## Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 12:00 on February 27

[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	U	Jnit 4	Unit 5	Unit 6
Status of water injection to the reactor	Fresh water feeding Feed water system $4.5{\rm m}^3/h$ (as of $11.00$ , $2/27$ )	Fresh water feeding Feed water system 3.0 m²/h, CS line 5.8 m²/h (as of 11:00 , 2/27 )	Fresh water feeding Feed water system 1.8 ${\rm m}^3/{\rm h},$ CS line 5.1 ${\rm m}^3/{\rm h}$ (as of 11:00 , 2/27 )			*2 (Heat removal of the reactor is functioning, Water injection is unnecessary)	
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1730 mm %3 (as of 11:00 , 2/27)	Fuel range A: Downscale %: Fuel range B:-2116 mm %: (as of 11:00 , 2/27)		%3 %3		Stoppage range 2508mm (as of 12:00 , 2/27)	Stoppage range 1970mm (as of 12:00 , 2/27)
Pressure in the reactor	System A:-0.005 MPa g System B:-MPa g (as of 11:00 , 2/27)	System A:0.014 MPa g System B:-MPa g (as of 11:00 , 2/27)	System A:Downscale System B:Downscale (as of 11:00 , 2/27)	(A) %3 (C) %3		0.011 MPa g (as of 12:00 , 2/27)	0.021 MPa g (as of 12:00 , 2/27)
Water temperature of the reactor	(Since there is no water inflow in the system it is impossible to collect the data)					35.9 ℃ (as of 12:00 , 2/27)	25.7 ℃ (as of 12:00 , 2/27)
Temperature around the reactor vessel	Temperature in feed-water nozzle:24.0 °C Temperature at reactor vessel bottom:24.0 °C (as of 11:00 , 2/27)	Temperature in feed-water nozzlei42.6 °C Temperature at reactor vessel bottomi44.3 °C (as of 11:00 , 2/27)	Temperature in feed-water nozzle:42.2 °C Temperature at reactor vessel bottom:52.8 °C (as of 11:00 , 2/27)	*2 (Mon	itoring is	*2 (monitoring through water temperature of the reactor)	
Pressure in D/W • S/C	D/W:0.1066 MPa abs S/C:0.120 MPa abs %3 (as of 11:00 , 2/27)	D/W:0,117 MPa abs S/C: Downscale	(as of 11:00 , 2/27)	unnece	essary all fuel are	%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
D/W Atmosphere temperature	RPV bellow seal:24.8 °C HVH return:25.1 °C (as of 11:00 , 2/27)	RPV bellow seal:47.1 °C		*3			
CAMS radiation monitor	D/W(A):1.00E-02Sv/h	D/W(A):6.31E+00Sv/h (B):2.52E+00Sv/h S/C(A):5.00E-02Sv/h (B):8.00E+00Sv/h (as of 11:00 , 2/27)	S/C(A):2.30E-01Sv/h	*3			
Temperature in S/C	System A:33.2 °C System B:33.1 °C (as of 11:00 , 2/27)	System A:33.3 °C System B:33.1 °C (as of 11:00 , 2/27)	System A:28.7 °C System B:28.6 °C (as of 11:00 , 2/27)				
Hydrogen concentration in PCV	0.00vol% (as of 11:00 , 2/27 ) %3	0.07vol% (as of 11:00 , 2/27 )					
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 11:00 , 2/27 )	13.4°C (as of 11:00 , 2/27 )	13.4℃ (as of 11:00 , 2/27 )	(as c	25℃ of 11:00, 2/27)	17.8 ℃ (as of 12:00 , 2/27)	23.0 °C (as of 12:00 , 2/27)
FPC skimmer surge tank level	2860mm (as of 11:00 , 2/27 )	2630mm (as of 11:00 , 2/27 )	4130mm (as of 11:00 , 2/27 )	(as c	4573mm (as of 11:00, %2/27)		
Power source	Receiving offsite power (P/C2C) Receiving offsite power (P/C4D		/C4D)		Receiving offsite power		
Others				Comr Fue	erature in the mon Spent el Storage: 18°C 9:30, 2/27)	5u : SHC mode (from 14:28 ,2/15)	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

■Supplemental explanation for each parameter

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

## ■Supplemental explanation for notes

Item	Contents	Status As of 12:00 on February 27				
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 —				
Not covered for collecting data	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 Unit1-2 Hydrogen Density of PCV: In case that the instrument indicates minus hydrogen density, "O%" is recorded. (Because there's the possibility of minus indication due to the instrumental precision when hydrogen density is very low.)				