Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 12:00 on January 22

[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.

ine 1.8 m²/h	Fresh water feeding Feed water system 6.0 m²/h, CS line 3.0 m²/h (as of 11:00, 1/22) Fuel range A: Downscale Fuel range B:-2116 mm (as of 11:00, 1/22) System A:0.005 MPa g System B:-MPa g (as of 11:00, 1/22) ere is no water inflow in the system it is impossible to Temperature in feed-water nozzle:47.2 °C Temperature at reactor vessel bottom:49.9 °C (as of 11:00, 1/22) D/W0,110 MPa abs S/C: Downscale %1 (as of 11:00, 1/22) RPV bellow seal:50.4 °C W3 (as of 11:00, 1/22) D/W0,110 MPa abs S/C: Downscale %1 (as of 11:00, 1/22) RPV bellow seal:50.4 °C W3 (as of 11:00, 1/22) D/W(A):6.63E+00Sv/h (B):2.53E+00Sv/h (B):1.61E+00Sv/h (B):1.61E+00Sv/h	System B:Downscale (C) (as of 11:00,1/22)	*3 *3 (Monitoring is unnecessary since all fuel are takeoff)		Stoppage range 2334mm (as of 12:00, 1/22) 0.021 MPa g (as of 12:00, 1/22) 28.4 °C (as of 12:00, 1/22) ater temperature of the
(Since th cle:26.4 °C ottom:26.8 °C **3	Fuel range B:-2116 mm %3 (as of 11:00, 1/22) System A:0.005 MPa g System B:-MPa g (as of 11:00, 1/22) ere is no water inflow in the system it is impossible to remperature in feed-water nozzle:47.2 °C Temperature at reactor vessel bottom:49.9 °C (as of 11:00, 1/22) D/W:0,110 MPa abs %1 S/C: Downscale %1 (as of 11:00, 1/22) %3 D/W:0,110 MPa abs %3 S/C: Downscale %3 (as of 11:00, 1/22) %3 RPV bellow seal:50.4 °C %3 HVH return:49.3 °C %3 (as of 11:00, 1/22) D/W(A):6.63E+00Sv/h (B):2.53E+00Sv/h %1 S/C: A):5:00E-02Sv/h %1 S/C: A):5:0E-02Sv/h %1	Fuel range B:-2151 mm #3 (as of 11:00, 1/22) System A:Downscale (A) System B:Downscale (C) (as of 11:00, 1/22) (C) billect the data) Temperature in feed-water nozzle:45.4 °C Temperature at reactor vessel bottom:53.5 °C (as of 11:00, 1/22) D/W:0.1016 MPa abs S/C:0.1872 MPa abs (as of 11:00, 1/22) RPV bellow seai:59.2 °C RPV bellow seai:59.2 °C #33 (B):1.95E+00Sv/h #33 S/C:0.238E-00Sv/h #33 S/C:0.238E-00Sv/h #33 S/C:0.238E-00Sv/h #33 S/C:0.238E-00Sv/h #33	*3 *3 (Monitoring is unnecessary since all fuel are takeoff)	2511mm (as of 12'00, 1/22) 0.012 MPa g (as of 12'00, 1/22) 34.0 °C (as of 12'00, 1/22) **2 (monitoring through wa reactor)	2334mm (as of 12:00, 1/22) 0.021 MPa g (as of 12:00, 1/22) 28.4 °C (as of 12:00, 1/22) ater temperature of the
2le:26.4 °C ottom:26.8 °C **3 **1	System B-MPa g (as of 11:00, 1/22) ere is no water inflow in the system it is impossible to Temperature in feed-water nozzle:47.2 °C Temperature at reactor vessel bottom:49.9 °C (as of 11:00, 1/22) D/W:0.110 MPa abs S/C: Downscale %1 (as of 11:00, 1/22) RPV bellow seal:50.4 °C %3 HVH return:49.3 °C %3 HVH return:49.3 °C %3 BV(A):6.63E+00Sv/h (B):2.53E+00Sv/h (B):1.61E+00Sv/h %1	System B: Downscale (C) (as of 11:00,1/22) billect the data.) Temperature in feed-water nozzle:45.4 °C Temperature at reactor vessel bottom:53.5 °C (as of 11:00,1/22) D/W:0.1016 MPa abs S/C0.1872 MPa abs (as of 11:00,1/22) RPV bellow seal:59.2 °C *33 HVH return:45.3 °C (as of 11:00,1/22) D/W(A):2.98E+00Sv/h (B):1.95E+00Sv/h S/C(A):2.39E-01Sv/h	*3 *2 (Monitoring is unnecessary since all fuel are takeoff)	(as of 12:00, 1722) 34.0 °C (as of 12:00, 1/22) #2 (monitoring through wa reactor) #2 (Monitoring is unnecessary	(as of 12:00 , 1722) 28.4 °C (as of 12:00 , 1/22) ater temperature of the
2le:26.4 °C ottom:26.8 °C **3 **1	Temperature in feed-water nozzlei47.2 °C Temperature at reactor vessel bottom:49.9 °C (as of 11:00, 1/22) D/W0,110 MPa abs S/C: Downscale (as of 11:00, 1/22) RPV bellow seal:50.4 °C HVH return:49.3 °C (as of 11:00, 1/22) D/W0,1663E+00Sv/h (B):2.53E+00Sv/h (B):1.61E+00Sv/h (B):1.61E+00Sv/h	Temperature in feed-water nozzle:45.4 °C Temperature at reactor vessel bottom:53.5 °C (as of 11:00, 1/22) D/W:0.1016 MPa abs S/C:0.1872 MPa abs (as of 11:00, 1/22) RPV bellow seal:59.2 °C HVH return:45.3 °C (as of 11:00, 1/22) D/W:0.1298E+00Sv/h (B):1.95E+00Sv/h S/C(A):2.39E-01Sv/h	(Monitoring is unnecessary since all fuel are takeoff)	(as of 12:00, 1/22) %2 (monitoring through wa reactor) %2 (Monitoring is unnecessary	(as of 12:00 , 1/22) ater temperature of the
ottom:26.8 °C 	Temperature at reactor vessel bottom:49.9 °C (as of 11:00, 1/22) D/W0,110 MPa abs S/C: Downscale %1 (as of 11:00, 1/22) RPV bellow seal:50.4 °C WH return:49.3 °C (as of 11:00, 1/22) D/W(A):6.63E+00Sv/h (B):2.53E+00Sv/h (B):1.61E+00Sv/h (B):1.61E+00Sv/h	Temperature at reactor vessel bottom:53.5 °C (as of 11:00, 1/22) D/W:0.1016 MPa abs S/C:0.1872 MPa abs (as of 11:00, 1/22) RPV bellow seal:59.2 °C #VH return:45.3 °C (as of 11:00, 1/22) D/W(A):2.98E+005v/h (B):1.95E+005v/h S/C(A):2.39E-015v/h	(Monitoring is unnecessary since all fuel are takeoff)	reactor) *2 (Monitoring is unnecessary	· · · · · · · · · · · · · · · · · · ·
*1	S/C: Downscale #1 (as of 11:00, 1/22) RPV bellow seal:50.4 °C #3 HVH return/49.3 °C #33 (as of 11:00, 1/22) D/W(A):6.63E+00Sv/h #1 S/C(A):5:00E-02Sv/h #1 \$1 S/C(A):5:00E-02Sv/h #1 \$1	S/C:0.1872 MPa abs (as of 11:00, 1/22) RPV bellow seal:59.2 °C #WH return:45.3 °C (as of 11:00, 1/22) D/W(A):2.98E+00Sv/h (B):1.95E+00Sv/h S/C(A):2.39E-00Sv/h	unnecessary since all fuel are takeoff)	(Monitoring is unnecessary	u ninga haat ramay val of
	HVH return:49.3 °C #35 (as of 11:00 , 1/22) D/W(A):6.63E+00Sv/h (B):2:53E+00Sv/h S/C(A):5:00E-02Sv/h (B):1.61E+00Sv/h #31	HVH return:45.3 °C (as of 11:00, 1/22) D/W(A):2:98E+00Sv/h (B):1:95E+00Sv/h S/C(A):2:39E-01Sv/h		(Monitoring is unnecessary	reinee heet removel of
	(B):2,53E+00Sv/h	(B):1.95E+00Sv/h S/C(A):2.39E-01Sv/h		(Monitoring is unnecessary	coince best removel of
	(as of 11:00 , 1/22)	(as of 11:00 , 1/22)		%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
	System A:38.8 °C System B:38.7 °C (as of 11:00 , 1/22)	System A:31.5 °C System B:31.5 °C (as of 11:00 , 1/22)			
	0.10vol% (as of 11:00 , 1/22)	-			
	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)			
	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	_		
1/22)	14.1°C (as of 11:00 , 1/22)	13.6℃ (as of 11:00 , 1/22)	23°C (as of 11:00 , 1/22)	13.3 ℃ (as of 12:00 , 1/22)	13.0 °C (as of 12:00 , 1/22)
n 1/22)	3630mm (as of 11:00 , 1/22)	4490mm (as of 11:00 , 1/22)	5470mm (as of 11:00 , 1/22)	*	\$2
Receiving offsite power (P/C2C) Receiving offsite power (P/C4D)))	Receiving offsite power		
			Common Spent Fuel Storage 14°C	5u : SHC mode (from 15:58 ,1/18)	6u : SHC mode (from 12:06 ,1/12)
	1/22)	1/22) (as of 11:00 , 1/22)	1/22) (as of 11:00, 1/22) (as of 11:00, 1/22)	3630mm (as of 11:00, 1/22) 4490mm (as of 11:00, 1/22) 5470mm (as of 11:00, 1/22) Receiving offsite power (P/C2C) Receiving offsite power (P/C4D)	3630mm (as of 11:00, 1/22) 3630mm (as of 11:00, 1/22) 5470mm (as of 11:00, 1/22) Receiving offsite power (P/C2C) Receiving offsite power (P/C4D) Receiving offsite power (P/C4D) Temperature in the Common Spent Fuel Storaget 5u : SHC mode (su : 5150 ± /40)

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 1/1Ch 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)
	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 from temporary instrument. (D/W : Pry Well, S/C : Suppression Chamber) Data from temporary instrument. (C/W : Prive Point (RPV Bellows Air) and middle point (HVH return) are noted among multiple data to view the whole picture. 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. (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 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 a tupper point (PPV Bellows Air) and middle point (HVH return) are noted among multiple data to view the whole picture. Temporary Data a from temporary instrument. (CAMS : Containment Atmospheric Monitoring System) Temporary Data from temporary instrument. (CAMS : Containment Atmospheric Monitoring System) Temporary Data from temporary instrument. One representing value is noted among multiple data on each System A, B. Temporary Data from temporary instrument. CAMS : Containment Atmospheric Monitoring System) Temporary Data from temporary instrument. One representing value is noted among multiple data on each System A, B. Temporary

■Supplemental explanation for notes

Item	Contents	Status As of 12:00 on January 22
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