## Fukushima Daiichi Nuclear Power Station Plant Parameters

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.

## As of 12:00 on January 19

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 4.5 m²/h, CS line 1.9 m²/h (as of 11:00 , 1/19 )	system 4.5 m²/h, CS line 1.9 m²/h Feed water system 4.0 m²/h, CS line 6.0 m²/h Feed water system 4.0 m²/h, CS line 5.0 m²/h			2 ( Heat removal of the reactor is functioning. Water injection is unnecessary )	
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1830 mm 3 (as of 11:00 , 1/19)	Fuel range A: Downscale 3 Fuel range B:-2119 mm 3 (as of 11:00 , 1/19)	Fuel range A:-2227 mm 3 Fuel range B:-2216 mm 3 (as of 11:00, 1/19)		Stoppage range 2502mm (as of 12:00, 1/19)	Stoppage range 2086mm (as of 12:00 , 1/19)
Pressure in the reactor	System A:-0.005 MPa g System B:-MPa g (as of 11:00 , 1/19)	System A:0.004 MPa g System B:-MPa g (as of 11:00 , 1/19)	System A: Downscale (A) System B: Downscale (C) (as of 11:00, 1/19)		0.012 MPa g (as of 12:00, 1/19)	0.018 MPa g (as of 12:00 , 1/19)
Water temperature of the reactor	( Since the	( Since there is no water inflow in the system it is impossible to collect the data )			30.9 (as of 12:00, 1/19)	26.9 (as of 12:00 , 1/19)
Temperature around the reactor vessel	Temperature in feed-water nozzle:26.5 Temperature at reactor vessel bottom:26.8 (as of 11:00 , 1/19)	Temperature in feed-water nozzle:47.8 Temperature at reactor vessel bottom:50.7 (as of 11:00 , 1/19)	Temperature in feed-water nozzle:45.2 Temperature at reactor vessel bottom:53.6 (as of 11:00, 1/19)	2 ( Monitoring is	2 (monitoring through water temperature of the reactor)	
Pressure in D/W · S/C	D/W:0.1075 MPa abs S/C:0.120 MPa abs (as of 11:00 , 1/19)	D/W:0.109 MPa abs S/C: Downscale 1 (as of 11:00 , 1/19)	D/W:0.1016 MPa abs S/C:0.1882 MPa abs (as of 11:00, 1/19)	unnecessary since all fuel are takeoff)	2 ( Monitoring is unnecessary since heat removal of reactor is functioning.)	
D/W Atmosphere temperature	RPV bellow seal:28.0 HVH return:28.3 (as of 11:00 , 1/19)	RPV bellow seal:50.7 3 HVH return:50.3 3 (as of 11:00 , 1/19)	RPV bellow seal:59.6 3 HVH return:45.0 (as of 11:00 , 1/19)			
CAMS radiation monitor	D/W(A):1.00E-02Sv/h 1 (B):7.31E+00Sv/h 1 S/C(A):6.50E-01Sv/h (B):6.70E-01Sv/h (as of 11:00 , 1/19)	D/W(A):6.66E+00Sv/h (B):2.53E+00Sv/h S/C(A):5.00E-02Sv/h (B):1.55E+00Sv/h (as of 11:00 , 1/19)	D/W(A):2.99E+00Sv/h (B):1.96E+00Sv/h S/C(A):2.41E-01Sv/h (B):2.31E-01Sv/h (as of 11:00, 1/19)			
Temperature in S/C	System A:37.7 System B:37.7 (as of 11:00 , 1/19)	System A:39.2 System B:39.1 (as of 11:00 , 1/19)	System A:31.8 System B:31.7 (as of 11:00 , 1/19)			
Hydrogen concentration in PCV	0.09vol% (as of 5:00 , 1/19 )	0.10vol% (as of 11:00 , 1/19 )				
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	14.5 (as of 11:00 , 1/19 )	13.2 (as of 11:00 , 1/19 )	13.0 (as of 11:00 , 1/19 )	22 (as of 11:00, 1/19)	13.4 (as of 12:00, 1/19)	13.0 (as of 12:00, 1/19)
FPC skimmer surge tank level	2620mm (as of 11:00 , 1/19 )	3910mm (as of 11:00 , 1/19 )	3820mm (as of 11:00 , 1/19 )	2271mm (as of 11:00, 1/19)		2
Power source	Receiving offsite power ( P/C2C )		Receiving offsite power ( P/C4D )		Receiving offsite power	
Others	The density of hydrogen in Unit 1's PCV was measured at 5:00 am on January 19 as the instruments were under calibration at 11:00 am.  Temperature in the Common Spent Fuel Storage: 17 (as of 9:50 , 1/19)			6u : SHC mode (from 12:06 ,1/12)		

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)

I : Instrument failure
 Not covered for colleting data
 continuously monitoring the status

## Fukushima Daiichi Nuclear Power Station Supplemental explanation for the plant parameters

Supplemental explanation for each parameter

Suppleme	ental 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 / 1 Ch System B 1 / 1 Ch	
	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 / 2 Ch, System B 1 / 2 Ch (Unit 3)	
Temperature in the reactor	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.	Temporary	Point of Feed-water nozzle 1 / 4 Ch reactor vessel bottom 1 / 2 Ch (Unit 1) 1 / 1 Ch (Unit 2/3)	
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)	
D/W Atmosphere temperature	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 / 5 Ch D/W HVH return 1 / 5 Ch	
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 A 1 / 4 Ch ( Unit 1 ) 、 8 Ch ( Unit 2 / 3 ) System B 1 / 4 Ch ( Unit 1 ) 、 8 Ch ( Unit 2 / 3 )	
	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

ltem	Contents	Status As of 12:00 on January 19
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 -
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, RPV bellow air temperature,HVH return temperature Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor