Bas inform Plant s							11 1. 0		** .	
	asic		Type of plant		Unit 1 BWR-3	Unit 2 BWR-4	Unit 3 BWR-4	Unit 4 BWR-4	Notes	
Plant s			Electric / Thermal power Operation status		460/1380 In service -> Shutdown	784/2381 In service -> Shutdown		784/2381 Outage		
when			No. of nuclear fuels loaded in	in the reactor	400	548 587	548 514	0 1331		
th	the thquake		No. of spent fuels stored in the SFP External power supply			Stopped due to	o the earthquake			
earting	iqua —-		Emergency power supply				er was lost but stopped later when ts			
		Status	Core and fuel integrity RPV structural integrity PCV structural integrity Core cooling oal of STEP 1 (April through June)		Damaged (core melt*1) Limited damage and leakage	Unknown	Damaged (core melt*1) Unknown	No fuels loaded No damage		
					Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	No damage Not required		
	cooling				Stable cooling (circulating injection	cooling reusing accumulated wat	er)	Not required —		
ğ.			Cooling by minimum injection rate		Injecting freshwater into the reactor via feed water line at 3.4 m3/h[6/27]	Injecting freshwater into the reactor via feed water line at 3.5 m3/h	Injecting freshwater into the reactor via feed water line at 9.0-9.1 m3/h	_	Decreasing the injection rate to prevent the overflow of the	
	000	es	Establishment o	of	via reed water line at <u>0.4 (110/11[0/27]</u>)	[6/26] Injection line established	[6/26]		accumulated water in the facilities	
10	Reactor	nge measures	circulating injection of Nitrogen gas injection is			ollowing the radioactive water process Work for injection line nearly	s facility starts its operation) Work for injection line in progress	_		
ď	چ ا		Flooding of PCV after se		Injection continued [4/6-] Studying	complated Studying	[4/16-] Studying			
			Securing heat exchange		Work for secondary-loop piping	Construction work to be started after improving the work environment	Construction work to be started after improving the work environment	_		
					in progress (5/13-) High radiation circumstance is hampering	g the work to restore reactor cooling. I	Preparation work such as removing			
		Challenge	≝ Improving work environment		radioactive debris, radiation monitoring is underway in each unit. Large-scale work inside the R/B started at unit-1 and 2 after radioactive substance and humidity in the air inside the R/B dropped.					
		Status	Fuel integrity in S			Most spent fuels not damaged*2		Most spent fuels not damaged*2		
٥	g B		SFP cooling soal of STEP 1 (April throu		Injection function recovered Stable cooling	Function recovered	Injection function recovered	Not functional		
iloo	cooling	Status measures	Reliability improver	ement	Injecting freshwater	Switching from freshwater injection	Injecting freshwater via SFP coolant clean up line.	Injecting freshwater via alternative	Injecting corrosion inhibitor,	
taken	J-F		in injection operation	via SFP coolant clean up line	via SFP coolant clean up line to circulation cooling	Bolic acid added to neutralize the alkalinized pool water [6/26,27]	injection line, Preparing system for cooling in a stable manner	hydrazine (H2NNH2), with freshwater [5/9-]		
+	0		Circulation cooling w	wi+b ∐v	Dlamad	To amounting	Planned (Construction to be	Dlannad		
countermeasures					Planned	In operation	started in late June)	Planned		
rme			Increase and accumula radioactively contaminate		High level radioactive wastewater i	s accumulating in the R/B, T/B a	nd RW/B of each unit. (about 92,000	m3 [5/31])		
nute			ioal of STEP 1 (April throu	ugh June)	Securing storage place of high leve			· O		
of oc	Je				-Storage capacity of 14800m3 (10, Waste Treatment Facility as water	PMB: Process Main Building				
			Securing storage p		-Underground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August -Storage tanks to receive processed, low to middle level radioactive wastewater with the capacity of approx. 13,000m3 installed (-5/31).				MWRTB: Miscellaneous Solid	
progress	water	ures			Additional capacity to be installed	Waste Volume Reduction Treatment Building				
		meası	Transfer of radioactive waste water		Highly radioactive wastewater in U	nit 2 and unit 3 has been translate	ed the Centralized Radiation Waste 1	reatment Facility since April 19.		
plant and the	Accumulated	₹	Installation of water process facility		5 ,	, , ,	r that has processing capacity of 1,2 the system is to be reused for react	, ,		
Slant	Acc	Challenge	Preventing contamination of the sea,		-Silt fences installedSeawater c	irculatory purification system goe	s into full-scale operation. [6/13]			
of the p			etc. Preventing overflow of high level		-Blocking the concrete tunnels out		etc. in stable and effective manner to pr	avent wastowater accumulated in		
s of			radioactive waste w	water	unit-2 and 3 overflowing.					
status			Goal of STEP 1 (April through June) Storing and processing low level radioactive wastewater 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.							
ent s		ımeası	Increasing storage ca	· · ·						
Current		Statı	Radioactive materials in t water	the ground	Radioactive iodine, I-131, cesium, Controlled in the facility, and the w					
		res	Goal of STEP 1 (April thro	rough June)	Preventing contaminated underground water from spreading to the sea Pumps for correcting underground water called "subdrain" is to be restored in the middle of June. Subdrain is to be treated in					
Undergro-	>	easn	Mitigation of groundwater co	ontamination	accordance with the contaminated					
)		E					. 1			
in the						nd water isolation is under consid				
als ir		atus	Scattering of radioactive to the outside of the f			nd water isolation is under consid	eration. ed due to the hydrogen explosion at	Unit 1 and 3 R/Bs and other	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushima- no/f1/index3-e html	
	soil	Status	_	facilities	Radioactive materials and radioacti	nd water isolation is under consid		Unit 1 and 3 R/Bs and other Severely damaged		
nateri	ere / soil	Status	to the outside of the f R/B integrity loal of STEP 1 (April throu	facilities , ugh June)	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive	nd water isolation is under consider vely contaminated debris scattered. Partly opened e materials in the facilities and the	Severely damaged	Severely damaged	http://www.tepco.co.jp/en/nu/fukushima-	
tive materi	here / so	G	to the outside of the f	facilities ugh June) bitor	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive	vely contaminated debris scattered Partly opened e materials in the facilities and the generation from	Severely damaged e site n 4/26-] Dispersion to the R/Bs and	Severely damaged	http://www.tepco.co.jp/en/nu/fukushima-	
dioactive materi	here / so	G	to the outside of the f R/B integrity ioal of STEP 1 (April through Dispersion of inhib Removal of debr	facilities ugh June) bitor ris	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-conference of the preparation work in progress [5/13-]	vely contaminated debris scattered Partly opened e materials in the facilities and the generation from	Severely damaged e site n 4/26-] Dispersion to the R/Bs and ss [4/10-]	Severely damaged	http://www.tepco.co.jp/en/nu/fukushima-	
Radioactive materi	here / so	measures Ω Status	to the outside of the f R/B integrity ioal of STEP 1 (April throu Dispersion of inhib	facilities ugh June) bitor ris	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-co	vely contaminated debris scattered Partly opened e materials in the facilities and the generation from	Severely damaged e site n 4/26-] Dispersion to the R/Bs and	Severely damaged	http://www.tepco.co.jp/en/nu/fukushima-	
Radi	atmosphere / so	measures D	to the outside of the f R/B integrity ioal of STEP 1 (April through the first through through the first through the first through the first through the fir	facilities ugh June) bitor ris over ugh June)	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-conference of the coverto be started on 6/27 Enhancement of countermeasures	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc.	Severely damaged e site n 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing	Severely damaged d T/Bs [5/27–] Planning	http://www.tepco.co.jp/en/nu/fukushima-	
Radi	etc. atmosphere / so	G measures	to the outside of the f R/B integrity coal of STEP 1 (April through Dispersion of inhib Removal of debr Installing R/B coal	facilities ugh June) bitor ris over ugh June)	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-conference of the cover to be started on 6/27 Enhancement of countermeasures - Transferring emergency power so - Setting fire trucks etc. to the uplate of the cover to the uplate of the uplat	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. urces to the upland [4/15] -Addiand [-4/18] -Planning to install a	Severely damaged e site n 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing ition of redundant water injection line temporary tide barriers [by the end	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June]	http://www.tepco.co.jp/en/nu/fukushima-	
sunami, Radi	cement, etc. atmosphere / so	measures D	to the outside of the f R/B integrity loal of STEP 1 (April through the first through through the first through the fir	facilities y ugh June) bitor pris over ugh June) ast tsunami entation of	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-conference of the cover to be started on 6/27 Enhancement of countermeasures - Transferring emergency power so - Setting fire trucks etc. to the uplate of the cover to the uplate of the uplat	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress — against aftershocks, etc. urces to the upland [4/15] -Addiand [-4/18] -Planning to install a cture under the bottom of the University.	Severely damaged e site n 4/26-] Dispersion to the R/Bs and site [4/10-] Designing	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June]	http://www.tepco.co.jp/en/nu/fukushima-	
sunami, Radi	cement, etc. atmosphere / so	G measures	to the outside of the f R/B integrity coal of STEP 1 (April through Dispersion of inhib Removal of debr Installing R/B coal coal of STEP 1 (April through Countermeasures agains Planning and implement reinforcement work of e	facilities (ugh June) bitor pris over ugh June) ast tsunami ntation of each unit	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-construction work in progress [5/13-]. Installation work of the cover to be started on 6/27 Enhancement of countermeasures -Transferring emergency power so setting fire trucks etc. to the uplant work for installing supporting struction completed by filling concrete and gesoundness of structure analysis and sevents.	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress — against aftershocks, etc. urces to the upland [4/15] —Addiand [-4/18] —Planning to install a cture under the bottom of the Univous by the end of July. and evaluation for each unit in progress.	Severely damaged e site n 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing ition of redundant water injection line temporary tide barriers [by the end	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] stalled [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima-	
sunami, Radi	etc. atmosphere / so	G measures	to the outside of the f R/B integrity loal of STEP 1 (April through the first through through the first through the fir	facilities (ugh June) bitor pris pover ugh June) ast tsunami intation of each unit nielding	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-construction of the cover to be started on 6/27 Enhancement of countermeasures - Transferring emergency power so - Setting fire trucks etc. to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction of the cover to the uplant - Work for installing supporting struction - Work for installing supporting structio	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress — against aftershocks, etc. urces to the upland [4/15] —Addiand [-4/18] —Planning to install a cture under the bottom of the Univous by the end of July. and evaluation for each unit in progress.	Severely damaged e site n 4/26-] Dispersion to the R/Bs and site [4/10-] Designing ition of redundant water injection line at temporary tide barriers [by the end ait 4 SFP in progress. Steel pillars in	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] stalled [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima-	
sunami, Radi	reinforcement, etc. atmosphere / so	measures D	to the outside of the f R/B integrity coal of STEP 1 (April through Dispersion of inhib Removal of debrary Installing R/B coal of STEP 1 (April through Countermeasures against Planning and implement reinforcement work of a Various radiation shit Reactor water level [6/27 07:30]	facilities (ugh June) bitor pris over ugh June) ast tsunami ntation of each unit nielding i (mm)	Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—construction of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power so—Setting fire trucks etc. to the uplate —Work for installing supporting struction completed by filling concrete and generating—Soundness of structure analysis at Pipe work completed, pumping vehalted —Selow the lower end of gauge, B:—1700**, Reading mostly steady	Partly opened e materials in the facilities and the gs in progress [full operation from antrolled heavy machine in progress — against aftershocks, etc. urces to the upland [4/15] —Addiand [-4/18] —Planning to install a cture under the bottom of the Unitrout by the end of July. and evaluation for each unit in profice set [5/17] A:—1850, B:—2150 Reading mostly steady**	Severely damaged e site n 4/26-] Dispersion to the R/Bs and ass [4/10-] Designing ition of redundant water injection line temporary tide barriers [by the end ait 4 SFP in progress. Steel pillars in agress. Seismic safety confirmed for A:-1850, B:-2250 Reading mostly steady**	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] stalled [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima- np/f1/index3-e.html	
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sunami, Radi	reinforcement, etc. atmosphere / so	measures D	to the outside of the f R/B integrity Fival Type Type Type Type Type Type Type Type	facilities (ugh June) bitor pris over ugh June) ast tsunami ntation of each unit nielding (MPa) (MPa) vater nozzle b) e bottom	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-construction of the cover to be started on 6/27 Enhancement of countermeasures -Transferring emergency power so setting fire trucks etc. to the uple work for installing supporting struction completed by filling concrete and genoundness of structure analysis and Pipe work completed, pumping vehalping with the second of	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. urces to the upland [4/15] —Additionald [-4/18] —Planning to install a cture under the bottom of the Uniter of the uniterior by the end of July. and evaluation for each unit in profice set [5/17] A:-1850, B:-2150 Reading mostly steady** A:0.009, B:- Reading mostly steady** 109.7 Reading mostly steady 119.5	Severely damaged e site n 4/26-] Dispersion to the R/Bs and site [4/10-] Designing ition of redundant water injection line temporary tide barriers [by the end in the AFP in progress. Steel pillars in agress. Seismic safety confirmed for [A:-1850_B:-2250] Reading mostly steady** A:-0.147_B:-0.106 Reading mostly steady** 154.6 Slightly increased 129.1	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] stalled [6/7–6/20]. Work to be	manufacture and the state of the calibrated. Unit 1 Ch.A does desirable of the calibrated. [6/22-]	
sunami, Radi	reinforcement, etc. atmosphere / so	measures D	to the outside of the f R/B integrity From the field of STEP 1 (April through of STEP 1 (April through of the field of STEP 1 (April through of S	facilities (ugh June) bitor pris over ugh June) ast tsunami ntation of each unit nielding (MPa) vater nozzle be bottom 7 07:30] (MPa)	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive vents. Dispersion to the outside of building Removal of debris using remote—consider of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power so—Setting fire trucks etc. to the uplation—Work for installing supporting structure completed by filling concrete and genous personal services of structure analysis are pipe work completed, pumping vento at the lower end of gauge, B:—1700**, Reading mostly steady A: 0.032, B:—, Measured with temporary pressure indicator [6/4–] 115.9 Reading mostly steady 100.8 Reading mostly steady 0.1390	Partly opened e materials in the facilities and the gs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. urces to the upland [4/15] -Addiand [-4/18] -Planning to install a cture under the bottom of the Uniquot by the end of July. and evaluation for each unit in profice set [5/17] A:-1850, B:-2150 Reading mostly steady** A:0.009, B:- Reading mostly steady** 109.7 Reading mostly steady 119.5 Reading mostly steady 0.005	Severely damaged e site n 4/26-] Dispersion to the R/Bs and site [4/10-] Designing Ition of redundant water injection line at temporary tide barriers [by the end sit 4 SFP in progress. Steel pillars in agress. Seismic safety confirmed for [A:-1850_B:-2250] Reading mostly steady** A:-0.147_B:-0.106 Reading mostly steady** 154.6 Slightly increased 129.1 Slightly fluctuate 0.1008	Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] stalled [6/7–6/20]. Work to be Unit 1 and 4 [5/28] — — — —	m"A", "B" shows the group of the redundant instruments Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11] Unit 2 Ch.A now bein caribrated. [6/22–] Primary parameters' trend is available at JANTI's HP;	
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*1 TEPCO's analysis [announced on 5/15,23] *2 TEPCO judged that most spent fuels were not damaged in the Unit 2 and 4 SFPs based on the detailed analysis of the radioactive materials in the pool water. [5/31]

*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

[Significance judged by JAIF] Low: :High :Severe (Need immediate action)

[Progress of countermeasures] : Completed :Under construction :To be done (including studying and manufacturing)