Basi forma			Unit 1	Unit 2	Unit 3	Unit 4	Notes
		Type of plant	BWR-3	BWR-4	BWR-4	BWR-4	110003
	ation	Electric / Thermal power output Operation status	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 Outage	
	tatus	No. of nuclear fuels loaded in the reactor	400	548	548	0	
nen h the	-	No. of sperit fuels stored in the SFF	292	587	514 o the earthquake	1331	
arthqu		External power supply Emergency power supply	EDGs automatically st		r was lost but stopped later when	tsunami hit the plants.	
T	-	Core and fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	Damaged (core melt*1)	No fuels loaded	
	Status	RPV structural integrity	Limited damage and leakage	Unknown	Unknown	No damage	
		PCV structural integrity Core cooling	Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	No damage Not required	
Reactor cooling		Goal of STEP 1 (April through June)	Stable cooling (circulating injectio		iter) Tinjecting freshwater into the reactor		
		Cooling by minimum injection rate	Injecting freshwater into the reactor via feed water line at <u>5.2</u> m3/h	Injecting freshwater into the reactor via feed water line at 5.0m3/h	via feed water line at 11.2-	_	Total injection flow: 21.4-21.5m3/h[6/14 11:00]
	nres	Establishment of	Work for injection line in progress	Work for injection line in progress	Work for injection line in progress	_	
tor	asur	circulating injection cooling Nitrogen gas injection into PCV	Injection continued [4/6-]	[4/9-] Work for injection line in progress	[4/16-] Work for injection line in progress	_	
Reac	mea	Flooding of PCV after sealing leaks	Studying	[4/16-] Studying	[4/16-] Studying	_	
		Securing heat exchange function	Work for secondary-loop piping	Construction work to be started after	Construction work to be started after		
	Φ		in progress (5/13-) High radiation circumstance is ha	improving the work environment	improving the work environment	_	
	leng	Improving work environment	such as removing radioactive debris, radiation monitoring is underway in each unit. TEPCO has begun running air-filtering equipment at the Unit2 R/B to remove airborne radioactive materials.[6/11]				
	Challenge						
SFP cooling	Statu	Fuel integrity in SFP	Unknown	Unknown	Unknown	No severe damage suspected*2	
	Š		Not functional	Not functional	Not functional	Not functional	
	es	Goal of STEP 1 (April through June)	Stable cooling	Switching from freshwater injection		Spraying freshwater by pump truck	Injecting/Spraying corrosion
	sure	Reliability improvement in injection operation	Injecting freshwater via SFP coolant clean up line	via SFP coolant clean up line to	Injecting freshwater via SFP coolant clean up line	Preparing system for cooling in a	inhibitor, hydrazine (H2NNH2), w freshwater [5/9-]
S	measur	Circulation cooling with Hx	Planned	circulation cooling In operation	Planned	stable manner Planned	irestiwater [0/ 9]
				<u> </u>		<u> </u>	
	Status		High level radioactive wastewater	is accumulating in the R/B, T/B	and RW/B of each unit. (about 92,	,000m3 [5/31])	
	(Goal of STEP 1 (April through June)	Securing storage place of high lev		the DMD (-t	10.0002\ MM/DTD/-+	
countermeasures taken			-Waterproof check of Centralized Radiation Waste Treatment Facility, PMB (storage capacity: approx. 10,000m3) and MWRTB(storage capacity: approx. 4,800m3) completed -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). Additional capacity to be installed at 20,000m3/month from the end of June.				PMB: Process Main Buildin MWRTB: Miscellaneous So Waste Volume Reduction
		Securing storage place					
	es						
_				it 2: Concrete tunnel => PMB (4/19-5/26, approx. 9,600m3, Transfer suspended and then resumed after revising the storage limit			
water	asures	Transfer of radioactive waste water	evel of the building [6/4-])				
	45		-Unit 3: T/B => MWRTB (5/17-5/25, approx. 3,700m3), T/B => Unit 3 main steam condenser [6/5-6/9], T/B => PMB [6/11-] -Water treatment system for recycling water was installed. <u>Test-run started on June 14th, aiming for starting operation on June 17.</u> (capacity: 1,200m3/day)				
Accumulated							
cum		Installation of water process facility			city:480m3/day in the late June, t	then increased step by step) to	
Ac		Preventing contamination of the sea,	reuse the water for reactor inject -Silt fences installed -Seawater		es into full-scale operation. [6/13	3]	
		etc.	a, -Silt fences installedSeawater circulatory purification system goes into full-scale operation. [6/13] -Blocking the concrete tunnels outside the T/Bs completed [6/10] The risk of leakage of the high level radioactive wastewater accumulating in the Unit 2 and 3 T/Bs and concrete tunnels is increasing as the water level in the receiving facility was getting close to its storage limit. It has been decided to use Unit 2 and 3 main steam condensers as a receiving tank while revising the storage limit of the PMB (total increased capacity: approx. 4,300m3). Further revision of the storage limit of the facility (additional capacity: approx. 2,700m3) is under consideration. Storing and processing low level radio active wastewater 2,200tons of tanks installed. Approx. 16,000tons of tanks to be installed by the beginning of June. 12,000 tons of receiving capacity				
	ge						
	Challenge	Preventing overflow of high level radioactive waste water					
		Goal of STEP 1 (April through June)					
	meası	Increasing storage capacity	to be secured by the end of June		tailed by the beginning or earle.	2,000 tons of receiving capacity	
_ r	Statu	Radioactive materials in the ground				rground water collected and	
rgr			controlled in the facility, and the	vell water in the Fukushima Daiicl			
י טיי	> ∵	Goal of STEP 1 (April through June)	Preventing contaminated undergro	ound water from spreading to the			
Undergro	und w	Goal of STEP 1 (April through June) Mitigation of groundwater contamination			sea	anced storing and processing plan.	
			Restoring subdrain pumps [the mi	ddle of June]. Planning subdrain r	sea nanagement according to the enha		Survey map on the site:
n the	atus		Restoring subdrain pumps [the mi	ddle of June]. Planning subdrain r	sea		
n the	atus	Scattering of radioactive materials to the outside of the facilities R/B integrity	Restoring subdrain pumps [the mi Radioactive materials and radioac events. Severely damaged	ddle of June]. Planning subdrain r tively contaminated debris scatte Partly opened	sea management according to the enhance red due to the hydrogen explosion Severely damaged		Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
n the	atus	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June)	Restoring subdrain pumps [the mi Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti	ddle of June]. Planning subdrain r tively contaminated debris scatte Partly opened ve materials in the facilities and t	sea management according to the enhance red due to the hydrogen explosion Severely damaged he site	at Unit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
materials in the	Status	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor	Restoring subdrain pumps [the mi Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi	ddle of June]. Planning subdrain r tively contaminated debris scatte Partly opened ve materials in the facilities and t ngs in progress [full operation fro	sea management according to the enhance red due to the hydrogen explosion Severely damaged he site m 4/26-] Dispersion to the R/Bs	at Unit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
materials in the	Status	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor	Restoring subdrain pumps [the mi Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress	ddle of June]. Planning subdrain r tively contaminated debris scatte Partly opened ve materials in the facilities and t ngs in progress [full operation fro	sea management according to the enhance red due to the hydrogen explosion Severely damaged he site m 4/26-] Dispersion to the R/Bs	at Unit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
materials in the	atus	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor	Restoring subdrain pumps [the mi Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13—]	ddle of June]. Planning subdrain r tively contaminated debris scatte Partly opened ve materials in the facilities and t ngs in progress [full operation fro	sea management according to the enhance red due to the hydrogen explosion Severely damaged he site m 4/26-] Dispersion to the R/Bs	at Unit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
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Radioactive materials in the	measures Status	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through June)	Restoring subdrain pumps [the mi Radioactive materials and radioactivents. Severely damaged Preventing scattering of radioacti Dispersion to the outside of building Removal of debris using remote-of Preparation work in progress [5/13-] Installation work of the cover to be a severely and the cover to be removed on 6/97 Enhancement of countermeasures -Transferring emergency power s	Partly opened Ye materials in the facilities and to the service on the service of the service o	sea management according to the enhance of the hydrogen explosion Severely damaged he site m 4/26-] Dispersion to the R/Bs ess [4/10-] Designing dition of redundant water injection	Severely damaged and T/Bs [5/27-] Planning line [-4/15]	Survey map on the site: http://www.tepco.co.jp/en/nu/fuku
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I sunami, Radioactive materials in the stronger of soil	measures Status	Scattering of radioactive materials to the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through June) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [6/14 11:00] Rev temperature at feedwater nozzle (°C)[6/14 11:00]	Restoring subdrain pumps [the mi Radioactive materials and radioactivents. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi Removal of debris using remote—of Preparation work in progress [5/13—] Installation work of the cover to be 15/13—] Enhancement of countermeasures —Transferring emergency powers —Setting fire trucks etc. to the up—Carry—in and setup of the suppo—Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700. Reading mostly steady A: 0.027, B:—, Measured with temporary pressure indicator [6/4—] 112.2 Reading mostly steady**	Partly opened Partly	sea management according to the enhance of the the hydrogen explosion Severely damaged he site m 4/26-] Dispersion to the R/Bs ess [4/10-] Designing dition of redundant water injection a temporary tide barriers [by the of the Unit 4 SFP started. [6/7] rogress. Seismic safety confirmed A:-1850, B:-2250 Reading mostly steady A:-0.134, B:-0.100 Reading mostly steady** 137.4 Upward trend ending**	Severely damaged and T/Bs [5/27-] Planning I line [-4/15] end of June]	Survey map on the site: http://www.tepco.co.jp/en/nu/fukuma-np/f1/index3-e.html "A", "B" shows the group 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;
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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



