher radioactivity density has been detected.

<Results of the soil analysis conducted by Fukushima Prefecture in FY 2009>
Cs-137: ND ~ 21Bq/kg·dry soil, Others: ND

(Unit : Bq/kg·wet soil)

| Sampling spot | [Fixed point]*1 Playground (west-northwest approx. 500m) *2 | | | [Fixed point]*1 Forest of wild birds (west approx. 500m) *2 | | | [Fixed point]*1 Adjacent to industrial waste disposal facility (south-southwest approx. 500m) *2 | | | |
|-----------------------|--|---------|-------------------------------------|--|---------|-------------------------------------|---|---------|-------------------------------------|---------|
| | 5/16 | 5/19 | 5/23 | 5/16 | 5/19 | 5/23 | 5/16 | 5/19 | 5/23 | |
| Analyses Organization | Japan Chemical Analysis Center*3 | JAEA | Japan Chemical Analysis Center*3 | Japan Chemical Analysis Center*3 | JAEA | Japan Chemical Analysis Center*3 | Japan Chemical Analysis Center*3 | JAEA | Japan Chemical Analysis Center*3 | |
| Date of analysis | 5/25 | 5/24 | 5/25 | 5/25 | 5/24 | 5/25 | 5/25 | 5/24 | 5/25 | |
| Nuclide | I-131(approx. 8 days) | 2.6E+04 | 1.9E+04 | 3.4E+04 | 1.9E+03 | 2.3E+02 | 6.8E+02 | 3.2E+04 | 3.9E+04 | 3.6E+04 |
| (Half-life | I-132(approx. 2 hours) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Cs-134(approx. 2 years) | 4.9E+05 | 1.6E+05 | 5.8E+05 | 7.4E+03 | 3.9E+02 | 3.1E+03 | 7.8E+05 | 9.4E+05 | 1.4E+06 |
| | Cs-136(approx. 13 days) | 2.2E+03 | 1.2E+03 | 2.6E+03 | ND | ND | ND | 3.2E+03 | 7.4E+03 | 5.6E+03 |
| | Cs-137(approx. 30 years) | 4.9E+05 | 1.7E+05 | 5.8E+05 | 8.0E+03 | 4.2E+02 | 3.4E+03 | 7.9E+05 | 9.8E+05 | 1.4E+06 |
| | Te-129m(approx. 34 days) | 1.4E+05 | 4.2E+04 | 1.1E+05 | 1.2E+03 | ND | 8.8E+02 | 1.9E+05 | 2.9E+05 | 3.7E+05 |
| | Te-132(approx. 3 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ba-140(approx. 13 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nb-95(approx. 35 days) | ND | 4.3E+02 | ND | ND | ND | ND | ND | 1.2E+03 | ND |
| | Ru-106(approx. 370 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Mo-99(approx. 66 hours) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tc-99m(approx. 6 hours) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | La-140(approx. 2 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Be-7(aapprox. 53 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ag-110m(approx. 250 days) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

*1 In regard to fixed points "playground" and "Adjacent to industrial waste disposal facility", sampling was conducted alongside the previous sampling point in order to avoid overlap. In regard to fixed point "forest of wild birds", sampling was conducted

*2 Distance from the stack of Unit 1, 2

*3 The result by JCAC does not reflect half life correction until sample collection.