**Plant Status of Fukushima Daiichi Nuclear Power Station**

October 29, 2011
Tokyo Electric Power Company

<Draining Water on Underground Floor of Turbine Building (T/B)>

◇Status of highly concentrated accumulated radioactive water treatment facility and storage tank facility

[Treatment Facility]

・6/17 20:00 Full operation of radioactive material removal instruments started.
・6/24 12:00 Start of desalination facilities operation
・6/27 16:20 Circulating injection cooling started.
・8/7 16:11 Evaporative Concentration Facility has started full operation.
・8/19 19:33 We activated second cesium adsorption facility (System B) and started the treatment of accumulated water by the parallel operation of cesium adsorption instrument and decontamination instrument. At 19:41, the flow rate achieved steady state.

[Storage Facility]

・6/8～ Big tanks to store and keep treated or contaminated water have been transferred and installed sequentially.

◇Accumulated water in vertical shafts of trenches and at basement level of building

| Unit | Draining water source→Place transferred | Status |
|---|---|---|
| Unit 2 | ・Unit 2T/B→Central Radioactive Waste Treatment Facility［Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)］ | ・9:54 on October 28 - Transferring |
| Unit 3 | ・Unit 3T/B→Central Radioactive Waste Treatment Facility［Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)］ | 10:00 on October 20 - 9:16 on October 28 - Transferring |
| Unit 6 | ・Unit 6T/B→Temporary tanks | ・10/29 No transfer |
| | ・Temporary tanks→Mega float | ・10/29 No transfer |

| Place transferred | Status of Water Level (As of October 29 at 7:00) |
|---|---|
| Process Main Building | Water level: O.P.+ 3,566 mm(Accumulated total increase:4,783 mm) 156mm decrease since 7:00 on October 28 |
| Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) | Water level: O.P.+ 2,237 mm(Accumulated total increase:2,963 mm) 54mm decrease since 7:00 on October 28 |

◇Water level of the vertical shaft of the trench, T/B and R/B(As of October 29 at 7:00)

| | Vertical Shaft of Trench | T/B | R/B |
|---|---|---|---|
| Unit 1 | O.P.< + 850 mm (No change since 7:00 on October 28) | O.P.+ 4,130 mm (50mm increase since 7:00 on October 28) | O.P.+ 4,199 mm (26mm decrease since 7:00 on October 28) |
| Unit 2 | O.P.+ 2,838 mm (19mm decrease since 7:00 on October 28) | O.P.+ 2,873 mm (19mm decrease since 7:00 on October 28) | O.P.+ 2,957 mm (26mm decrease since 7:00 on October 28) |
| Unit 3 | O.P.+ 3,177 mm (13mm increase since 7:00 on | O.P.+ 2,968 mm (49mm increase since 7:00 on | O.P.+ 3,133 mm (41mm increase since 7:00 on |

| | | | |
|---|---|---|---|
| | October 28) | October 28) | October 28) |
| Unit 4 | ― | O.P.+ 2,964 mm<br>(4mm increase since 7:00 on October 28) | O.P.+ 2,987 mm<br>(1mm increase since 7:00 on October 28) |

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater(Reference) ※Since Oct 24, an approach to decrease the detection limits of radioactivity density was started.

| Place of sampling | Date of sampling | Time of sampling | Ratio of density limit (times) | | |
|---|---|---|---|---|---|
| | | | I-131 | Cs-134 | Cs-137 |
| Approx. 30m North of Discharge Channel of 5-6U of 1F | 10/28 | 8:50 | ND | 0.14 | 0.10 |
| Approx. 330m South of Discharge Channel of 1-4U of 1F | 10/28 | 8:30 | ND | ND | 0.01 |
| North Discharge Channel, 2F (Approx.10km from 1F) | 10/28 | 8:30 | ND | 0.02 | ND |

・Others: results of nuclide analysis of seawater, sampled on October 28 at 1 point around the shore and 9 points offshore of Fukushima, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of October 29 at 11:00)

| Unit | Cooling type | Status of cooling | Temperature of water in Pool |
|---|---|---|---|
| Unit 1 | Circulating Cooling System | Under operation(11:22 on August 10 -) | 21.0 ℃ |
| Unit 2 | Circulating Cooling System | Under operation(17:21 on May 31 -) | 24.0 ℃ |
| Unit 3 | Circulating Cooling System | Under operation(18:33 on June 30 -) | 22.5 ℃ |
| Unit 4 | Circulating Cooling System | Under operation(10:08 on July 31 -) | 30 ℃ |

【Unit 4】・8/20～ We started operation of desalinating facility of the spent fuel pool.

<Water Injection to Pressure Containment Vessels> (As of October 29 at 11:00)

| Unit | Status of injecting water | Feed-water nozzle Temp. | Reactor pressure vessel Bottom temp. | Pressure of primary containment vessel |
|---|---|---|---|---|
| Unit 1 | Injecting freshwater (Feed Water System: Approx. 4.2 $m^3$/h) | 64.7℃ | 66.5℃ | 122.2 kPaabs |
| Unit 2 | Injecting freshwater (Feed Water System: Approx. 2.8 $m^3$/h,Core Spray System: Approx. 7.0 $m^3$/h) | 72.0℃ | 76.1℃ | 114 kPaabs |
| Unit 3 | Injecting freshwater (Feed Water System: Approx. 2.6 $m^3$/h,Core Spr System: Approx. 8.1 $m^3$/h) | 65.8℃ | 71.0℃ | 101.5 kPaabs |

【Unit 1】 ・10/29 15:30 we changed the water injection rate to Reactor, Unit 1 through Feed Water System to approx.5.5 $m^3$/h.

【Unit 4】【Unit 5】【Unit 6】No particular changes in parameters.

<Others>

・10/7～ Continuously implementing water spray using water after purifying accumulated water of Unit 5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.

・10/27 While the staff from a cooperating company was conducting an annual checkup of the ceiling crane, which handles used fuel casks, a crack was found on the casing of the connection point

of the vehicle for driving. We will inspect the further details of the connection point.

- 10/28 12:53 We started up the exhaust fan of gas management system of Primary Containment Vessel in the Reactor Building of Unit 2 and commenced commissioning. After confirming that the system operates normally, at 18:00, we put the system in operation.
- 10/28 14:20 One TEPCO employee conducting document check at administrative building removed the face mask when that employee felt sick and threw up as his mask was too tight. For safety's sake, we checked him by whole body counter and confirmed that there was no intake of radioactive substances.
- 10/29 8:30 Two workers from the cooperating companies were injured during dismantling of the large crane used to install the cover for the Reactor Building, Unit 1 within the site boundary. At 10:35, we transported one worker to Fukushima Medical University Hospital by an air ambulance. At 14:20, we transported the other worker to Sogo Iwaki Kyoritsu Hospital, Iwaki City.

End