Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 06:00 on February 12

[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.

el range B:-1800 mm X:3 s of 5:00, 2/12) stem A:-0.005 MPa g stem B:-MPa g s of 5:00, 2/12) (Since then mperature in feed-water nozzle:23.9 °C mperature at reactor vessel bottom:24.3 °C s of 5:00, 2/12)	Fresh water feeding Feed water system 7.8 m³/h, CS line 6.6 m³/h (as of 5:00, 2/12) Fuel range A: Downscale 3:3 Fuel range B:-2115 mm 3:3 (as of 5:00, 2/12) System A:0.006 MPa g System B:-MPa g (as of 5:00, 2/12) e is no water inflow in the system it is impossible to co Temperature in feed-water nozzle:36.4 °C Temperature at reactor vessel bottom:75.4 °C (as of 5:00, 2/12)	System B: Downscale (C) (as of 5:00, 2/12)		 X2 (Heat removal of the minipaction is unnecessary) Stoppage range 2529 mm (as of 6:00, 2/12) 0.012 MPa g (as of 6:00, 2/12) 38.4 °C (as of 6:00, 2/12) 	Stoppage range 2052 mm (as of 6:00, 2/12) 0.019 MPa g (as of 6:00, 2/12) 26.3 °C
el range B:-1800 mm X:3 s of 5:00, 2/12) stem A:-0.005 MPa g stem B:-MPa g s of 5:00, 2/12) (Since then mperature in feed-water nozzle:23.9 °C mperature at reactor vessel bottom:24.3 °C s of 5:00, 2/12)	Fuel range B-2115 mm (as of 5:00, 2/12) System A:0.006 MPa g System B-MPa g (as of 5:00, 2/12) e is no water inflow in the system it is impossible to co Temperature in feed-water nozzle:36.4 °C Temperature at reactor vessel bottom:75.4 °C	Fuel range B-2231 mm #33 (as of 5:00, 2/12) System A:Downscale (A) System B:Downscale (C) (A) (as of 5:00, 2/12) Ilect the data) (A)	×3	2529 mm (as of 6:00 , 2/12) 0.012 MPa g (as of 6:00 , 2/12) 38.4 °C	2052 mm (as of 6:00, 2/12) 0.019 MPa g (as of 6:00, 2/12) 26.3 °C
stem B:-MPa g s of 5:00 , 2/12) (Since ther mperature in feed-water nozzle:23.9 °C mperature at reactor vessel bottom:24.3 °C s of 5:00 , 2/12)	System B:-MPa g (as of 5:00 , 2/12) e is no water inflow in the system it is impossible to co Temperature in feed-water nozzle:36.4 °C Temperature at reactor vessel bottom:75.4 °C	System B: Downscale (C) (as of 5:00, 2/12)		(as of 6:00 , 2/12) 38.4 °C	(as of 6:00 , 2/12) 26.3 ℃
mperature in feed-water nozzle:23.9 °C mperature at reactor vessel bottom:24.3 °C s of 5:00 , 2/12)	Temperature in feed-water nozzle 36.4 °C Temperature at reactor vessel bottom 75.4 °C				
mperature at reactor vessel bottom:24.3 °C s of 5:00 , 2/12)	Temperature at reactor vessel bottom 75.4 °C	Temperature in feed-water nozzle:40.2 ℃		1	(as of 6:00 , 2/12)
	(as 01 5.00, 2/12)	Temperature at reactor vessel bottom:48.9 $^\circ C$ (as of 5:00 , 2/12)	%2 (Monitoring is	*2 (monitoring through water temperature of the reactor)	
C:0.123 MPa abs X:3		D/W:0,1016 MPa abs S/C:0,1894 MPa abs (as of 5:00 , 2/12)	unnecessary since all fuel are takeoff)	%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
/H return:25.6 °C		RPV bellow seal:53.0 °C & #3 HVH return:41.4 °C (as of 5:00 , 2/12)			
(B)4.65E+00Sv/h ×1	(B)2.49E+00Sv/h	D/W(A):2.92E+00Sv/h #33 (B)1.88E+00Sv/h S/C(A):2.40E-01Sv/h (B)2.30E-01Sv/h (as of 5:00, 2/12)			
	System A:37.1 °C System B:36.9 °C (as of 5:00 , 2/12)	System A:29.7 °C System B:29.6 °C (as of 5:00 , 2/12)			
0.01vol% (as of 5:00 , 2/12) %3	0.05vol% (as of 5:00 , 2/12) %3	-			
384MPa g (0,485MPa abs)	0,384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)			
127MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	_		_
24.0°C (as of 5:00 , 2/12)	12.3℃ (as of 5:00 , 2/12)	26.9°C (as of 5:00 , 2/12)	23℃ (as of 5:00 , 2/12)	17.8 ℃ (as of 6:00 , 2/12)	23.0 °C (as of 6:00 , 2/12)
2930mm (as of 5:00 , 2/12)	4270mm (as of 5:00 , 2/12)	4280mm (as of 5:00 , 2/12)	3376mm (as of 5:00 , 2/12)	*	\$2
Receiving offsite power (P/C2C) Receiving offsite power (P/C4D))	Receiving offsite power		
			Common Spent Fuel Storage: 16 °C	5u : SHC mode (from 11:10 ,2/1)	6u : SHC mode (from 14:02 ,2/9)
C:(C:(C(C(C(C(C(C(C(C(C(C	D123 MPa abs #3 f5:00,2/12) kii bellow seali25.9 °C return:25.6 °C f5:00,2/12) kii Al:1.00E-02Sv/h #1 Bi6.465E+00Sv/h %1 Bi6.70E-01Sv/h %1 Bi6.70E-01Sv/h %1 m B:34.4 °C mB:34.3 °C f 5:00,2/12) 0.01vol% (as of 5:00,2/12) 0.01vol% (as of 5:00,2/12) %3 4MPa g (0.485MPa abs) 24.0°C (as of 5:00,2/12) 2930mm (as of 5:00,2/12) 2930mm	D.123 MPa abs \$3 \$/C: Downscale \$1 f500,2/12) RPV bellow seal:38.2 °C \$3 bellow seal:25.9 °C RPV bellow seal:38.2 °C \$3 return:25.6 °C HVH return:39.5 °C \$3 A):1.00E-02Sv/h \$1 D/W(A):6.43E+00Sv/h \$1 B1:6.46E+00Sv/h \$11 D/W(A):6.43E+00Sv/h \$11 B2.49E+00Sv/h \$11 B2.49E+00Sv/h \$11 B1:6.70E+01Sv/h \$11 D/W(A):6.43E+00Sv/h \$11 B1:6.40E+00Sv/h \$11 B1:2.49E+00Sv/h \$11 B1:6.40E+00Sv/h \$11 B1:2.49E+00Sv/h \$11 B1:6.42E+00Sv/h \$12 \$12 \$11 B1:6.42E+00Sv/h \$12 \$12 \$12 B1:6.42E+00Sv/h \$12 \$12 \$11 B1:6.42E+00Sv/h \$12 \$12 \$12 m B:34.3 °C \$500, 2/12 \$12 \$12 0.01vol% (as of 5:00, 2/12) \$33 0.05vol% (as of 5:00, 2/12) \$33 4MPa g (0.485MPa abs) 0.384MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) \$4270mm 24.0°C \$24	2).123 MPa abs \$3 S/C Downscale (as of 500, 2/12) \$1 S/C0.1894 MPa abs (as of 500, 2/12) bellow seal259 °C return/256 °C f 500, 2/12) RPV bellow seal382 °C (as of 500, 2/12) \$33 RPV bellow seal553 °C (as of 500, 2/12) \$33 Alt/H return/355 °C f 500, 2/12) RPV bellow seal530 °C (as of 500, 2/12) \$33 RPV bellow seal530 °C (as of 500, 2/12) \$33 Alt/100F0250/h (B1465E+0050/h (B1670E+0150/h) \$11 D/W(Ai643E+0050/h (B1249E+0050/h) \$31 D/W(Ai292E+0050/h (B1230E+0150/h) \$33 B1670E+0150/h (B670E+0150/h) \$11 D/W(Ai643E+0050/h (B1249E+0050/h) \$11 S/C(Ai200E+0150/h) (B188E+0050/h) \$33 B16320E+0150/h (B1670E+0150/h) \$11 S/C(Ai2500E+0250/h) (B164E+0050/h) \$11 S/C(Ai220E+0150/h) (B1230E+0150/h) \$33 B16420F0150/h (B1670E+0150/h) \$12 \$33 D/W(Ai292E+0050/h) (B164E+0050/h) \$34 B1670E+0150/h (B1670E+0150/h) \$35 \$35 \$35 \$35 \$35 B170 \$35 \$35 \$35 \$35 \$35 \$35 B1838E+0050/h (B1670E+0150/h) \$35 \$35 \$35 \$35 \$35 B1500,2/12) \$33 \$0.0500/6 (as of 500,2/12) </td <td>0.1066 MPa abs D/W0.111 MPa abs D/W0.1016 MPa abs D/W0.1016 MPa abs unnecessary 1123 MPa abs \$3.3 \$5.00</td> <td>0.1066 MPa abs D.W0.111 MPa abs D.W0.111 MPa abs D.W0.111 MPa abs shoe all flue are takeoff 1123 MPa abs S.C. Downscale 11 S.C. Downscale 11 Sc.C. Downscale shoe all flue are takeoff 1500. 2/12) RPV beliow seal382 C %3 RPV beliow seal382 C %3 RPV beliow seal350 C %3 1500. 2/12) Rev beliow seal382 C %3 RPV beliow seal350 C %3 RPV beliow seal350 C %3 16500. 2/12) Rev beliow seal328 C %3 RPV beliow seal350 C %3 %3 184 d65f-005w/h %11 Bl 188E-005w/h %3 Bl 188E-005w/h %3 166 700-015w/h K1 Sicka 500. 2/12) %1 Sicka 500. 2/12) %2 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - - 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - - - - 1600.0.2/12) (as of 500. 2/12) (as of 500. 2/12) (as of 500.</td>	0.1066 MPa abs D/W0.111 MPa abs D/W0.1016 MPa abs D/W0.1016 MPa abs unnecessary 1123 MPa abs \$3.3 \$5.00	0.1066 MPa abs D.W0.111 MPa abs D.W0.111 MPa abs D.W0.111 MPa abs shoe all flue are takeoff 1123 MPa abs S.C. Downscale 11 S.C. Downscale 11 Sc.C. Downscale shoe all flue are takeoff 1500. 2/12) RPV beliow seal382 C %3 RPV beliow seal382 C %3 RPV beliow seal350 C %3 1500. 2/12) Rev beliow seal382 C %3 RPV beliow seal350 C %3 RPV beliow seal350 C %3 16500. 2/12) Rev beliow seal328 C %3 RPV beliow seal350 C %3 %3 184 d65f-005w/h %11 Bl 188E-005w/h %3 Bl 188E-005w/h %3 166 700-015w/h K1 Sicka 500. 2/12) %1 Sicka 500. 2/12) %2 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - - 0.01vol% (as of 500. 2/12) %3 0.05vol% (as of 500. 2/12) %3 - - - - - 1600.0.2/12) (as of 500. 2/12) (as of 500. 2/12) (as of 500.

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 (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 1/1Ch System B 1/1Ch S/C System A 1/1Ch System B 1/1Ch	
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

ltem	Contents	Status As of 06:00 on February 12
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) rediation monitor Hydrogen Density of PCV: In case that the instrument indicates minus hydrogen density, "0%" is recorded, (Because there's the possibility of minus indication due to the instrumental precision when hydrogen density is very low.)