Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 06:00 on January 30

[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 5.6 m³/h, CS line 0.9 m³/h (as of 5:00 , 1/30)	Fresh water feeding Feed water system 7.0 ㎡/h, CS line 1.6 ㎡/h (as of 5:00 , 1/30)	Fresh water feeding Feed water system 7.1 m²/h, CS line 1.9 m²/h (as of 5:00 , 1/30)		%2 (Heat removal of the reactor is functioning. Water injection is unnecessary)	
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1810 mm X3 (as of 5:00 , 1/30)	Fuel range A: Downscale %3 Fuel range B:-2116 mm %3 (as of 5:00 , 1/30)	Fuel range A:-2075 mm %3 Fuel range B:-2225 mm %3 (as of 5:00, 1/30) %3	-	Stoppage range 2501 mm (as of 6:00 , 1/30)	Stoppage range 2347 mm (as of 6:00 , 1/30)
Pressure in the reactor	System A:-0.005 MPa g System B:-MPa g (as of 5:00 , 1/30)	System A:0.005 MPa g System B:-MPa g (as of 5:00 , 1/30)	System A:Downscale (A) %3 System B:Downscale (C) %3 (as of 5:00, 1/30)		0.012 MPa g (as of 6:00 , 1/30)	0.023 MPa g (as of 6:00 , 1/30)
Water temperature of the reactor	(Since the	re is no water inflow in the system it is impossible to colle	ct the data)		33.1 ℃ (as of 6:00 , 1/30)	26.8 °C (as of 6:00 , 1/30)
Temperature around the reactor vessel	Temperature in feed-water nozzle:24.9 °C Temperature at reactor vessel bottom:25.4 °C (as of 5:00 , 1/30)	Temperature in feed-water nozzle:46.6 °C Temperature at reactor vessel bottom:50.4 °C (as of 5:00 , 1/30)	Temperature in feed-water nozzle:43.2 °C Temperature at reactor vessel bottom:52.5 °C (as of 5:00 , 1/30)	%2 (Monitoring is unnecessary since all fuel are takeoff)	*2 (monitoring through water temperature of the reactor)	
Pressure in D/W • S/C	D/W:0.1062 MPa abs S/C:0.124 MPa abs %3 (as of 5:00 , 1/30)	D/W:0.109 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1879 MPa abs (as of 5:00 , 1/30)		%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
D/W Atmosphere temperature	RPV beilow seal:26.8 °C HVH return:27.0 °C (as of 5:00 , 1/30)	RPV bellow seal:51.2 °C %3 HVH return:48.9 °C %3 (as of 5:00 , 1/30)	RPV bellow seal:57.1 °C & &3 HVH return:43.7 °C (as of 5:00 , 1/30)			
CAMS radiation monitor	D/W(A):1.00E-02Sv/h	D/W(A):6,52E+00Sv/h (B)2,55E+00Sv/h S/C(A):5,00E-02Sv/h (B)1,16E+01Sv/h (as of 5:00 , 1/30)	D/W(A):2.97E+00Sv/h %3 (B) 1.92E+00Sv/h S/C(A):2.40E-01Sv/h (B) 2.30E-01Sv/h (as of 5:00 , 1/30)			
Temperature in S/C	System A:36.4 °C System B:36.4 °C (as of 5:00 , 1/30)	System A:38.1 °C System B:37.9 °C (as of 5:00 , 1/30)	System A:30.8 °C System B:30.8 °C (as of 5:00 , 1/30)			
Hydrogen concentration in PCV	0.01vol% (as of 5:00 , 1/30)	0.05vol% (as of 5:00 , 1/30)	-			
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	12.0°C (as of 5:00 , 1/30)	12.4°C (as of 5:00 , 1/30)	12.1℃ (as of 5:00 , 1/30)	25℃ (as of 5:00 , 1/30)	12.0 °C (as of 6:00 , 1/30)	11.5 ℃ (as of 6:00 , 1/30)
FPC skimmer surge tank level	3750mm (as of 5:00 , 1/30)	4080mm (as of 5:00 , 1/30)	3710mm (as of 5:00 , 1/30)	5208mm (as of 5:00 , 1/30)	*	2
Power source	Receiving offsite	power (P/C2C)	Receiving offsite power (P/C4D)		Receiving offsite power	
Others				Temperature in the Common Spent Fuel Storage: 11 °C (as of 10:00, 1/29)	5u : SHC mode (from 15:58 ,1/18)	6u : SHC mode (from 12:14 ,1/26)
Others				Fuel Storage: 11 °C	(from 15:58 ,1/18)	

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 1and 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.	-	-	
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)	
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 Beilows Air 1 / 5Ch D/W HVH return 1 / 5Ch	
Data from temporary instrument. (CAMS : Containment Atmospheric Monitoring System)	Temporary	D/W System A 1/1Ch System B 1/1Ch S/C System A 1/1Ch System B 1/1Ch	
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)	
Data measured by the PCV gas management system. (PCV : Primary Containment Vessel)	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)	
 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	
	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 from temporary instrument. (PCV : Primary Containment Vessel) Data from temporary instrument. (PCV : Primary Containment Vessel) Data from temporary instrument. (Non-thermal mode : Urgent Heat load Mode, SHC mode : Shut down Cooling Mode) • Unit1, 2, 4 are the FPC skimmer surge tank level measured temporary instrument. • Unit1, 2, are the FPC skimmer surge tank le	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 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 Temporary Data measured at feed-water nozzle and at reactor vessel bottom (1U, 3U : RPV Bottom Head, 2U : RPV Wall Temporary Data from temporary instrument. (D/W : Dry Well, S/C : Suppression Chamber) Temporary Data a topper point (RPV Bellews 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 Data from temporary instrument. (CAMS : Containment Atmospheric Monitoring System) Temporary Data from temporary instrument. (PCV : Primary Containment Vessel) Temporary Data from temporary instrument. (Northermal mode : Urgent Heat load Mode, SHC mode : Shut down Cooling Mode) Temporary Data from temporary containment Vessel Temporary Temporary Data from temporary instrument. (Northermal mode : Urgent Heat load Mode, SHC mode : Shut down Cooling Mode) Temporary Data frem temporary thestrument. (Northermal mode : Urgent heat l	

■Supplemental explanation for notes

ltem	Contents	Status As of 06:00 on January 30
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 Hydrogen Density of PCV: In case that the instrument indicates minus hydrogen density, "0%" is recorded