Fukushima Daiichi Nuclear Power Station Plant Parameters

As of 12:00 on March 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.

11:00, 3/12) ange A: Downscale ange B:-1650 mm	Unit 2 Fresh water feeding Feed water system 2.8 m²/h, CS line 6.0 m²/h (as of 11:00, 3/12) Fuel range A: Downscale %3 Fuel range B-2113 mm %3 (as of 11:00, 3/12) System A:0.017 MPa g System B-MPa g (as of 11:00, 3/12) a is no water inflow in the system it is impossible to ca Temperature at reactor vessel bottom:42.3 °C (as of 11:00, 3/12) D/W0.122 MPa abs S/C: Downscale %1 (as of 11:00, 3/12)	Fresh water feeding Feed water system 1.8 m²/h, CS line 5.2 m²/h (as of 11:00, 3/12) Fuel range A:-1371 mm Fuel range B:-2125 mm (as of 11:00, 3/12) System A:Downscale (A) %: System B:Downscale (as of 11:00, 3/12) Ilect the data) Temperature in feed-water nozzle:41.9 °C Temperature at reactor vessel bottom:52.8 °C (as of 11:00, 3/12) D/W:0,1016 MPa abs			Stoppage range 2137mm (as of 12:00, 3/12) 0.023 MPa g (as of 12:00, 3/12) 27.1 °C (as of 12:00, 3/12)
Inge B:-1650 mm 3:3 11:00, 3/12 A:-0.005 MPa g B:-MPa g 11:00, 3/12) (Since there (Since there rature in feed-water nozzle:22.9 °C rature at reactor vessel bottom:22.8 °C 11:00, 3/12) 1053 MPa abs 122 MPa abs 3:3 11:00, 3/12) ellow seal:23.6 °C	Fuel range B-2113 mm **3 (as of 11:00, 3/12) System B:-MPa g (as of 11:00, 3/12) e is no water inflow in the system it is impossible to co Temperature in feed-water nozzle:41.7 °C Temperature at reactor vessel bottom:42.3 °C (as of 11:00, 3/12) D/W:0.122 MPa abs S/C: Downscale **1	Fuel range B:-2125 mm %3 (as of 11:00, 3/12) System A:Downscale System B:Downscale (C)%: (as of 11:00, 3/12) (C)%: Ilect the data) Temperature in feed-water nozzle:41.9 °C Temperature at reactor vessel bottom:52.8 °C (as of 11:00, 3/12)	*2	2515mm (as of 12:00, 3/12) 0.010 MPa g (as of 12:00, 3/12) 36.8 °C (as of 12:00, 3/12) **2 (monitoring through wa	2137mm (as of 12:00, 3/12) 0.023 MPa g (as of 12:00, 3/12) 27.1 °C (as of 12:00, 3/12)
n B:-MPa g 11:00, 3/12) (Since there erature in feed-water nozzle:22.9 °C erature at reactor vessel bottom:22.8 °C 11:00, 3/12) (Since there erature at reactor vessel bottom:22.8 °C 11:00, 3/12) ellow seal:23.6 °C	System B:-MPa g (as of 11:00, 3/12) e is no water inflow in the system it is impossible to co Temperature in feed-water nozzle:41.7 °C Temperature at reactor vessel bottom:42.3 °C (as of 11:00, 3/12) D/W:0.122 MPa abs S/C: Downscale	System B: Downscale (C) %: (as of 11:00, 3/12) llect the data) Temperature in feed-water nozzle:41.9 °C Temperature at reactor vessel bottom:52.8 °C (as of 11:00, 3/12)	*2	(as of 12:00 , 3/12) 36.8 °C (as of 12:00 , 3/12) %2 (monitoring through wa	(as of 12:00 , 3/12) 27.1 °C (as of 12:00 , 3/12)
erature in feed-water nozzle:22.9 °C erature at reactor vessel bottom:22.8 °C 11:00, 3/12) 1053 MPa abs 122 MPa abs 11:20, 3/12) ellow seal:23.6 °C	Temperature in feed-water nozzle 41.7 °C Temperature at reactor vessel bottom 42.3 °C (as of 11:00, 3/12) D/W:0.122 MPa abs S/C: Downscale	Temperature in feed-water nozzle:41.9 °C Temperature at reactor vessel bottom:52.8 °C (as of 11:00 , 3/12)		(as of 12:00, 3/12) %2 (monitoring through wa	(as of 12:00, 3/12)
arature at reactor vessel bottom:22.8 °C 11:00, 3/12) .1053 MPa abs 122 MPa abs 122 MPa abs 11:00, 3/12) ellow seal:23.6 °C	Temperature at reactor vessel bottom 42.3 °C (as of 11:00 , 3/12) D/W:0.122 MPa abs S/C: Downscale %1	Temperature at reactor vessel bottom:52.8 $^\circ C$ (as of 11:00 , 3/12)			
122 MPa abs 33 11:00 , 3/12) ellow seal:23.6 ℃	S/C: Downscale %1	D/W:0.1016 MPa abs		%2 (monitoring through water temperature of the reactor)	
	,	S/C:0.1844 MPa abs (as of 11:00 , 3/12)	unnecessary since all fuel are takeoff)	%2 (Monitoring is unnecessary since heat removal of reactor is functioning.)	
	RPV bellow seal:43.7 °C	RPV bellow seal:54.2 °C %3 HVH return:45.0 °C (as of 11:00 , 3/12)			
)):4.17E+00Sv/h	(B):1.32E+01Sv/h	D/W(A):2.83E+00Sv/h %3 (B):1.80E+00Sv/h S/C(A):2.30E-01Sv/h (B):2.20E-01Sv/h (as of 11:00, 3/12)			
n B:31.9 ℃	System B:35.2 °C	System A:27.8 °C System B:27.8 °C (as of 11:00 , 3/12)			
0.00vol% (as of 11:00 , 3/12) %3	0.07vol% (as of 11:00 , 3/12) %3	-			
MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)			
MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)		-	
27.0°C (as of 11:00 , 3/12)	14.3℃ (as of 11:00 , 3/12)	14.2°C (as of 11:00 , 3/12)	26°C (as of 11:00 , 3/12)	16.3 °C (as of 12:00 , 3/12)	23.5 °C (as of 12:00 , 3/12)
2360mm (as of 11:00 , 3/12)	2070mm (as of 11:00 , 3/12)	5150mm (as of 11:00 , 3/12)	5919mm (as of 11:00 , 3/12)	*	:2
Receiving offsite power (P/C2C) Receiving offsite power (P/C4D)			Receiving offsite power		
			Common Spent Fuel Storage: 19°C	5u : SHC mode (from 10:55 ,2/29)	6u : SHC mode (from 10:44 ,3/8)
):1 3):4 1:6. 1:6 1:1 1:1 1:1 MF	0.0E-02Sv/h %1 .17E-00Sv/h %1 .30E-01Sv/h %1 .60E-01Sv/h .60E-01Sv/h .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs) .60E-02S0MPa abs)	00E-02Sv/h **1 D/W(A):620E+00Sv/h 17E-00Sv/h **1 B):250E+00Sv/h 30E-01Sv/h **1 B):250E+00Sv/h :60E-01Sv/h **1 S/C(A):500E-02Sv/h :60E-01Sv/h **1 :60E-01Sv/h **1 :60E-01Sv/h System A:35.3 °C :31.9 °C System A:35.3 °C :31.9 °C System B:35.2 °C :30.00vol% **3 (as of 11:00, 3/12) **3 0.00vol% **3 0.00vol% **3 (as of 11:00, 3/12) **3 0.384MPa g (0.485MPa abs) 0.384MPa g (0.528MPa abs) 2a g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 27.0°C 14.3°C (as of 11:00, 3/12) (as of 11:00, 3/12) 2360mm 2070mm (as of 11:00, 3/12) 2070mm	ODE-O2Sv/h **1 D/W(A)2283E+00Sv/h **3 17E+00Sv/h **1 D/W(A)2283E+00Sv/h **3 30E-01Sv/h **1 D/W(A)2283E+00Sv/h **1 30E-01Sv/h **1 D/W(A)2283E+00Sv/h **1 30E-01Sv/h **1 D/W(A)2283E+00Sv/h **1 30E-01Sv/h **1 D/W(A)2283E+00Sv/h **1 30E-01Sv/h **1 B/:120E-01Sv/h **1 i60E-01Sv/h ias of 11:00, 3/12 **1 B/:220E-01Sv/h i31.9 °C System A353 °C System A27.8 °C System B27.8 °C i31.9 °C ias of 11:00, 3/12 ias of 11:00, 3/12 **3 - 0.00vol% **3 0.07vol% **3 - (as of 11:00, 3/12) **3 0.384MPa g(0.485MPa abs) 0.384MPa g(0.485MPa abs) 0.427MPa g(0.528MPa abs) **a g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) **a g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 14.2°C <	ODC-025/h 1 DV(A)/620E-005//h DV(A)/620E-005//h DV(A)/620E-005//h DV(A)/620E-005//h X3 17E-005//h X11 B/2.50E-005//h X11 B/2.50E-005//h X3 B/3.180E-005//h X3 30E-015//h B/2.50E-005//h X11 B/2.50E-005//h X3 B/3.180E-005//h X3 30E-015//h B/3.132E-015//h K1 B/2.132E-015//h K3 B/2.132E-015//h B/2.22E-015//h B/2.22E-015//h </td <td>ODC-025V/h %1 DW(A1/252E+005V/h %3 1/TE-005V/h %1 DW(A1/252E+005V/h %3 1/TE-005V/h %1 S/CA1/2005V/h %1 30E-015V/h %1 S/CA1/200E-025V/h %3 iB1:32E-015V/h (as of 1100.3/12) (as of 1100.3/12) %3 ias of 1100.3/12) (as of 1100.3/12) (as of 1100.3/12) %3 ias of 1100.3/12) %3 0.070/0% %3 - ias of 1100.3/12) (as of 1100.3/12) %3 - - ias of 1100.3/12) %3 0.0270/0% %3 - - ias of 1100.3/12) %3 0.0270/0% %3 - - ia g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) - - ia g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) - - - ia g (1100.3/12) (as of 1100.3/12) (as of 1100.3/12)</td>	ODC-025V/h %1 DW(A1/252E+005V/h %3 1/TE-005V/h %1 DW(A1/252E+005V/h %3 1/TE-005V/h %1 S/CA1/2005V/h %1 30E-015V/h %1 S/CA1/200E-025V/h %3 iB1:32E-015V/h (as of 1100.3/12) (as of 1100.3/12) %3 ias of 1100.3/12) (as of 1100.3/12) (as of 1100.3/12) %3 ias of 1100.3/12) %3 0.070/0% %3 - ias of 1100.3/12) (as of 1100.3/12) %3 - - ias of 1100.3/12) %3 0.0270/0% %3 - - ias of 1100.3/12) %3 0.0270/0% %3 - - ia g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) - - ia g (0.528MPa abs) 0.427MPa g (0.528MPa abs) 0.427MPa g (0.528MPa abs) - - - ia g (1100.3/12) (as of 1100.3/12) (as of 1100.3/12)

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) %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 (Unit 1) 1/1Ch (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)
	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 12:00 on March 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,RPV bellow air temperature, 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.HVH return temperature Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor Unit 1-2 Hydrogen Density of PCV : In case that the instrument indicates minus hydrogen density, "O%" is recorded. (Because there's the possibility of minus indication due to the instrumental precision when hydrogen density is very location.	