Status of countermeasures for restoring from the accident at Fukushima Daiich Unit 1 through 4. As of June 21st, 2011. (Estimated by JAIF)

Bas inform Plant s when l	-			Unit 1	Unit 2	Unit 3	Unit 4	Notes		
Plant s			pe of plant	BWR-3	BWR-4	BWR-4	BWR-4			
when I		T Tope	hermal power output ration status	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 Outage			
		S No. of nuclear for	uels loaded in the reactor		548	548	0			
th	-	No. or spent i	uels stored in the SFP		587	514	1331			
eartho		,	al power supply			to the earthquake				
 -			ncy power supply	Damaged (core melt*1)	Damaged (core melt*1)	er was lost but stopped later when to Damaged (core melt*1)	No fuels loaded			
i l	9	RPV str	ructural integrity	Limited damage and leakage	Unknown	Unknown	No damage			
i l	7	rs -	ructural integrity	Damage and leakage suspected	Damage and leakage suspected	Damage and leakage suspected	No damage			
i l	Ľ	Co	ore cooling	Not functional	Not functional	Not functional	Not required			
1 .			(April through June)		n cooling reusing accumulated war Injecting freshwater into the reactor	Injecting freshwater into the reactor		Total injection flow: 20.3-20.4m3/h[6/20 11:00]		
li,	Reactor cooling measures	Cooling by m	Cooling by minimum injection rate Establishment of	via feed water line at 4.5m3/h	via feed water line at 5.0m3/h	via feed water line at 10.8-10.9 m3/h	_			
		ς Esta		(0: 1:: 1 1 1 1 1	Injection line established		_			
ţ		70	g injection cooling		ollowing the radioactive water process Work for injection line in progress	Work for injection line in progress				
0 0		9	s injection into PCV	Injection continued [4/6-]	[4/16-]	[4/16-]	_			
"	٠ ١ :		CV after sealing leaks	Studying Work for secondary-loop piping	Studying Construction work to be started after	Studying Construction work to be started after	_			
i		Securing hea	at exchange function	in progress (5/13-)	improving the work environment	improving the work environment	_			
i	8	Jge	ng work environment		ng the work to restore reactor cooling.					
i		Improving work environmen			is underway in each unit. <u>TEPCO oper</u> educe its high humidity, which has hamp	ned the doors [6/19-20] and the carry-in pered the work, after filtering and	_			
ı 上				removing the airborne radioactive mate	oving the airborne radioactive materials in the building and confirming the little influence to the invironment.					
ı			el integrity in SFP SFP cooling	Unknown						
ģ	20 Z	Goal of STEP 1 (April through June)		Not functional Stable cooling						
; <u></u>	cooling	D !! ! !!	· •	Injecting freshwater	Switching from freshwater injection	Injecting freshwater	Injecting freshwater via alternative	Injecting corrosion inhibitor,		
_ 0		43	Reliability improvement in injection operation	via SFP coolant clean up line	via SFP coolant clean up line to	via SFP coolant clean up line	injection line, Preparing system for	hydrazine (H2NNH2), with		
sken		easr			circulation cooling	Planned (Construction to be	cooling in a stable manner	freshwater [5/9-]		
s ts	Š	Ĕ Circulatio	on cooling with Hx	Planned	In operation	started in late June)	Planned			
anre 🔚	9	Increase a	nd accumulation of				20. 0 [5 (24])			
neas	Status	radioactively	contaminated water	High level radioactive wastewater is accumulating in the R/B, T/B and RW/B of each unit. (about 92,000m3 [5/31])				<u> </u>		
terr		Goal of STEP 1	(April through June)	Securing storage place of high level radioactive wastewater						
uno				-Storage capacity of 14800m3 (10,000m3z+4,800m3) for highly radioactive wastewater are secured by using the Centralized Radiation Waste Treatment Facility as water storage placeUnderground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August				PMB: Process Main Building MWRTB: Miscellaneous Soli		
5		Securir	ng storage place							
SS C	<u> </u>			-Storage tanks to receive proces	to to the installed in the find Adgust (storage capacity, approx. 19,000ms) to be installed in the find Adgust (torage tanks to receive processed, low to middle level radioactive wastewater with the capacity of approx. 13,000m3 installed (-5/31) installed (-5/31) installed at 20,000m3/month from the end of June.					
he progress of countermeasures taken	Nar.		adiaasti					rs for		
pro		Transfer of ra	radioactive waste water	Highly radioactive wastewater in I	Jnit 2 and unit 3 has being transla	ated the Centralized Radiation Waste	Treatment Facility since April 19.			
the the		ш 				er started operation on June 17, and				
Current status of the plant and t		Installation of	water process facility	investigation. (processing capacity desalination of processed radioac						
ant	2	Preventing co	ntamination of the sea	·		es into full-scale operation. [6/13]				
협		1 To Voltaing Gol	etc.		utside the T/Bs completed [6/10]					
ţ		Preventing of	overflow of high level	Highly radioactive wastewater tre	atment system should be operate	d in stable and effective manner to p	prevent wastewater accumulated			
s of	-	0	tive waste water	in unit-2 and 3 overflowing.						
atn	-	Goal of STEP 1 ຑ「	(April through June)	Storing and processing low level radio active wastewater						
it st	9	Increasing storage capacity 18,400 tons(2,200+6,200+10,000) of tanks installed. 12,000 tons of receiving capacity to be secured by the end of June.								
rrer L	+	Radioactive materials in the ground water collected and controlled in the facility, and the well water in the Fukushima Dajichi site, [4/7-]								
			water	controlled in the facility, and the well water in the Fukushima Daiichi site. [4/7-]						
gro-	ater	Goal of STEP 1 (April through June) Preventing contaminated underground water from spreading to the sea Pumps for correcting underground water called "subdrain" is to be restored in the middle.					Indusir is to be treated in			
Undergr	×	Mitigation of are	aundwater contamination		accordance with the contaminated water management plan.					
5	8	E Wildigation of green	Janawator Gontamination	Construction of wall for undergrou	und water isolation is under consid	deration.				
Φ		ω Scattering of	radioactive materials	Radioactive materials and radioad	tively contaminated debris scatte	red due to the hydrogen explosion at	t Unit 1 and 3 R/Bs and other	Survey map on the site:		
in the	_ -	¬ -	side of the facilities	events.				http://www.tepco.co.jp/en/nu/fukush ma-np/f1/index3-e.html		
oactive materials i	Soi	ر R∕	B integrity	Severely damaged	Partly opened	Severely damaged	Severely damaged			
ateri	J.	Goal of STEP 1 (April through June) Dispersion of inhibitor			ve materials in the facilities and th					
Ë e	sphe			Dispersion to the outside of buildings in progress [full operation from 4/26-] Dispersion to the R/Bs and T/Bs [5/27-]						
ctiv	tmo	Rem	oval of debris	Removal of debris using remote-of						
Radioactive	a a	Installing R/B cover		Preparation work in progress [5/13-	_	Designing	Planning			
ag.	•	E Install	ing to b cover	Installation work of the cover to be		Designing	Flatifiling			
	o.	Goal of STEP 1	(April through June)	Enhancement of countermeasures						
	t, etc.	Countermeas	sures against tsunami	-Transferring emergency power sources to the upland [4/15] -Addition of redundant water injection line [-4/15]						
Tsunami,	men	res		-Setting fire trucks etc. to the upland [-4/18] -Planning to install a temporary tide barriers [by the end of June] -Work for installing supporting structure under the bottom of the Unit 4 SFP in progress. Steel pillars installed [6/7-6/20]. Work to be						
, ∣⊑	lrce	ชื่อ Planning an	d implementation of	completed by filling concrete and grout by the end of July.						
	reinforcement,	reinforcement work of each unit			grout by the end of July.	Init 4 SFP in progress. <u>Steel pillars i</u>	id of June] installed [6/7-6/20]. Work to be			
Tsu	ji	=	nt work of each unit	-Soundness of structure analysis	grout by the end of July. and evaluation for each unit in pro		id of June] installed [6/7-6/20]. Work to be			
Tsu	reinf		nt work of each unit	-Soundness of structure analysis Pipe work completed, pumping ve	grout by the end of July. and evaluation for each unit in pro hicle set [5/17]	Init 4 SFP in progress. Steel pillars i	id of June] installed [6/7-6/20]. Work to be			
Tsu	reinf	Reactor	nt work of each unit radiation shielding water level (mm)	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge,	grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:-1500, B:-2150	Init 4 SFP in progress. Steel pillars in rogress. Seismic safety confirmed for A:-1800, B:-2300	id of June] installed [6/7-6/20]. Work to be	■"A", "B" shows the group of the redundant instruments		
Tsu		Reactor [6 Reactor	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa)	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with	grout by the end of July. and evaluation for each unit in pro hicle set [5/17]	Init 4 SFP in progress. Steel pillars i	id of June] installed [6/7-6/20]. Work to be	the redundant instruments Reactor water level shows		
l l l l l l l l l l l l l l l l l l l		Reactor [6 Reactor	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00]	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-]	grout by the end of July. and evaluation for each unit in prohicle set [5/17] A:=1500, B:=2150 Reading mostly steady A:=0.014, B:=0.000 Reading mostly steady**	A: -1800, B: -2300 Reading mostly steady A: -0.147, B: -0.102 Reading mostly steady**	id of June] installed [6/7-6/20]. Work to be	the redundant instruments		
Tsu	Reactor	Reactor [6 Reactor [6 RPV temperat	nt work of each unit radiation shielding water level (mm) /20 11:00] r pressure (MPa) /20 11:00] ure at feedwater nozzle	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650. Reading mostly steady A:0.027. B:-, Measured with temporary pressure indicator [6/4-] 113.8	grout by the end of July. and evaluation for each unit in problems to the set [5/17] A: -1500, B: -2150 Reading mostly steady A: -0.014, B: -0.000 Reading mostly steady** 107.7	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.147, B:-0.102 Reading mostly steady** 149.9	id of June] installed [6/7-6/20]. Work to be	the redundant instruments Reactor water level shows the length of the fuel not covered with water Trend data of primary		
Tsu Tsu		Reactor [6] Reactor [6] RPV temperat (°C; RPV tempe	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle [6/20 11:00] rature at the bottom	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-]	grout by the end of July. and evaluation for each unit in prohicle set [5/17] A:=1500, B:=2150 Reading mostly steady A:=0.014, B:=0.000 Reading mostly steady**	A: -1800, B: -2300 Reading mostly steady A: -0.147, B: -0.102 Reading mostly steady**	id of June] installed [6/7-6/20]. Work to be	the redundant instruments Reactor water level shows the length of the fuel not covered with water		
T _{su}		Reactor [6] Reactor [6] RPV temperat (°C) RPV tempe of the vess	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle l[6/20 11:00] rature at the bottom sel (°C)[6/20 11:00]	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:_1650. Reading mostly steady A:0.027. B:¬, Measured with temporary pressure indicator [6/4-] 113.8 Reading mostly steady** 98.7 Reading mostly steady	grout by the end of July. and evaluation for each unit in pro hicle set [5/17] A:-1500	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.147, B:-0.102 Reading mostly steady** 149.9 Upward trend ending** 126.0 Upward trend ending	id of June] installed [6/7-6/20]. Work to be	■ Reactor water level shows the length of the fuel not covered with water ■ Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page;		
	Reactor	Reactor [6] Reactor [6] RPV temperat (°C) RPV tempe of the vesi Pressure [6]	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle [6/20 11:00] rature at the bottom sel (°C)[6/20 11:00] of drywell (MPa) /20 11:00]	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650. Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] 113.8 Reading mostly steady** 98.7 Reading mostly steady 0.1347 Reading mostly steady	grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:-1500 B:-2150 Reading mostly steady A:-0.014 B:-0.000 Reading mostly steady** 107.7 Reading mostly steady 108.1	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.147, B:-0.102 Reading mostly steady** 149.9 Upward trend ending** 126.0	id of June] installed [6/7-6/20]. Work to be	the redundant instruments Reactor water level shows the length of the fuel not covered with water Trend data of primary parameters are available at Japan Nuclear Technology		
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	Reactor	Reactor [6] Reactor [6] RPV temperat (°C; RPV tempe of the ves: Pressure [6] Pressure of st [6] Water tel	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle [6/20 11:00] rature at the bottom sel (°C)[6/20 11:00] of drywell (MPa) /20 11:00] uppression pool (MPa) /20 11:00] mperature of SFP	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650. Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] 113.8 Reading mostly steady** 98.7 Reading mostly steady 0.1347 Reading mostly steady 0.115 Reading mostly steady Instrument failure	grout by the end of July. and evaluation for each unit in prohicle set [5/17] A:-1500, B:-2150 Reading mostly steady A:-0.014, B:-0.000 Reading mostly steady** 107.7 Reading mostly steady 108.1 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/20 11:00]	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.147, B:-0.102 Reading mostly steady** 149.9 Upward trend ending** 126.0 Upward trend ending 0.1003 Reading mostly steady 0.1846 Reading mostly steady 62°C (5/8)	nd of June] installed [6/7-6/20]. Work to be or Unit 1 and 4 [5/28] 91-93°C (6/19 16:00)	the redundant instruments Reactor water level shows the length of the fuel not covered with water Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/englis h/shokai/special_4.html". **Continuously monitoring the		
	PCV Reactor	Reactor [6] Reactor [6] RPV temperat (°C) RPV tempe of the ves: Pressure [6] Pressure of st	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle [6/20 11:00] rature at the bottom sel (°C)[6/20 11:00] of drywell (MPa) /20 11:00] uppression pool (MPa) /20 11:00] mperature of SFP Volume*3	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650. Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] 113.8 Reading mostly steady** 98.7 Reading mostly steady 0.1347 Reading mostly steady 0.115 Reading mostly steady Instrument failure 3,900m3[5/31]	grout by the end of July. and evaluation for each unit in prohicle set [5/17] A:-1500 B:-2150 Reading mostly steady A:-0.014 B:-0.000 Reading mostly steady** 107.7 Reading mostly steady 108.1 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/20 11:00] 6,000m3[5/31]	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for R: -1800, B: -2300 Reading mostly steady A: -0.147, B: -0.102 Reading mostly steady** 149.9 Upward trend ending** 126.0 Upward trend ending 0.1003 Reading mostly steady 0.1846 Reading mostly steady 62°C (5/8) 6,400m3[5/31]	nd of June] installed [6/7-6/20]. Work to be or Unit 1 and 4 [5/28]	the redundant instruments Reactor water level shows the length of the fuel not covered with water Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/english/shokai/special_4.html". **Continuously monitoring the		
imeters	o PCV Reactor	Reactor [6] Reactor [6] RPV temperat (°C) RPV tempe of the ves: Pressure [6] Pressure of st [6] Water tel R/B basement	nt work of each unit radiation shielding water level (mm) /20 11:00] pressure (MPa) /20 11:00] ure at feedwater nozzle [6/20 11:00] rature at the bottom sel (°C)[6/20 11:00] of drywell (MPa) /20 11:00] uppression pool (MPa) /20 11:00] mperature of SFP	-Soundness of structure analysis Pipe work completed, pumping ve A:Below the lower end of gauge, B:-1650. Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] 113.8 Reading mostly steady** 98.7 Reading mostly steady 0.1347 Reading mostly steady 0.115 Reading mostly steady Instrument failure	grout by the end of July. and evaluation for each unit in prohicle set [5/17] A:-1500, B:-2150 Reading mostly steady A:-0.014, B:-0.000 Reading mostly steady** 107.7 Reading mostly steady 108.1 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/20 11:00]	nit 4 SFP in progress. Steel pillars is rogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.147, B:-0.102 Reading mostly steady** 149.9 Upward trend ending** 126.0 Upward trend ending 0.1003 Reading mostly steady 0.1846 Reading mostly steady 62°C (5/8)	nd of June] installed [6/7-6/20]. Work to be or Unit 1 and 4 [5/28] 91-93°C (6/19 16:00)	the redundant instruments Reactor water level shows the length of the fuel not covered with water Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/english/shokai/special_4.html". **Continuously monitoring the		
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*1 TEPCO's analysis [announced on 5/15,23] *2 TEPCO estimated that there was no severe damage to the fuel in the Unit 4 SFP based on the concentration of radioactive materials in the pool and the pictures of the pool. [4/13,28,29]

*3 Rough estimate by TEPCO [announced on 5/31]

[Source]

Government Nuclear Emergency Response Headquarters: News Release,

Press conference NISA: News Release, Press conference TEPCO: Press Release, Press Conference

[Abbreviations]
SFP: Spent Fuel Storage Pool
EDG: Emergency Diesel Generator RPV: Reactor Pressure Vessel

PCV: Primary Containment Vessel

R/B: Reactor Building
T/B: Turbine Building
RW/B: Radioactive Waste Disposal Building RHR: Residual Heat Removal system

CST: Condensate water Storage Tank

Hx: Heat exchanger NPS: Nuclear power station



