Press Release

(This is provisional translation. Please refer to the official version in Japanese)

*This material and related data are also available at http://www.nsc.go.jp/NSCenglish/mnt/index.htm

Evaluation of Environment Radiation Monitoring Results

Original released on April 27, 2011 Nuclear Safety Commission

Nuclear Safety Commission (NSC) evaluates the Environmental Monitoring Results, 20km or more far from Fukushima Dai-ichi Nuclear Power Plant (NPP), published by Ministry of Education, Culture, Sports, Science and Technology (MEXT). The evaluation results based on the information published on April 26, 2011 are described as below:

1. Ambient radiation dose around Fukushima Dai-ichi NPP

- Observation of ambient radiation dose rate at 20km or more far from Fukushima dai-ichi NPP found a relatively higher dose rate locally at several measuring points. It however does not reach the level that affects people's health.
- A part of area where the integrated dose was high value, and annual cumulative dose
 after the onset of the accident would potentially reach 20 mSv was set to be
 "Deliberate Evacuation Area".

We need to further watch a variation of dose rate carefully, considering other factors such as weather and wind direction.

2. Dust sampling in the air around Fukushima Dai-ichi NPP

- With regard to the measuring result of the dust sample collected at 20 km or more far from Fukushima dai-ichi NPP on April 24, the maximum radioactivities were 1.33 Bq/m³ (1.33×10⁻⁶ Bq/cm³) for I-131, not detected for Cs-134 and 0.730 Bq/ m³ (7.30×10⁻⁷ Bq/cm³) for Cs-137.
- For all of I-131, Cs-134 and Cs-137, the values are lower than the concentration limit (Note1).

We need to further watch a variation of dust sampling data carefully, considering other factors such as weather and wind direction.

3. Airborne monitoring

• No additional information was published regarding the airborne monitoring result.

4. Environmental sample around Fukushima Dai-ichi NPP

• Monitoring results was obtained on the land water (pond or rain), soil, fallout and sea water. Weed and land water showed relatively higher values; we further need continued measurement on the drinking water (tap water) and foods.

• No additional information was published on the seawater measuring result.

For the sea products, be aware of the information announced by the Ministry of Health, Labor and Welfare (MHLW) regarding relevant intervention.

According to the analysis of Pu in soil samples collected in the area 20–30km from Fukushima Dai-ichi NPP, Pu-238 was not detected from all samples and Pu-239+Pu240 was detected from one sample. Because of the Pu-238/Pu-239+Pu240 radioactivity concentration ratio, it seems appropriate that MEXT evaluated Pu-239+Pu240 was not emitted in the recent accident but emitted from past nuclear test in the atmosphere.

We also need to continue environmental monitoring by related organizations under the arrangement by MEXT, considering various elements such as weather change.

5. Environmental radioactivity level survey by prefecture

1) Ambient radiation dose rate

Some prefectures showed a higher value compared with the average values obtained before the accident, however, it does not affect people's health.

2) Drinking water (tap water)

- Be aware of the information related announced by the MHLW regarding relevant intervention.
- In the prefectures of Fukushima, Saitama, Tokyo and others, readings of drinking water (tap water) monitoring were 14.1 Bq/kg for radioactive iodine and 0.32 Bq/kg for radioactive cesium at maximum as far as the data on radioactivity level in drinking water by prefecture published by MEXT was evaluated. Both were lower than the indices to limit ingestion of food and drink (Note2).

We consider that further monitoring is needed on a continuous basis.

(Note)

(Note 1) Limits of the radioactivity in the air outside the peripheral monitoring area boundary as specified by the law are 5×10^{-6} Bq/cm³ for I-131, 2×10^{-5} Bq/cm³ for Cs-134 and 3×10^{-5} Bq/cm³ for Cs-137.

(Note 2) Indices to limit ingestion of drinking water shown on "Regulatory Guide of Emergency Preparedness for Nuclear Facilities" are 300 Bq/kg for radioactive iodine and 200 Bq/kg for radioactive cesium.