

Plant Status of Fukushima Daiichi Nuclear Power Station

September 20, 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 started.
- 6/24 12:00 Treatment started at desalination facilities
- 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.
- 9/19 14:16 As we found water leak from water desalinations (reverse osmosis membrane system) (3), we stopped the operation of water desalinations (2) and (3). The water desalinations (3) was isolated and the water desalinations (2) was restarted at 14:50 on 9/19.

[Storage Facility]

From June 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 |
|------|---|----------------------------|
| 2u | ·2u Vertical Shaft of Trench → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)] | ·9/13 9:51 ~ Transferring |
| 3u | ·3u T/B Central Radioactive Waste Treatment Facility [Process Main Building] | ·9/15 9:54 ~ Transferring |
| 6u | ·6u T/B → temporary tanks | ·9/20 10:00 ~ Transferring |

| Transfer to: | Status of Water Level (as of 7:00 on 9/20) |
|---|---|
| Process Main Building | Water level: O.P.+ 4,616mm (Accumulated total increase: 5,833mm) 58 mm decrease from 9/19 7:00 |
| Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) | Water level: O.P.+ 1,935mm (Accumulated total increase: 2,661mm) 19 mm decrease from 9/19 7:00 |

Water level at the vertical shaft of the trench and T/B (as of 9/20 7:00)

| | Vertical Shaft of Trench | T/B | R/B |
|----|--|---|---|
| 1u | O.P. <+850mm (No change since 9/19 7:00) | O.P. +4,920mm (No change since 9/19 7:00) | O.P. +4,579mm (49 mm decrease since 9/19 7:00) |
| 2u | O.P. +2,753mm (7mm decrease since 9/19 7:00) | O.P. +2,812mm (11mm since 9/19 7:00) | O.P. +2,876mm (1mm decrease since 9/19 7:00) |
| 3u | O.P. +3,105mm (10mm decrease since 9/19 7:00) | O.P. +2,901mm (9mm decrease since 9/19 7:00) | O.P. +3,003mm (No change since 9/19 7:00) |
| 4u | - | O.P. +2,945mm (9mm decrease since 9/19 7:00) | - |

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

* Sampling wasn't/won't be conducted during the period from Sep 17 to 22 due to the typhoon.

<Cooling of Spent Fuel Pools> (as of 9/20 11:00)

| Unit | Cooling type | Status of cooling | Temperature of water in Pool |
|------|----------------------------|---------------------------|------------------------------|
| 1u | Circulating Cooling System | Operating from 8/10 11:22 | 29.0 |
| 2u | Circulating Cooling System | Operating from 5/31 17:21 | 33.0 |
| 3u | Circulating Cooling System | Operating from 6/30 18:33 | 30.9 |
| 4u | Circulating Cooling System | Operating from 7/31 10:08 | 38 |

[Unit 4] 8/20 ~ We started operation of desalinating facility of the spent fuel pool.

<Water Injection to Pressure Containment Vessels> (as of 9/20 11:00)

| Unit | Status of injecting water | Temp. of feed-water nozzle | Bottom of reactor pressure vessel | Pressure of Primary Containment Vessel |
|------|---|----------------------------|-----------------------------------|--|
| 1u | Injecting freshwater (approx. 3.5m ³ /h) | 81.0 | 82.4 | 124.1 kPaabs |
| 2u | Injecting freshwater (Feed Water System: approx. 3.5m ³ /h CS System: approx. 4.1 m ³ /h) | 103.2 | 111.7 | 112 kPaabs |
| 3u | Injecting freshwater (Feed Water System: approx. 3.9m ³ /h CS System: approx. 8.1 m ³ /h) | 86.2 | 88.3 | 101.5 kPaabs |

[Unit 4] [Unit 5] [Unit 6] No particular changes in parameters.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by remote control to improve working conditions.
- 6/3 ~ Restoration works of port related facilities has been under operation.
- 7/12~ Construction work of installing steel pipe sheet pile against water leakage in the water intake channel.
- 6/28 ~ Main construction work for installing the cover for the reactor building of Unit 1
- 8/10 ~ 9/9 Implemented setting up iron framework of the cover for the reactor building of Unit 1
- 9/10 Installment of wall panel for cover of reactor building of Unit1 started.
- 9/20
approx. 9:40 When a worker of a partner company was moving an on-site transformer of Unit 4 outside, the worker's hand touched the filter of the protective mask and the filter temporarily came off. After the measurement by the whole body counter, it was confirmed that radioactive materials wasn't taken in.

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