

Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 11:00 on December 16 2018

[Note]
Some indicators might not be functioning properly beyond the normal condition for usage affected by the earthquake and subsequent events. We comprehensively evaluate situation in plants using all the available information from indicators and also focusing on trends, taking uncertainty of indicators into consideration.

	Unit 1	Unit 2	Unit 3	Unit 4
Status of water injection to the reactor	FDW line 1.5m ³ /h CS line 1.3m ³ /h (as of 11:00 , 12/16)	FDW line 1.4m ³ /h CS line 1.4m ³ /h (as of 11:00 , 12/16)	FDW line 1.4m ³ /h CS line 1.4m ³ /h (as of 11:00 , 12/16)	
Temperature at the bottom of RPV	VESSEL BOTTOM HEAD (TE-263-69L1) : 17.8°C VESSEL ABOVE SKIRT JOINT (TE-263-69H1) : 17.7°C VESSEL DOWNCOMMER (TE-263-69G2) : 17.7°C (as of 11:00 , 12/16)	VESSEL WALL ABOVE BOTTOM HEAD (TE-2-3-69H3) : 24.1°C RPV TEMPERATURE (TE-2-3-69R) : 21.3°C (as of 11:00 , 12/16)	VESSEL BOTTOM ABOVE SKIRT JOT (TE-2-3-69F1) : 24.2°C VESSEL WALL ABOVE BOTTOM HEAD (TE-2-3-69H1) : 22.3°C (as of 11:00 , 12/16)	
Temperature in PCV	HVH-12A RETURN AIR (TE-1625A) : 18.2°C HVH-12A SUPPLY AIR (TE-1625F) : 17.7°C (as of 11:00 , 12/16)	RETURN AIR DRYWELL COOLER (TE-16-114B) : 24.5°C SUPPLY AIR D/W COOLER HVH2-16B (TE-16-114G#1) : 24.3°C (as of 11:00 , 12/16)	RETURN AIR DRYWELL COOLER (TE-16-114A) : 23.9°C SUPPLY AIR D/W COOLER (TE-16-114F#1) : 21.8°C (as of 11:00 , 12/16)	
Pressure in PCV	1.29kPa g (as of 11:00 , 12/16)	1.59kPa g (as of 11:00 , 12/16)	0.35kPa g (as of 11:00 , 12/16)	
Flow rate of nitrogen gas injection to Reactors ※3	RPV (RVH) : 14.07Nm ³ /h (JP-A) : 14.54Nm ³ /h (JP-B) : -Nm ³ /h PCV : -Nm ³ /h (as of 11:00 , 12/16) ※4	RPV : 10.55Nm ³ /h PCV : -Nm ³ /h (as of 11:00 , 12/16) ※4	RPV : 17.44Nm ³ /h PCV : -Nm ³ /h (as of 11:00 , 12/16) ※4	
Outlet flow from PCV gas control system	22.2m ³ /h (as of 11:00 , 12/16)	14.81Nm ³ /h (as of 11:00 , 12/16)	18.66Nm ³ /h (as of 11:00 , 12/16)	
Hydrogen concentration in PCV ※1	System A : 0.04vol% System B : 0.00vol% (as of 11:00 , 12/16)	System A : 0.09vol% System B : 0.08vol% (as of 11:00 , 12/16)	System A : 0.06vol% System B : 0.05vol% (as of 11:00 , 12/16)	
Radioactive concentration in PCV (Xe 135) ※2	System A : indicated value 8.60E-04 Baq/cm ³ detection limit 3.90E-04 Baq/cm ³ System B : indicated value 1.18E-03 Baq/cm ³ detection limit 3.40E-04 Baq/cm ³ (as of 11:00 , 12/16)	System A : indicated value ND Baq/cm ³ detection limit 1.5E-01 Baq/cm ³ System B : indicated value ND Baq/cm ³ detection limit 1.4E-01 Baq/cm ³ (as of 11:00 , 12/16)	System A : indicated value ND Baq/cm ³ detection limit 2.3E-01 Baq/cm ³ System B : indicated value ND Baq/cm ³ detection limit 2.3E-01 Baq/cm ³ (as of 11:00 , 12/16)	
Temperature in the spent fuel pool	25.8°C (as of 11:00 , 12/15) ※6	31.3°C (as of 11:00 , 12/6) ※5	31.0°C (as of 11:00 , 12/16)	17.2°C (as of 11:00 , 12/16)
FPC skimmer surge tank level	3.49m (as of 11:00 , 12/15) ※6	5.04m (as of 11:00 , 12/16)	3.31m (as of 11:00 , 12/16)	22.53×100mm (as of 11:00 , 12/16)

[Information about measurements]

※1 : In case that the instrument indicates minus hydrogen density, "0%" is recorded. (Because there's the possibility of minus indication due to the instrumental precision when hydrogen density is very low.)

The hydrogen concentration in the PCV gas control system is provided.

※2 : In case that the instrument reading is below measurable limit, "ND" is recorded. The radioactivity density (Xe135) in the PCV gas control system is provided.

※3 : Flow rate values are adjusted according to the temperature and the pressure under usage conditions.

※4 : Nitrogen gas injection is under suspension.

※5 : Cooling system of the Fuel Pool of Unit 2 is stopped. Therefore, Temperature in the spent fuel pool of Unit 2 show close data

The estimated water temperature of spent fuel pool at the end of the planned outage scheduled on 18:00 December 21 is approximately 41.7 °C.

※6 : Due to the planned outage at circulating water cooling system for spent fuel pool of Unit 1, recent data are shown for both temperature of spent fuel pool at Unit 1 and water level of FPC skimmer surge tank.

The expected temperature increase at the SFP water is around -0.010C/h.