Dec 11, 2011

# Nuclide Analysis Results of Sub-drain Water in the Surroundings of "Centralized Radiation Waste Treatment Facility"

I-131(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nov 20 | Nov 21 | Nov 22 | Nov 23 | Nov 24 | Nov 25 | Nov 26 | Nov 27 | Nov 28 | Nov 29 | Nov 30 | Dec 01 | Dec 02 | Dec 03 | Dec 04 | Dec 05 | Dec 06 | Dec 07 | Dec 08 | Dec 09 | Dec 10 |
| ① | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ② | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ⑧ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ⑨ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Cs-134(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nov 20 | Nov 21 | Nov 22 | Nov 23 | Nov 24 | Nov 25 | Nov 26 | Nov 27 | Nov 28 | Nov 29 | Nov 30 | Dec 01 | Dec 02 | Dec 03 | Dec 04 | Dec 05 | Dec 06 | Dec 07 | Dec 08 | Dec 09 | Dec 10 |
| ① | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.022 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ② | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.074 | 0.024 | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | 0.031 | ND | ND | ND | 0.026 | 0.029 | 0.025 | 0.044 | ND | ND | 0.034 | ND | ND | ND | 0.028 | ND | ND | ND | 0.032 | ND |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | 0.25 | 0.1 | 0.15 | 0.22 | 0.14 | 0.12 | 0.12 | 0.26 | 0.12 | 0.26 | 0.11 | 0.16 | 0.21 | 0.22 | 0.084 | 0.1 | 0.099 | 0.12 | 0.25 | 0.12 | 0.096 |
| ⑧ | 0.029 | 0.036 | 0.047 | 0.03 | 0.037 | 0.032 | 0.023 | 0.045 | ND | 0.037 | 0.026 | 0.027 | ND | 0.025 | 0.024 | ND | ND | 0.027 | 0.024 | 0.025 | 0.028 |
| ⑨ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Cs-137(Bq/cm$^3$)

| Sampling point | After transfer | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Nov 20 | Nov 21 | Nov 22 | Nov 23 | Nov 24 | Nov 25 | Nov 26 | Nov 27 | Nov 28 | Nov 29 | Nov 30 | Dec 01 | Dec 02 | Dec 03 | Dec 04 | Dec 05 | Dec 06 | Dec 07 | Dec 08 | Dec 09 | Dec 10 |
| ① | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ② | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ③ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.11 | 0.036 | ND | ND | ND | ND | ND |
| ④ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ⑤ | ND | 0.037 | ND | ND | 0.048 | 0.039 | ND | 0.041 | 0.044 | 0.028 | 0.027 | 0.042 | 0.028 | 0.031 | ND | 0.029 | ND | ND | ND | 0.032 | 0.038 |
| ⑥ | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - | - | - | - |
| ⑦ | 0.32 | 0.13 | 0.18 | 0.27 | 0.17 | 0.12 | 0.16 | 0.29 | 0.16 | 0.31 | 0.12 | 0.19 | 0.24 | 0.27 | 0.13 | 0.13 | 0.12 | 0.13 | 0.31 | 0.12 | 0.13 |
| ⑧ | 0.028 | 0.038 | 0.057 | 0.035 | 0.058 | 0.041 | 0.036 | 0.034 | 0.052 | ND | 0.035 | 0.051 | 0.047 | ND | ND | ND | 0.029 | 0.037 | ND | ND | 0.03 |
| ⑨ | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

* Hyphen "-" indicates that neither sampling nor measurements were implemented.
* ⑥ was conducted as upstream of the groundwater once a week from April 29 since it was unable to sample at④.
* We have been sampling at ⑦ since May 26, for it is located downstream of the groundwater.
* We have been sampling at ⑧ since May 30.
* We have been sampling at ⑨ since August 2.
* "ND" means the sampled data is below measurable limit.
I-131: approx. 0.01Bq/cm3, Cs-134: approx. 0.03Bq/cm3, Cs-137: approx. 0.03Bq/cm3 (12/10)
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

<Place of sampling>
①Southeast part of Unit 4 Turbine Building
②Northeast part of Process Main Building
③Southeast part of Process Main Building
④Southwest part of Process Main Building
⑤South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑥Southwest part of On-site Bunker Building
⑦West part of Incineration Workshop Building
⑧North part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑨Southeast part of On-site Bunker Building