Fukushima Daiichi Nuclear Power Station Plant Parameters

[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	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Status of water injection to the reactor	Fresh water feeding Feed water system 4.7 m²/h, CS line 2.0 m²/h (as of 5:00 , 3/4)	Fresh water feeding Feed water system 3.0 m³/h, CS line 6.0 m³/h (as of 5:00 , 3/4)	Fresh water feeding Feed water system 1.9 m²/h, CS line 5.0 m²/h (as of 5:00 , 3/4)		%2 (Heat removal of the reactor is functioning. Water injection is unnecessary)	
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1860 mm X3 (as of 5:00 , 3/4)	Fuel range A:Downscale%3Fuel range B:-2114 mm%3(as of 5:00, 3/4)%3	Fuel range A:-1636 mm %3 Fuel range B:-2200 mm %3 (as of 5:00 , 3/4) %3		Stoppage range 2518 mm (as of 6:00 , 3/4)	Stoppage range 1974 mm (as of 6:00 , 3/4)
Pressure in the reactor	System A:-0.005 MPa g System B:-MPa g (as of 5:00 , 3/4)	System A:0.014 MPa g System B:-MPa g (as of 5:00 , 3/4)	System A: Downscale (A) System B: Downscale (C) (as of 5:00 , 3/4)		0.010 MPa g (as of 6:00 , 3/4)	0.018 MPa g (as of 6:00 , 3/4)
Vater temperature of the reactor	(Since there is no water inflow in the system it is impossible to collect the data)			38.4 °C (as of 6:00 , 3/4)	26.2 °C (as of 6:00 , 3/4)	
Temperature around the reactor vessel	Temperature in feed-water nozzle:23.7 [°] C Temperature at reactor vessel bottom:23.7 [°] C (as of 5:00 , 3/4)	Temperature in feed-water nozzle:42,8 °C Temperature at reactor vessel bottom:43,9 °C (as of 5:00 , 3/4)	Temperature in feed-water nozzle:43.2 °C Temperature at reactor vessel bottom:53.7 °C (as of 5:00 , 3/4)	- *2	*2 (monitoring through water temperature of the reactor)	
Pressure in D/W · S/C	D/W:0.1078 MPa abs S/C:0.125 MPa abs %3 (as of 5:00 , 3/4)	D/W:0.117 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1861 MPa abs (as of 5:00 , 3/4)	(Monitoring is unnecessary since all fuel are takeoff)	%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
D/W Atmosphere temperature	RPV bellow seal:24.7 °C HVH return:24.6 °C (as of 5:00 , 3/4)	RPV bellow seal:45.2 °C %1 HVH return:51.7 °C %3 (as of 5:00, 3/4) %3	RPV bellow seal:55.0 °C			
CAMS radiation monitor	D/W(A):1.00E-02Sv/h	D/W(A):6.25E+00Sv/h (B)2.52E+00Sv/h S/C(A):5.00E-02Sv/h (B)9.62E+00Sv/h (as of 5:00, 3/4) %1	D/W(A):2.85E+00Sv/h & %3 (B):1.83E+00Sv/h S/C(A):2.30E-01Sv/h (B):2.20E-01Sv/h (as of 5:00 , 3/4)			
Temperature in S/C	System A:32.7 °C System B:32.7 °C (as of 5:00 , 3/4)	System A:33.8 ℃ System B:33.7 ℃ (as of 5:00 , 3/4)	System A:28.3 °C System B:28.2 °C (as of 5:00 , 3/4)			
Hydrogen concentration in PCV	0.00vol% (as of 5:00 , 3/4)	0.06vol% (as of 5:00 , 3/4) **3	_			
Designed usable D/W pressure	0.384MPa g (0.485MPa abs)	0,384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)			
Designed usable D/W maximum pressure	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	_	-	
Temperature in the spent fuel pool	26.5℃ (as of 5:00 , 3/4)	13.3℃ (as of 5:00 , 3/4)	13.0°C (as of 5:00 , 3/4)	24°C (as of 5:00 , 3/4)	17.4 °C (as of 6:00 , 3/4)	23.0 °C (as of 6:00 , 3/4)
FPC skimmer surge tank level	4220mm (as of 5:00 , 3/4)	3830mm (as of 5:00 , 3/4)	5000mm (as of 5:00 , 3/4)	5655mm (as of 5:00 , 3/4)	*	\$2
Power source	Receiving offsite	Receiving offsite power (P/C2C) Receiving offsite power (P/C4)	Receiving offsite power	
Others				Temperature in the Common Spent Fuel Storage: 17 °C (as of 9:50, 3/3)	5u : SHC mode (from 10:55 ,2/29)	6u :SHC mode (from 11:17 ,2/23)

Pressure conversion Gauge pressure(MPa g) = Absolute pressure(MPa abs) - atmospheric pressure (normal atmospheric pressure0.1013 MPa) Absolute pressure(MPa abs) = Gauge pressure(MPa g) + atmospheric pressure (normal atmospheric pressure0.1013 MPa) %1 : Instrument failure%2 : Not covered for colleting data

%3 : continuously monitoring the status

Fukushima Daiichi Nuclear Power Station Supplemental explanation for the plant parameters

Ch number or number of Item Recording manner Measurement manner systems Status of water Water inflow (CS line : Core Spray system) System 1/1 Temporary injection to the reactor System A 1/1Ch Water level in the Data measured by the water gauge, which monitor the fuel range Temporary reactors System B 1/1Ch One representing value is noted among multiple data on each System A, B. 1/1 system (Unit 1/2) Pressure in the Temporary Readings of temporary instruments are represented in A system for Unit 1 and 2. System A 1/2Ch, System B 1/2Ch (Unit 3) reactor Temperature in the Since there is no water inflow at the points, where thermometers are set, no data is collected. reactor Point of Feed-water nozzle 1/4Ch emperature around Data measured at feed-water nozzle and at reactor vessel bottom (1U, 3U: RPV Bottom Head, 2U: RPV Wall 1/2Ch (Unit 1) Temporary reactor vessel bottom the reactor vessel Above Bottom Head) are noted among multiple data to view the whole picture. 1/1Ch (Unit2/3) (D/W) wide range 1 / 1Ch (Unit 1) Pressure in Data from temporary instrument. 1/4Ch (Unit 2/3) Temporary D/W · S/C (D/W: Dry Well, S/C: Suppression Chamber) (S/C) 1/1system (Unit 1/2) 1/2Ch (Unit 3) Data at upper point (RPV Bellows Air) and middle point (HVH return) are noted among multiple data to view the RPV Bellows Air 1/5Ch D/W Atmosphere Temporary whole picture. (RPV : Reactor Pressure Vessel、HVH : Heating Ventilating Handling Unit) D/W HVH return 1/5Ch temperature System A 1/1Ch D/W CAMS radiation Data from temporary instrument. System B 1/1Ch Temporary System A 1/1Ch monitor (CAMS : Containment Atmospheric Monitoring System) S/C System B 1/1Ch System A1/4Ch (Unit 1), 8Ch (Unit 2/3) Temperature in S/C Data from temporary instrument. One representing value is noted among multiple data on each System A, B. Temporary System B1 / 4Ch (Unit 1) , 8Ch (Unit 2/3) Data measured by the PCV gas management system. Hydrogen Temporary System 1 / 1 concentration in PC (PCV : Primary Containment Vessel) Data from temporary instrument. 1/1Ch (Unit 2) Temperature in the Temporary spent fuel pool (Non-thermal mode : Urgent Heat load Mode, SHC mode : Shut down Cooling Mode) 1/1 system (Unit 1/3/4) Unit2, 4 are the FPC skimmer surge tank level measured temporary instrument. FPC skimmer surge · Unit1, 3 are the FPC skimmer surge tank level estimated from temporary pressure gages.(reference value) (FPC : Temporary 1/1system tank level Fuel Pool Cooling system)

■Supplemental explanation for each parameter

■Supplemental explanation for notes

ltem	Contents	Status As of 06:00 on March 4		
Instrument failure	Instrument failure : down of instrument reading (over) scale/failure of instrument	Unit 1 CAMS D/W radiation monitor Unit 2 Pressure in S/C, RPV bellow air temperature,CAMS D/W(B) radiation monitor, CAMS S/C(B) radiation monitor Unit 3 —		
	Unit4: Monitoring is not implemented since all fuel are takeoff. Unit5/6: Monitoring is not implemented since heat removal of reactor is functioning	-		
Continuously monitoring the status	Inaccurate Data defined from relation with other Parameters such as negative figure.	Unit 1 Reactor water level(B), Pressure in S/C Unit 2 Reactor water level, HVH return temperature Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor Hydrogen Density of PCV: 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.)		