	Basic		Type of plant	Unit 1 BWR-3	Unit 2 BWR-4	Unit 3 BWR-4	Unit 4 BWR-4	Notes
information			Electric / Thermal power output Operation status	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 Outage	
Plant status when hit by the earthquake			No. of nuclear fuels loaded in the reactor No. of spent fuels stored in the SFP	400	548 587	548 514	0	
		-	External power supply	292	Stopped due to	the earthquake	1331	
			Emergency power supply Core and fuel integrity	EDGs automatically s Damaged (core melt*1)	tarted up when the external power Damaged (core melt*1)	r was lost but stopped later when to Damaged (core melt*1)	sunami hit the plants. No fuels loaded	
		Challenge measures Status	RPV structural integrity PCV structural integrity	Limited damage and leakage Damage and leakage suspected	Unknown Damage and leakage suspected	Unknown Damage and leakage suspected	No damage No damage	
	6.0		Core cooling	Not functional	Not functional	Not functional	Not required	
			Goal of STEP 1 (April through June) Cooling by minimum injection rate	Injecting freshwater into the reactor	n cooling reusing accumulated wat Injecting freshwater into the reactor	Injecting freshwater into the reactor		Total injection flow: 21.3m3/h
	cooling		Establishment of	via feed water line at 5.1m3/h Work for injection line in progress	via feed water line at 5.0m3/h Work for injection line in progress	wia feed water line at 11.2m3/h Work for injection line in progress	_	[<u>6/9</u>]
	Reactor c		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	_	
			Flooding of PCV after sealing leaks	Studying	[4/16-] Studying	[4/16-] Studying	_	
			Securing heat exchange function	Work for secondary-loop piping in progress (5/13-)	Construction work to be started after improving the work environment	Construction work to be started after improving the work environment	_	
			Improving work environment	as removing radioactive debris, ra	npering the work to restore reacto diation monitoring is underway in e	each unit. TEPCO announced its		
			improving work crivironinent		ir in the Unit $2\ R/B$ to reduce its rathe building, which also hampers th		_	
=	b 0	State	Fuel integrity in SFP SFP cooling	Unknown Not functional	Unknown Not functional	Unknown Not functional	No severe damage suspected*2 Not functional	
	cooling	G	Goal of STEP 1 (April through June)	Stable cooling		NOT TURBUOTIAL		
en	SFP c	sures	Reliability improvement in injection operation	Injecting freshwater via SFP coolant clean up line	Switching from freshwater injection via SFP coolant clean up line to	Injecting freshwater via SFP coolant clean up line	Spraying freshwater by pump truck Starting work for injection via	Injecting/Spraying corrosion inhibitor, hydrazine (H2NNH2), with
s taken	S	measul	Circulation cooling with Hx	Planned	circulation cooling In operation	Planned	SFP coolant cooling line Planned	freshwater [5/9-]
asure		Status	Increase and accumulation of	High level radioactive wastewater	is accumulating in the R/B, T/B a	and RW/B of each unit. (about 92,0	00m3 [5/31])	
erme	als in Undergro- Accumulated water		radioactively contaminated water Goal of STEP 1 (April through June)	Securing storage place of high lev	el radioactive wastewater			
e progress of countermeasures		sures	Securing storage place Transfer of radioactive waste water	5/31). Additional capacity to be installed at 20,000m3/month from the end of June. Waste Vo				PMB: Process Main Building MWRTB: Miscellaneous Solid Waste Volume Reduction Treatment Building
of the plant and the		mea	Installation of water process facility	condenser [6/5- <u>6/9</u>] -Work for installing the water produced radioal	cessing facility in progress. Water ctive water to be installed (capaci	processing to be started on June ity: 480m3/day in the late June, the	15th (capacity:1,200m3/day)	
the pl			Preventing contamination of the sea,	reuse the water for reactor inject -Silt fences installedWorking o		ry purification system [5/30-]. Te	st operation conducted [6/9]	
			etc.	-Blocking the concrete tunnels or	utside the T/Bs			
Current status			Preventing overflow of 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. Goal of STEP 1 (April through June) Storing and processing low level radio active wastewater					
Ö		Goal of STEP 1 (April through June) 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 to be secured by the end of June.						
=		7	Radioactive materials in the ground	Radioactive iodine, I-131, and cesium, Cs-134, 137, were detected from the subdrain, underground water collected and controlled in the				
		ası Si	Goal of STEP 1 (April through June)	facility, and the well water in the I Preventing contaminated undergro		sea		
=		meası	Mitigation of groundwater contamination			nanagement according to the enha		
				Dedicactive metarials and redicac	tively contaminated debris scatter			0 11 11
	als ii soil	atus	Scattering of radioactive materials to the outside of the facilities	events.		ed due to the hydrogen explosion a	at Unit 1 and 3 R/Bs and other	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushi ma-np/f1/index3-e.html
	teris e /	St	the outside of the facilities R/B integrity	events. Severely damaged	Partly opened	Severely damaged	Severely damaged	http://www.tepco.co.jp/en/nu/fukushi
	materia ohere /	St	the outside of the facilities	events. Severely damaged Preventing scattering of radioacti	ve materials in the facilities and th	Severely damaged	Severely damaged	http://www.tepco.co.jp/en/nu/fukushi
	materia ohere /	St	the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris	events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi	ve materials in the facilities and th	Severely damaged e site n 4/26-] Dispersion to the R/Bs a	Severely damaged	http://www.tepco.co.jp/en/nu/fukushi
F	Radioactive materiathe Authoriate Radioactive Material Radioactive Mater	measures St	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	events. Severely damaged Preventing scattering of radioactic Dispersion to the outside of buildid Removal of debris using remote—c Under construction [5/13—]	ve materials in the facilities and th ngs in progress [full operation fron controlled heavy machine in progres —	Severely damaged e site n 4/26-] Dispersion to the R/Bs a	Severely damaged	http://www.tepco.co.jp/en/nu/fukushi
F	Radioactive materiathe Authoriate Radioactive Material Radioactive Mater	measures St	the outside of the facilities R/B integrity Goal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris	events. Severely damaged Preventing scattering of radioactic Dispersion to the outside of buildid Removal of debris using remote—of Under construction [5/13—] Enhancement of countermeasures —Transferring emergency power signs.	ve materials in the facilities and the ngs in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] -Add	Severely damaged e site n 4/26-] Dispersion to the R/Bs a ss [4/10-] Designing ition of redundant water injection I	Severely damaged and T/Bs [5/27–] Planning ine [-4/15]	http://www.tepco.co.jp/en/nu/fukushi
F	Radioactive materiathe Authoriate Radioactive Material Radioactive Mater	measures St	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	events. Severely damaged Preventing scattering of radioactir Dispersion to the outside of buildi Removal of debris using remote—c Under construction [5/13—] Enhancement of countermeasures —Transferring emergency power single of the support	ve materials in the facilities and the ngs in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install arting structure under the bottom of	Severely damaged e site n 4/26-] Dispersion to the R/Bs ass [4/10-] Designing ition of redundant water injection I a temporary tide barriers [by the enf the Unit 4 SFP started. [6/7]	Severely damaged and T/Bs [5/27–] Planning ine [-4/15] and of June]	http://www.tepco.co.jp/en/nu/fukushi
F	materia ohere /	measures St	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	events. Severely damaged Preventing scattering of radioactir Dispersion to the outside of buildi Removal of debris using remote—c Under construction [5/13—] Enhancement of countermeasures —Transferring emergency power single of the support	ve materials in the facilities and the ngs in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install arting structure under the bottom of and evaluation for each unit in progress.	Severely damaged e site n 4/26-] Dispersion to the R/Bs a ss [4/10-] Designing ition of redundant water injection I a temporary tide barriers [by the en	Severely damaged and T/Bs [5/27–] Planning ine [-4/15] and of June]	http://www.tepco.co.jp/en/nu/fukushi
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F	Radioactive materiathe Authoriate Radioactive Material Radioactive Mater	measures D measures St.	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) [6/9 11:00] Reactor pressure (MPa) [6/9 11:00] RPV temperature at feedwater nozzle (°C) [6/9 11:00] RPV temperature at the bottom	Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—outside using remote—outside of debris using remote—outside using remote—outside of debris using remote—outside using remote—outside using remote—outside using remote—outside using fire trucks etc. to the up—outside us	ve materials in the facilities and the large in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install a rting structure under the bottom of and evaluation for each unit in promicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.016, B:=0.009 Reading mostly steady** 108.4 Reading mostly steady 107.4	Severely damaged e site n 4/26-] Dispersion to the R/Bs ass [4/10-] Designing ition of redundant water injection I a temporary tide barriers [by the enf the Unit 4 SFP started. [6/7] agress. Seismic safety confirmed for Reading mostly steady A:-0.128, B:-0.104 Reading mostly steady** 149.7 Increasing** 186.0	Severely damaged and T/Bs [5/27–] Planning ine [-4/15] and of June]	http://www.tepco.co.jp/en/nu/fukushima-np/f1/index3-e.html "A", "B" shows the group of 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
F	Sunami, Radioactive materia Resertor Resertor Peactor	measures St.	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) [6/9 11:00] Reactor pressure (MPa) [6/9 11:00] RPV temperature at feedwater nozzle (°C) [6/9 11:00] RPV temperature at the bottom of the vessel (°C) [6/9 11:00] Pressure of drywell (MPa)	Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—culture construction [5/13—] Enhancement of countermeasures —Transferring emergency power substitutes—Setting fire trucks etc. to the up—Carry—in and setup of the suppo—Soundness of structure analysis Pipe work completed, pumping velue A: Below the lower end of gauge, B:—1750, Reading mostly steady A: 0.027, B:—, Measured with temporary pressure indicator [6/4—] 115.6 Reading mostly steady** 99.1 Reading mostly steady 0.1319	ve materials in the facilities and the large in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install arting structure under the bottom of and evaluation for each unit in promicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.016, B:=0.009 Reading mostly steady** 108.4 Reading mostly steady 107.4 Instrument failure 0.020	Severely damaged e site n 4/26-] Dispersion to the R/Bs as [4/10-] Designing ition of redundant water injection I a temporary tide barriers [by the enf the Unit 4 SFP started. [6/7] agress. Seismic safety confirmed for Reading mostly steady A:-0.128, B:-0.104 Reading mostly steady** 149.7 Increasing** 186.0 Increasing 0.1005	Severely damaged and T/Bs [5/27–] Planning ine [-4/15] and of June]	http://www.tepco.co.jp/en/nu/fukushi ma-np/f1/index3-e.html "A", "B" shows the group of 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
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Plant parameters	I sunami, Radioactive materia Radioactiv	measures St.	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) [6/9 11:00] Reactor pressure (MPa) [6/9 11:00] RPV temperature at feedwater nozzle (°C) [6/9 11:00] RPV temperature at the bottom of the vessel (°C) [6/9 11:00] Pressure of drywell (MPa) [6/9 11:00] Pressure of suppression pool (MPa) [6/9 11:00] Water temperature of SFP R/B basement Radioactivity*3 (Dose at water surface) RW/B basement Radioactivity*3 Concrete tunnel outside of T/B (Dose at water surface) Total volume Total volume	Severely damaged Preventing scattering of radioactinospersion to the outside of building Removal of debris using remote—outline Under construction [5/13—] Enhancement of countermeasures—Transferring emergency power s—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:—1750. Reading mostly steady—A:0.027, B:—, Measured with temporary pressure indicator [6/4—] 115.6 Reading mostly steady** 99.1 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 1.115 Reading mostly steady 1.115 Reading mostly steady 0.115 Reading mostly steady 1.115 Reading mostly steady 1.115 Reading mostly steady 0.115 Reading mostly steady 1.115 Reading mostly steady 1.15 Reading mostly	ve materials in the facilities and the large in progress [full operation from controlled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] —Add land [-4/18] —Planning to install a rting structure under the bottom of and evaluation for each unit in promicle set [5/17] A:-1500, B:-2100 Reading mostly steady A:-0.016, B:-0.009 Reading mostly steady A:-0.016, B:-0.009 Reading mostly steady 107.4 Instrument failure 0.020 Decreasing Below the lower end of gauge Instrument failure 32°C [6/9 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 11,400m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/hJzl_E[3/28]) 2,400m3[5/31] 1.9E+7Bq/cm3 4,800m3[5/31] 1.1E+7Bq/cm3 (>1,000mSv/h [3/27]) m3 including the wastewater transethe NPS border (Monitoring Post) s, Pu, Am Cm and Sr) has been deferted the enhanced [4/16-].	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[6/7] agress. Seismic safety confirmed for the Unit 4 S	Planning Planning ine [-4/15] Ind of June] or Unit 1 and 4 [5/28] ———————————————————————————————————	http://www.tepco.cojp/en/nu/fukushi ma-np/f1/index3-e.html A", "B" shows the group of 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 www.gengikyo.jp/englis h/shokai/special_4.html". **Continuously monitoring the status Air dose rate: http://www.tepco.cojp/en/nu/fukushima-np/f1/index-e.html Air, seawater, underground water

*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

[Significance judged by JAIF] Low: :High Severe (Need immediate action) [Progress of countermeasures] : Completed :Under construction :To be done (including studying and manufacturing)