## 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	16
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Status of Water	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	1 1:4 6
Status of Water			Of IIC O	Of III	Of IIL 5	Unit 6
	Fresh water feeding Feed water system 4.5 m³/h, CS line 1.9 m³/h (as of 11:00 , 1/16 )	Fresh water feeding Feed water system 2.7 $\vec{n}$ /h, CS line 7.1 $\vec{n}$ /h (as of 11:00 , 1/16 )	Fresh water feeding Feed water system 1.9 m²/h, CS line 7.2 m²/h (as of 11:00 , 1/16)		*2 (Heat removal of the reactor is functioning, Water injection is unnecessary)	
Water level in the reactor	(as of 11:00, 1/16)	Fuel range A: Downscale #3 Fuel range B:-2121 mm #3 (as of 11:00 , 1/16)	Fuel range B:-2223 mm (as of 11:00, 1/16)	<del>(</del> 3 <del>(</del> 3	Stoppage range 2499mm (as of 12:00 , 1/16)	Stoppage range 2068mm (as of 12:00 , 1/16)
Pressure in the	System A:-0.005 MPa g System B:-MPa g (as of 11:00 , 1/16)	System A:0.004 MPa g System B:-MPa g (as of 11:00 , 1/16)		A) %3 C) %3	0.013 MPa g (as of 12:00, 1/16)	0.018 MPa g (as of 12:00, 1/16)
Water temperature of the reactor	(Since there is no water inflow in the system it is impossible to collect the data)			30.8 °C (as of 12:00, 1/16)	28.4 °C (as of 12:00 , 1/16)	
Temperature around	Temperature in feed-water nozzle:24.7 °C Temperature at reactor vessel bottom:25.0 °C (as of 11:00, 1/16)	Temperature in feed-water nozzle:47.7 °C Temperature at reactor vessel bottom:49.7 °C (as of 11:00, 1/16)	Temperature in feed-water nozzle:44.6 °C Temperature at reactor vessel bottom:53.9 °C (as of 11:00 , 1/16)	%2 (Monitoring is	*2 (monitoring through water temperature of the reactor)	
Pressure in D/W · S/C	(as of 11:00, 1/16)	D/W:0,109 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1873 MPa abs (as of 11:00 , 1/16)	unnecessary since all fuel are takeoff)	*2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
D/W Atmosphere	RPV bellow seal:26.8 °C HVH return:27.4 °C (as of 11:00 , 1/16)	RPV bellow seal:50.1 °C	RPV bellow seal:59,5 °C	(3		
CAMS radiation smonitor	D/W(A):1,00E-02Sv/h	D/W(A):6,70E+00Sv/h (B):2,52E+00Sv/h	D/W(A):3.01E+00Sv/h (B):1.98E+00Sv/h S/C(A):2.41E-01Sv/h (B):2.31E-01Sv/h (as of 11:00 , 1/16)	(3		
Temperature in S/C	System A'38.1 °C System B'38.1 °C (as of 11'00 , 1/16)	System A:39,7 °C System B:39,5 °C (as of 11:00 , 1/16)	System A:32.1 °C System B:32.1 °C (as of 11:00 , 1/16)			
Hydrogen concentration in PCV	0.09vol% (as of 11:00 , 1/16 )	0.10vol% (as of 11:00 , 1/16 )	-			
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	12.0°C (as of 11:00 , 1/16 )	12.6°C (as of 11:00 , 1/16 )	12.7°C (as of 11:00 , 1/16 )	21℃ (as of 11:00 , 1/16 )	13.7 °C (as of 12:00 , 1/16)	13.5 ℃ (as of 12:00 , 1/16)
FPC skimmer surge tank level	2830mm (as of 11:00 , 1/16 )	4780mm (as of 11:00 , 1/16 )	3920mm (as of 11:00 , 1/16 )	2522mm (as of 11:00 , 1/16 )	*	<b>%</b> 2
Power source	Receiving offsite	power (P/C2C)	Receiving offsite power (P/C	4D)	Receiving o	ffsite power
Others				Temperature in the Common Spent Fuel Storage: 13°C (as of 10:10, 1/16	5u : SHC mode (from 10:51 ,1/4)	6u : SHC mode (from 12:06 ,1/12)

Pressure conversion Gauge pressure (MPa g) = Absolute pressure (MPa abs) - atmospheric pressure (normal atmospheric pressure 0.1013 MPa)

Absolute pressure (MPa abs) = Gauge pressure (MPa g) + atmospheric pressure (normal atmospheric pressure 0.1013 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

Item	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 1 and 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.	_	-
	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 (Unit1) 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)
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 / 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
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	Unit2, 4 are the FPC skimmer surge tank level measured temporary instrument.     Unit1, 3 are the FPC skimmer surge tank level estimated from temporary pressure gages (reference value) (FPC: Fuel Pool Cooling system)	Temporary	1/1system

■Supplemental explanation for notes

Item	Contents	Status As of 12:00 on January 16
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