

Plant Status of Fukushima Daiichi Nuclear Power Station

October 16, 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.
- 10/4 11:38 Isolated circulating operation of the decontamination instrument has started in order to purify the water in the waste treatment water tank.
- 10/16 14:00 As the purification of water inside waste water treatment tank was confirmed, single circulating operation of decontamination facility was stopped. At the moment, as sufficient decontamination capacity is secured by Cesium adsorption facility (single circulating operation), it is not necessary to start up the facility immediately.
 - * This was in response to the anticipation that high radioactive sludge water was flowed into the waste water treatment tank when drained off the primary reaction tank to replace stirrer as a result of the investigation in relation to the event decontamination facility was stopped due to high radiation was observed from the treated water after decontamination facility on September 15.

[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 T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·10/13 14:17 ~ Transferring
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·10/13 14:02 ~ Transferring
6u	·6u T/B → temporary tanks	·10/14 10:00 ~ 16:00 Transferred

Transfer to:	Status of Water Level (As of October 16 at 7:00)
Process Main Building	Water level: O.P.+ 2,554 mm(Accumulated total increase:3,771 mm) 19mm increase since 10/15, 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,612 mm(Accumulated total increase:3,120 mm) 218mm increase since 10/15, 7:00

Water level at the vertical shaft of the trench and T/B (as of 10/16 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P.< + 850 mm (No change since 10/15, 7:00)	O.P.+ 4,936 mm (3mm decrease since 10/15, 7:00)	O.P.+ 4,402 mm (16mm increase since 10/15, 7:00)
2u	O.P.+ 2,971 mm (2mm decrease since 10/15, 7:00)	O.P.+ 3,001 mm (2mm decrease since 10/15, 7:00)	O.P.+ 3,084 mm (1mm decrease since 10/15, 7:00)
3u	O.P.+ 3,291 mm (33mm decrease since 10/15, 7:00)	O.P.+ 2,996 mm (48mm decrease since 10/15, 7:00)	O.P.+ 3,158 mm (47mm decrease since 10/15, 7:00)
4u	-	O.P.+ 3,103 mm (30mm decrease since 10/15, 7:00)	O.P.+ 3,126 mm (29mm decrease since 10/15, 7:00)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

*Results of nuclide analysis of seawater, sampled on October 15 at 2 points around the Fukushima coastal area, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 10/16 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	25.5
2u	Circulating Cooling System	Operating from 5/31 17:21	29.0
3u	Circulating Cooling System	Operating from 6/30 18:33	27.7
4u	Circulating Cooling System	Operating from 7/31 10:08	37

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

<Water Injection to Pressure Containment Vessels> (as of 10/16 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 (Feed Water System: Approx. 3.7 m ³ /h)	71.6	73.5	120.4 kPaabs
2u	Injecting freshwater (Feed Water System: Approx. 3.4 m ³ /h, Core Spray System: Approx. 7.0 m ³ /h)	76.5	82.5	119 kPaabs
3u	Injecting freshwater (Feed Water System: Approx. 2.1 m ³ /h, Core Spray System: Approx. 8.1 m ³ /h)	70.3	72.8	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.
- 6/28 ~ 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 ~ 10/14 Installment of wall panel for cover of reactor building of Unit 1
- 10/15 ~ We are continuously implementing related work for installing a cover over Unit 1 Reactor Building.
- 10/7 ~ We are spraying purified accumulated water at Unit 5 and 6 continually in order to prevent dust scattering and potential fire outbreaks from the cut down trees.