## Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 12:00 on February 18

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.

[Note]

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Fresh water feeding Feed water system 4.4 ㎡/h, CS line 1.7 ㎡/h (as of 11:00 , 2/18 )	Fresh water feeding Feed water system 7.6㎡/h, CS line 10.0㎡/h (as of 11:00 , 2/18 )	Fresh water feeding Feed water system 3,0 m²/h, CS line 5,0 m²/h (as of 11:00 , 2/18 )		%2 (Heat removal of the reactor is function is unnecessary)	
Fuel range A: Downscale Fuel range B:-1750 mm %3 (as of 11:00 , 2/18)	Fuel range A: Downscale %3 Fuel range B:-2117 mm %3 (as of 11:00 , 2/18)	Fuel range A:-1760 mm         %3           Fuel range B:-2142 mm         %3           (as of 11:00 , 2/18)         %3		Stoppage range 2515mm (as of 12:00 , 2/18)	Stoppage range 2098mm (as of 12:00 , 2/18)
System A:-0.005 MPa g System B:-MPa g (as of 11:00 , 2/18)	System A:0.008 MPa g System B:-MPa g (as of 11:00 , 2/18)			0.012 MPa g (as of 12:00 , 2/18)	0.021 MPa g (as of 12:00 , 2/18)
(Since there is no water inflow in the system it is impossible to collect the data)			35.9 °C (as of 12:00 , 2/18)	28.3 °C (as of 12:00 , 2/18)	
Temperature in feed-water nozzle'24.2 °C Temperature at reactor vessel bottom'24.3 °C (as of 11:00 , 2/18)	Temperature in feed-water nozzle'30.8 °C Temperature at reactor vessel bottom'29.9 °C (as of 11:00 , 2/18)	Temperature in feed-water nozzle:40.2 °C Temperature at reactor vessel bottom:48.7 °C (as of 11:00 , 2/18)	2 (Monitoring is	*2 (monitoring through water temperature of the reactor)	
D/W:0.1060 MPa abs S/C:0.122 MPa abs %3 (as of 11:00 , 2/18)	D/W:0.113 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1887 MPa abs (as of 11:00 , 2/18)	unnecessary since all fuel are takeoff)	%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
RPV bellow seal:25.4 °C HVH return:25.6 °C (as of 11:00 , 2/18)	RPV bellow seal 36.8 °C %3 HVH return 37.3 °C %3 (as of 11:00 , 2/18)	RPV bellow seal:52.0 °C 33 HVH return:41.3 °C (as of 11:00 , 2/18)			
D/W(A):1,00E-02Sv/h	D/W(A):6.41E+00Sv/h (B):2.47E+00Sv/h S/C(A):5.00E-02Sv/h (B):4.95E+00Sv/h (B):4.95E+00Sv/h (as of 11:00 , 2/18)	D/W(A):2.91E+00Sv/h %3 (B):1.87E+00Sv/h S/C(A):2.30E-01Sv/h (B):2.20E-01Sv/h (as of 11:00,2/18)	_		
System A:33.9 °C System B:33.9 °C (as of 11:00 , 2/18)	System A:34.5 °C System B:34.2 °C (as of 11:00 , 2/18)	System A:29.2 ℃ System B:29.2 ℃ (as of 11:00 , 2/18)			
0.01vol% (as of 11:00 , 2/18 ) %3	0.06vol% (as of 11:00 , 2/18 )	-			
0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	0,384MPa g (0.485MPa abs)			
0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	_		
25.0°C (as of 11:00 , 2/18 )	12.3°C (as of 11:00 , 2/18 )	14.6℃ (as of 11:00 , 2/18 )	24°C (as of 11:00 , 2/18 )	17.7 °C (as of 12:00 , 2/18)	21.0 ℃ (as of 12:00 , 2/18)
3960mm (as of 11:00 , 2/18 )	4510mm (as of 11:00 , 2/18 )	3660mm (as of 11:00 , 2/18 )	2339mm (as of 11:00 , 2/18 )		
Receiving offsite power (P/C2C) Receiving		Receiving offsite power (P/C4D)	1	Receiving offsite power	
			Temperature in the Common Spent Fuel Storage: 16°C (as of 9:50, 2/18)	5u : SHC mode (from 14:28 ,2/15)	6u : SHC mode (from 17:52 ,2/16)
	Fresh water feeding         Fresh water system 4.4 ml/h, CS line 1.7 ml/h         (as of 11:00, 2/18)         Fuel range A: Downscale         Fuel range B:-1750 mm         (as of 11:00, 2/18)         System A:-0.005 MPa g         System B:-MPa g         (as of 11:00, 2/18)         Concerns         D/W:0.1060 MPa abs         S/C.0122 MPa abs         MPV bellow seal:25.4 °C         HVH return:25.6 °C         (as of 11:00, 2/18)         D/W(A):1.00E-02Sv/h         %1         (B):6.70E-01Sv/h         (B):7.34E+00Sv/h         %1         (B):7.34E-01Sv/h         (as of 11:00, 2/18)         System B:33.9 °C         (as of	Fresh water feeding Feed water system 7.6 m²/h, CS line 1.7 m²/h (as of 11.00, 2/18)         Fresh water feeding Feed water system 7.6 m²/h, CS line 10.0 m²/h (as of 11.00, 2/18)           Fuel range A: Downscale Fuel range B: 1750 mm (as of 11.00, 2/18)         #33         Fuel range A: Downscale Fuel range B: 2117 mm (as of 11.00, 2/18)         #33           System A: OOVS MPa g (as of 11.00, 2/18)         System B: MPa g (as of 11.00, 2/18)         System B: MPa g (as of 11.00, 2/18)         System Could B (as of 11.00, 2/18)           Concentration of the system in the system 2008 C Temperature at reactor vessel bottom:24.3 'C (as of 11.00, 2/18)         Temperature in feed-water nozzle:30.8 'C Temperature at reactor vessel bottom:29.9 'C (as of 11.00, 2/18)           D/W0.1060 MPa abs S/CC DOWNSCALE         B/W bellow seal:36.8 'C (as of 11.00, 2/18)         #33           D/W0.113 MPa abs S/CC DOWNSCALE         #34           They bellow seal:36.8 'C (as of 11.00, 2/18)         #33           D/W0.11060 Dec 25.v/h (as of 11.00, 2/18)         #34           D/W0.11060-025.v/h (B): 7.34E+005.v/h (B): 7.	Fresh water feeding feed water system 44.mi/h, CS line 17.mi/h (as of 11300, 2/18)         Fresh water feeding feed water system 30.mi/h, CS line 50.mi/h (as of 11300, 2/18)           Fuel range A: Downscale fuel	Free!         water         feed/water         water         feed/water         water         feed/water         feed/water <th< td=""><td>Freel water feeding freed water feeding for dwater feeding feed water feeding feed feed water feeding feed feed water feed feed water feeding feed feed water feed feed feed feed feed feed feed feed</td></th<>	Freel water feeding freed water feeding for dwater feeding feed water feeding feed feed water feeding feed feed water feed feed water feeding feed feed water feed feed feed feed feed feed feed feed

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

ltem	Recording manner	Measurement manner	Ch number or number of systems	
Status of water injection to the reactor	Water inflow (CS line : Core Spray system)	Temporary	System 1 / 1	
Water level in the reactors	Data measured by the water gauge, which monitor the fuel range	Temporary	System A 1/1Ch System B 1/1Ch	
Pressure in the reactor	One representing value is noted among multiple data on each System A, B. Readings of temporary instruments are represented in A system for Unit 1and 2.	Temporary	1 ∕ 1 system (Unit 1/2) System A 1 ∕ 2Ch, System B 1 ∕ 2Ch (Unit 3)	
Temperature in the reactor	Since there is no water inflow at the points, where thermometers are set, no data is collected.	—	_	
Temperature around the reactor vessel	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.	Temporary	Point of Feed-water nozzle 1/4Ch reactor vessel bottom 1/2Ch (Unit 1) 1/1Ch (Unit2/3)	
Pressure in D/W • S/C	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)	
	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)	Temporary	RPV Bellows Air 1 / 5Ch D/W HVH return 1 / 5Ch	
CAMS radiation monitor	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	
Temperature in S/C	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)	
Hydrogen concentration in PCV	Data measured by the PCV gas management system. (PCV : Primary Containment Vessel)	Temporary	System 1 / 1	
Temperature in the spent fuel pool	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)	
FPC skimmer surge tank level	<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	

## ■Supplemental explanation for notes

Item	Contents	Status As of 12:00 on February 18		
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, 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, RPV bellow air temperature,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.)		