Major updates are as follows:

1. Nuclear Power Stations (NPSs)
   - Fukushima Dai-ichi NPS (TEPCO)
     - Accumulated water in the basement of the turbine building in Unit 2 was transferred to the miscellaneous solid waste reduction processing facilities (from 9:26, April 11 to 10:04, April 13).
     - Accumulated water in the basement of the turbine building in Unit 2 was transferred to the radioactive waste treatment facilities (from 10:29, April 13).
     - Desalination of the spent fuel pool by an ion exchange device in Unit 2 started (at 10:06, April 12)
     - Accumulated water in the basement of the turbine building in Unit 3 was transferred to the miscellaneous solid waste reduction processing facilities (from 13:31, April 10 to 11:04, April 13).
     - The spent fuel pool cooling system in Unit 4 was suspended with an alarm for the “large amount of leakage flow in a thermal exchange unit” (at 14:44, April 12) (It is estimated that the present pool temperature is 28 degrees Celsius and the increasing rate of the temperature is 0.532 degrees Celsius per hour).
   - As a result of the site investigation, the leakage of hydrazine was confirmed from the directional control check valve of the pipe for injecting hydrazine into the cooling system (at 15:04 on the same day), and therefore, the injection valve for hydrazine was shut off. The leakage amount was approximately 0.02 liters and then, it was confirmed that the leakage stopped (at 16:51 on the same day).
Also, it was confirmed that cooling water leaked from the flange part of the cooling system on the east side of the first floor of the radioactive waste treatment facilities in Unit 4 (at 15:10 on the same day). The flange was retightened (at 15:55 on the same day) and then, the leakage stopped. The leakage amount was approximately 40 liters.

The sampling results of the leaked water were as follows:

- Cs-134: 7.12x10^1 Bq/cm^3
- Cs-137: 1.05x10^1 Bq/cm^3
- Mn-54: 2.22x10^0 Bq/cm^3
- Co-60: 4.14x10^1 Bq/cm^3

(No leakage was confirmed in the area other than the two points and there was no radioactivity impact on the outside.)

The leaked hydrazine and the leaked cooling water are remaining in the building and there is no leakage to the outside.

- On the road between the reactor building in Unit 2 and that in Unit 3, the leakage of fuel (light oil) with an area of 1.5m x 1m was confirmed on the iron plate under a heavy machinery vehicle used for removing rubbles of the upper part of the reactor building in Unit 3 (at around 12:20, April 12). It was reported to the Fire Department (at around 12:40 on the same day). (There was no radioactivity impact on the outside.) As a result of the site confirmation, it was confirmed that fuel oil was dropping because of the damage of the fuel oil filter in the fuel supply line of the heavy machinery. An oil absorption mat and an oil receipt can were placed at the leakage point. The oil dropping stopped. (Fire-Defense Headquarters and Tomioka Town Fire Station investigated the site and they evaluated that this was not an accident.)

- It was confirmed in regular confirmation of the plant data that the amounts of nitrogen injection and its pressures were decreasing in Units 1, 2, and 3 (at around 1:00, April 13). For this reason, the site confirmation was conducted, which confirmed that the nitrogen supply device (nitrogen gas separation device (B)) stopped by an alarm of “malfunction of a compressor” at 1:04 (at 1:30 on the same day).

Thereafter, the high-ground nitrogen gas separation device was activated (at 3:10 on the same day), and nitrogen injection into each Unit started (at 3:46 on the same day). Also, the nitrogen separation device (B) being stopped was activated again (at 4:04 on the same day) and the nitrogen injection resumed (at 4:20 on the same day).

While the nitrogen gas separation device (B) and the high-ground nitrogen gas separation device were operated in parallel, the integrity of both devices
was being confirmed. However since there was no abnormality found, the high-ground nitrogen gas separation device stopped (at 9:25 on the same day). Since no abnormality was found afterwards in the operational state of the nitrogen gas separation device (B), nitrogen injection by the nitrogen gas separation device (B) continued.

<Instructions on Food>
Instructions of restriction on shipments (April 12)
· Char (Iwana) caught in the Su River (limited to river branches)
· Shiitake produced in Kuribara City in Miyagi Prefecture (only those grown on raw lumber in open field)
· Perch (Suzuki) caught in the sea of Sendai Bay
· Shiitake produced in Asikaga City, Kanuma City, Mouka City, Nasu-karasuyama City, Kamimikawa Town, Moteki Town, Ichigai Town, and Nasugawa Town in Tochigi Prefecture (only those grown on raw lumber in open field)
· Shiitake produced in Ootawara City in Tochigi Prefecture (only those grown on raw lumber in facilities)
· Bamboo Shoot (Takenoko) produced in Funabashi City in Chiba Prefecture

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