※The red words are revised due to the " Incorrect data for pressure at Primary Containment Vessel of Unit1 " which we announced on November 29.

Fukushima Daiichi Nuclear Power Station　Plant Parameters

[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.

As of 06:00 on July 28

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 3.7m^3/h (as of 5:00 , 7/28)	Fresh water feeding Feed water system 3.5m^3/h (as of 5:00 , 7/28)	Fresh water feeding Feed water system 9.0m^3/h (as of 5:00 , 7/28)		※2 （Heat removal of the reactor is functioning. Water injection is unnecessary）	
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1650 mm ※3 (as of 5:00 , 7/28)	Fuel range A:-1850 mm ※3 Fuel range B:-2150 mm ※3 (as of 5:00 , 7/28)	Fuel range A:-1750 mm ※3 Fuel range B:-2150 mm ※3 (as of 5:00 , 7/28)		Stoppage range 1959mm (as of 6:00 , 7/28)	Stoppage range 2113mm (as of 6:00 , 7/28)
Pressure in the reactor	System A:0.026 MPa g System B:-MPa g (as of 5:00 , 7/28)	System A:0.034 MPa g System B:-MPa g (as of 5:00 , 7/28)	System A:-0.170 MPa g (A)※3 System B:-0.100 MPa g (C)※3 (as of 5:00 , 7/28)		0.012 MPa g (as of 6:00 , 7/28)	0.021 MPa g (as of 6:00 , 7/28)
Water temperature of the reactor	（Since there is no water inflow in the system it is impossible to collect the data）				25.1 ℃ (as of 6:00 , 7/28)	54.1 ℃ (as of 6:00 , 7/28)
Temperature around the reactor vessel	Temperature in feed-water nozzle:107.5 ℃ Temperature at reactor vessel bottom:95.9 ℃ (as of 5:00 , 7/28)	Temperature in feed-water nozzle:112.0 ℃ Temperature at reactor vessel bottom:123.7 ℃ (as of 5:00 , 7/28)	Temperature in feed-water nozzle:124.9 ℃ Temperature at reactor vessel bottom:107.5 ℃ (as of 5:00 , 7/28)	※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:0.1333 MPa abs* S/C:0.115 MPa abs (as of 5:00 , 7/28)	D/W:0.136 MPa abs S/C: Downscale ※1 (as of 5:00 , 7/28)	D/W:0.1016 MPa abs S/C:0.1843 MPa abs (as of 5:00 , 7/28)		※2 （Monitoring is unnecessary since heat removal of reactor is functioning.）	
D/W Atmosphere temperature	RPV bellow seal:95.6 ℃ HVH return:97.2 ℃ (as of 5:00 , 7/28)	RPV bellow seal:120℃ ※3 HVH return:125℃ (as of 5:00 , 7/28)	RPV bellow seal:131.6 ℃ ※3 HVH return:129.1 ℃ (as of 5:00 , 7/28)			
CAMS radiation monitor	D/W(A):0.00E+00Sv/h ※1 (B):3.99E+01Sv/h ※1 S/C(A):7.13E-01Sv/h (B):7.38E-01Sv/h (as of 5:00 , 7/28)	D/W(A):1.18E+01Sv/h (B):1.41E+01Sv/h S/C(A):1.64E-01Sv/h (B):6.94E+00Sv/h ※1 (as of 5:00 , 7/28)	D/W(A):4.01E+00Sv/h ※3 (B):2.88E+00Sv/h S/C(A):3.63E-01Sv/h (B):3.53E-01Sv/h (as of 5:00 , 7/28)			
Temperature in S/C	System A:46.0 ℃ System B:45.8 ℃ (as of 5:00 , 7/28)	System A:50.7 ℃ System B:50.6 ℃ (as of 5:00 , 7/28)	System A:45.8 ℃ System B:45.9 ℃ (as of 5:00 , 7/28)			
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	※1	34.0℃ (as of 5:00 , 7/28)	31.5 ℃ (as of 5:00 , 7/28)	88~90℃ (as of 16:00 , 7/27)	28.4 ℃ (as of 6:00 , 7/28)	42.0 ℃ (as of 6:00 , 7/28)
FPC skimmer surge tank level	※1	2100mm (as of 5:00 , 7/28)	※1	6600mm (as of 5:00 , 7/28)	※2	
Power source	Receiving offsite power（P/C2C）		Receiving offsite power（P/C4D）		Receiving offsite power	
Others	*Data of Pressure in D/W of Unit 1 on 11/29 was corrected because it was incorrect.			Temperature in the Common Spent Fuel Storage: 36℃ (as of 6:20 , 7/27)	5u : SHC mode (from 14:45 ,7/15)	6u: Non-thermal mode (from 18:08 ,7/27)

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

Item	Recording manner	Measurement manner	Ch number or number of systems
Status of water injection to the reactor	Water inflow	Temporary	System 1／1
Water level in the reactors	Data measured by the water gauge, which monitor the fuel range	Main indicator	System A　1／1Ch System B　1／1Ch
Pressure in the reactor	Measure voltage value of pressure instrument by the main indicator panel and convert to the pressure. One representing value is noted among multiple data on each System A, B.	Unit1／2　Temporary Unit 3　Measures voltage value through the main indicator panel and converts them to the pressure	Temporary indicator:　1／1 system Main:System A　1／2Ch System B　1／2Ch
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.	Main recorder	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 main instrument. Measure voltage value by the main instrument panel converted to the pressure in case main instruments are not in function. As to the D/W pressure of Unit2, the reading of the temporary indicator is described. （D/W：Dry Well、S/C：Suppression Chamber）	（D/W） Unit 1:Main recorder Unit 2:Temporary Unit 3:Main instrument panel (converted from voltage) （S/C） Unit 1/2:Main indicator Unit 3 :Main instrument panel (converted from voltage)	（D/W） Main recorder wide range 1／1Ch (Unit 1) Temporary indicator:　1／1 system (Unit 2) Main instrument panel 1／4Ch (Unit 3) （S/C） Main indicator 1／1system (Unit 1/2) Main instrument panel 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）	Main recorder	RPV Bellows Air　1／5Ch D/W HVH return　1／5Ch
CAMS radiation monitor	Data from the instrument reading of main indicator. （CAMS：Containment Atmospheric Monitoring System）	Main indicator	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 the instrument reading of main recorder. One representing value is noted among multiple data on each System A, B.	Main recorder	System A1／4Ch（Unit 1）、8Ch（Unit 2／3） System B1／4Ch（Unit 1）、8Ch（Unit 2／3）
Temperature in the spent fuel pool	Data from the instrument reading or from the measurement reading of samples of main indicator and temporary insuturment （Non-thermal mode：Urgent Heat load Mode、SHC mode：Shut down Cooling Mode）	Unit1/2:Main recorder Unit3/4:Temporary indicator	Main:1／2Ch（Unit 1）、1Ch（Unit 2） Temporary indicator:　1／1 system（Unit 3/4）
FPC skimmer surge tank level	Data from the instrument reading of main indicator （FPC：Fuel Pool Cooling and Filtering System）	Main indicator	System 1／1

■Supplemental explanation for notes

Item	Contents	Status As of 06:00 on July 28
Instrument failure	Instrument failure：down of instrument reading（over）scale／failure of instrument	Unit 1　CAMS D/W radiation monitor, spent fuel pool temperature , Level of skimmer surge tanks Unit 2　Pressure in S/C, CAMS S/C(B) radiation monitor Unit 3　Level of skimmer surge tanks
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) Unit 2　Reactor water level, RPV bellow air temperature Unit 3　Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor