Ва				11 5 4	11 5 6	11 5 6	11.5.4	AT .
	sic		Type of plant	Unit 1 BWR-3	Unit 2 BWR-4	Unit 3 BWR-4	Unit 4 BWR-4	Notes
inform			Electric / Thermal power output Operation status	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/ <u>2381</u> Outage	
Plant : when	hit b	L.,	No. of nuclear fuels loaded in the reactor No. of spent fuels stored in the SFP	400	548 587	548 514	0 1331	
	the thquake		External power supply	===	Stopped due to	the earthquake		
			Emergency power supply Core and fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	r was lost but stopped later when to Damaged (core melt*1)	Sunami hit the plants. No fuels loaded	
		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	
			Core cooling	Not functional	Not functional	Not functional	Not required	
		G	ioal of STEP 1 (April through June)	Stable cooling (circulating injection	n cooling reusing accumulated wat Injecting freshwater into the reactor	Injecting freshwater into the reactor	_	Decreasing the injection rate to
gailo	guillig		Cooling by minimum injection rate	via feed water line at 3.5m3/h	via feed water line at 3.5m3/h	via feed water line at 9.4-9.5 m3/h	_	prevent the overflow of the accumulated water in the facilities
7	5	sares	Establishment of circulating injection cooling	(Circulation to be started f	Injection line established ollowing the radioactive water process	facility starts its operation)	_	
+269	reactor	meas	Nitrogen gas injection into PCV	Injection continued [4/6-]	Work for injection line in progress [4/16-]	Work for injection line in progress [4/16-]	_	
"			Flooding of PCV after sealing leaks	Studying Work for secondary-loop piping	Studying Construction work to be started after	Studying Construction work to be started after	_	
		e e	Securing heat exchange function	in progress (5/13-)	improving the work environment g the work to restore reactor cooling. I	improving the work environment	_	
		Challenge	Improving work environment	radioactive debris, radiation monitoring i	is underway in each unit. The doors of	he Unit 2 R/B, where high humidity has	_	
_	_		Fuel integrity in SFP	materials in the building. After confirmin	_		No severe damage suspected*2	
8	ω <u> </u>	Status	SFP cooling	Not functional	Not functional	Not functional	Not functional	
pailoog			Reliability improvement	Stable cooling Injecting freshwater	Switching from freshwater injection	Injecting freshwater	Injecting freshwater via alternative	Injecting corrector inhibitor hydroxin
_		measures	in injection operation	via SFP coolant clean up line	via SFP coolant clean up line to circulation cooling	via SFP coolant clean up line	injection line, Preparing system for cooling in a stable manner	Injecting corrosion inhibitor, hydrazin (H2NNH2), with freshwater [5/9-]
۲	9	mea	Circulation cooling with Hx	Planned	In operation	Planned (Construction to be	Planned	
= asure	+	sn	Increase and accumulation of			started in late June)		
erme.		Status	radioactively contaminated water toal of STEP 1 (April through June)			nd RW/B of each unit. (about 92,000	um3 [5/31])	
countermeasures		G	Car of GTELL (April dirough June)	Securing storage place of high level radioactive wastewater -Storage capacity of 14800m3 (10,000m3 + 4,800m3) for highly radioactive wastewater are secured by using the Centralized Radiation				
of			Securing storage place	Waste Treatment Facility as water -Underground tank for high level re	PMB: Process Main Building MWRTB: Miscellaneous Solid			
progress	Lec	S		-Storage tanks to receive process Additional capacity to be installed		wastewater with the capacity of apof June.	prox. 13,000m3 installed (-5/31).	Waste Volume Reduction
prog	ag warer	asures	Transfer of radioactive waste water				Treatment Facility since April 19.	Treatment Building
and the	Accumulated	mea		-Highly radioactive wastewater tre	eatment system for recycling wate	started operation on June 17, and	stopped for trouble about 5 hours	:
nt an			Installation of water process facility	later. Test operation in progress treactor cooling after desalination.			i the system is to be reused for	
ם	Ĭ		Preventing contamination of the sea etc.		irculatory purification system goestside the T/Bs completed [6/10],			
of the	ı	llenge	Preventing overflow of high level	Highly radioactive wastewater trea	<u> </u>	in stable and effective manner to pr	revent wastewater accumulated in	1
status	H	ੂੰ Go	radioactive waste water ioal of STEP 1 (April through June)	unit-2 and 3 overflowing. Storing and processing low level ra				
nt sta		neası	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.				
Current		Statum	Radioactive materials in the ground				ound water collected and	
7			water Goal of STEP 1 (April through June)	controlled in the facility, and the warm				
Undergro	wat	S			water called "subdrain" is to be r	estored in the middle of June. Sub	drain is to be treated in	
ηN		m	Mitigation of groundwater contamination	accordance with the contaminated	l water management plan.		diam is to be treated in	
		mea	Mitigation of groundwater contamination	accordance with the contaminated Construction of wall for undergrou			drain is to be treated in	
the	_	mea	Scattering of radioactive materials	Construction of wall for undergrou Radioactive materials and radioact	nd water isolation is under conside			
.⊑		Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity	Construction of wall for undergrou	nd water isolation is under conside	eration.		
.⊑		Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June)	Construction of wall for underground Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive radioactive radioactive results.	Partly opened ye materials in the facilities and the	eration. ed due to the hydrogen explosion at Severely damaged e site	Unit 1 and 3 R/Bs and other Severely damaged	http://www.tepco.co.jp/en/nu/fukushima
materials in	ohere / soil	Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity	Construction of wall for underground Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive radioactive radioactive results.	Partly opened ye materials in the facilities and the	seration. Sed due to the hydrogen explosion at Severely damaged e site 4/26-] Dispersion to the R/Bs an	Unit 1 and 3 R/Bs and other Severely damaged	http://www.tepco.co.jp/en/nu/fukushima
materials in	ohere / soil	Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris	Construction of wall for undergrous Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—construction version version progress [5/13—]	Partly opened ye materials in the facilities and the	Severely damaged estite 4/26-] Dispersion to the R/Bs and sets [4/10-]	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27-]	http://www.tepco.co.jp/en/nu/fukushima
naterials in	ohere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover	Radioactive materials and radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—control of the coverto be started on 6/27	Partly opened ve materials in the facilities and the negs in progress [full operation from ontrolled heavy machine in progress —	seration. Sed due to the hydrogen explosion at Severely damaged e site 4/26-] Dispersion to the R/Bs an	Unit 1 and 3 R/Bs and other Severely damaged	http://www.tepco.co.jp/en/nu/fukushima
Radioactive materials in	etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity coal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover coal of STEP 1 (April through June)	Construction of wall for undergrous Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—construction Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures	Partly opened ve materials in the facilities and the negs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc.	Severely damaged estite 4/26-] Dispersion to the R/Bs and sets [4/10-]	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning	http://www.tepco.co.jp/en/nu/fukushima
Radioactive materials in	etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity coal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover coal of STEP 1 (April through June) Countermeasures against tsunami	Radioactive materials and radioactive materials and radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive dispersion to the outside of building Removal of debris using remote—construction work in progress [5/13—1] Installation work of the cover to be started on 6/27 Enhancement of countermeasuress—Transferring emergency power some Setting fire trucks etc. to the upless.	Partly opened ve materials in the facilities and the negs in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] -Addi and [-4/18] -Planning to install a	Severely damaged estite 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] l of June]	http://www.tepco.co.jp/en/nu/fukushima
Radioactive materials in	etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity coal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover coal of STEP 1 (April through June)	Radioactive materials and radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive dispersion to the outside of building Removal of debris using remote—construction version versi	Partly opened ve materials in the facilities and the result of the resu	Severely damaged e site 4/26-] Dispersion to the R/Bs and is [4/10-] Designing tion of redundant water injection limitemporary tide barriers [by the endit 4 SFP in progress. Steel pillars in	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima
Radioactive materials in	atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity coal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover coal of STEP 1 (April through June) Countermeasures against tsunami Planning and implementation of	Radioactive materials and radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive dispersion to the outside of building Removal of debris using remote—construction version versi	Partly opened re materials in the facilities and the region of the progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] —Addi and [-4/18] —Planning to install a cucture under the bottom of the Ungrout by the end of July. and evaluation for each unit in progress.	Severely damaged estite 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima np/f1/index3-e.html
Radioactive materials in	etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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)	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote-concept Preparation work in progress [5/13–] Installation work of the cover to be started on 6/27 Enhancement of countermeasures —Transferring emergency power some —Setting fire trucks etc. to the uple —Work for installing supporting structure analysis —Soundness of structure analysis —Pipe work completed, pumping vehalibre —A: Below the lower end of gauge,	Partly opened re materials in the facilities and the region of the progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. ources to the upland [4/15] —Addi and [-4/18] —Planning to install a cucture under the bottom of the Ungrout by the end of July. and evaluation for each unit in progress.	Severely damaged e site 4/26-] Dispersion to the R/Bs and is [4/10-] Designing tion of redundant water injection limitemporary tide barriers [by the endit 4 SFP in progress. Steel pillars in	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushima np/f1/index3-e.html A., B. Siriows the group of the
Radioactive materials in	reinforcement, etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa)	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote—c. Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power scatting fire trucks etc. to the upl—Work for installing supporting structure analysis—Soundness of structure analysis—Pipe work completed, pumping verification—A:Below the lower end of gauge, B:—1600**, Reading mostly steady—A:0.033, B:—, Measured with	Partly opened re materials in the facilities and the region on trolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] —Addi and [-4/18] —Planning to install a ucture under the bottom of the Ungrout by the end of July. and evaluation for each unit in proicle set [5/17] A:being calibrated, B: 2150 Reading mostly steady** A: -0.018, B: -0.005	Severely damaged e site 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for A:—1850_B:—2100_Reading mostly steady** A:—0.151_B:—0.100	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html A - 5 snows trie group of tredundant instruments Reactor water level monitors to be calibrated. Unit 1 Ch.A
Radioactive materials in	reinforcement, etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00] RPV temperature at feedwater nozzle	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote—c. Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power scatting fire trucks etc. to the upl—Work for installing supporting structure analysis—Soundness of structure analysis—Pipe work completed, pumping verification of the control of gauge, B:—1600**, Reading mostly steady—A:0.033, B:—, Measured with temporary pressure indicator [6/4—]	Partly opened re materials in the facilities and the large in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] -Addi and [-4/18] -Planning to install a lacture under the bottom of the Unigrout by the end of July. and evaluation for each unit in promicle set [5/17] A:being calibrated, B:-2150 Reading mostly steady** A:-0.018, B:-0.005 Reading mostly steady** 107.9	Severely damaged e site 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for A:-1850, B:-2100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** 149.5	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	Http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html ■ A T B snows 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 being caribrated.[6/22-]
Radioactive materials in	etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00]	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote—c. Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power sc—Setting fire trucks etc. to the upl—Work for installing supporting strucompleted by filling concrete and s—Soundness of structure analysis Pipe work completed, pumping veh—A:Below the lower end of gauge, B:—1600**. Reading mostly steady A:0.033, B:—, Measured with temporary pressure indicator [6/4—]	Partly opened re materials in the facilities and the region on trolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] —Addi and [-4/18] —Planning to install a ucture under the bottom of the Ungrout by the end of July. A: being calibrated, B: -2150 Reading mostly steady** A: -0.018, B: -0.005 Reading mostly steady**	Severely damaged se site 4/26-] Dispersion to the R/Bs and ses [4/10-] Designing tion of redundant water injection linetemporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for A:-1850, B:-2100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady**	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html A
Radioactive materials in	reinforcement, etc. atmosphere / soil	measures Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00] RPV temperature at feedwater nozzle (°C)[6/23 11:00]	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote—c. Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power scasetting fire trucks etc. to the uple—Work for installing supporting structure analysis—Soundness of structure analysis—Pipe work completed, pumping vertices and scale and sc	Partly opened re materials in the facilities and the large in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] -Addi and [-4/18] -Planning to install a lacture under the bottom of the Unigrout by the end of July. and evaluation for each unit in product in the product of the land of land (-4/18) -10.018, and (-2/15) Reading mostly steady** A: -0.018, B: -0.005 Reading mostly steady Reading mostly steady 107.9 Reading mostly steady	Severely damaged esite 4/26-] Dispersion to the R/Bs and sis [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end sit 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for A:-1850, B:-2100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** 149.5 Slightly increased	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html ### 15-\$110ws trie group of of redundant instruments ### Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11] Unit 2 Ch.A now being caribrated.[6/22-] #### Reactor water level shows the length of the fuel not covered with water ####################################
Tsunami, Radioactive materials in	Reactor reinforcement, etc.	measures D measures D Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Rev temperature at feedwater nozzle (°C)[6/23 11:00] RPV temperature at the bottom of the vessel (°C)[6/23 11:00] Pressure of drywell (MPa) [6/23 11:00]	Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—c. Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power scatting fire trucks etc. to the uple—Work for installing supporting structure analysis—Soundness of structure analysis—Pipe work completed, pumping vehalibed as the lower end of gauge, B:—1600**, Reading mostly steady A:0.033, B:—, Measured with temporary pressure indicator [6/4—] 118.2 Reading mostly steady 0.1379 Reading mostly steady	Partly opened re materials in the facilities and the large in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. burces to the upland [4/15] —Addi and [-4/18] —Planning to install a lucture under the bottom of the Unigrout by the end of July. and evaluation for each unit in proicle set [5/17] A:being calibrated, B: _2150 Reading mostly steady** A:_0.018_B:_0.005 Reading mostly steady** 107.9 Reading mostly steady 107.8 Reading mostly steady Reading mostly steady	Severely damaged e site 4/26-] Dispersion to the R/Bs and is [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** 149.5 Slightly increased 120.5 Slightly fluctuate	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html A T B Snows trie group of the redundant instruments Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11] Unit 2 Ch.A now being caribrated.[6/22-] Reactor water level shows the length of the fuel not covered with water Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/s
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Plant parameters Tsunami, Radioactive materials in	Accumulated water O PCV Reactor reinforcement, etc. atmosphere / soil	measures of measures of Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00] RPV temperature at feedwater nozzle (°C)[6/23 11:00] RPV temperature at the bottom of the vessel (°C)[6/23 11:00] Pressure of drywell (MPa) [6/23 11:00] Pressure of suppression pool (MPa) [6/23 11:00] Water temperature of SFP R/B Volume*3 Basement Radioactivity Volume*3 Radioactivity Concrete tunnel outside of T/B Radioactivity (Dose at water surface) Radioactivity (Concrete Volume*3 Radioactivity (Dose at water surface)	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote—control Preparation work in progress [5/13—] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Setting fire trucks etc. to the uple—Work for installing supporting structure analysis—Seuting fire trucks etc. to the uple—Work for installing supporting structure analysis—Seuting fire trucks etc. to the uple—Work for installing supporting structure analysis—Soundness of structure analysis—Pipe work completed, pumping very A:Below the lower end of gauge, B:—1600***, Reading mostly steady A:0.033, B:—, Measured with temporary pressure indicator [6/4—] 118.2 Reading mostly steady 102.1 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady Instrument failure 3.900m3[5/31] 4.0E+5Bq/cm3[3/26] 8,400m3[5/31] 4.0E+5Bq/cm3[3/26] 2,800m3[5/31] 4.0E+5Bq/cm3[3/26] 2,800m3[5/31] 6.9Bq/cm3[3/29] (0.4mSv/h[3/27]) 91,800m3 (Approx. 105,000) —Air dose rate: 5—117 µ Sv/h at the wet gate [6/24 09:00] —Some radioactive materials (I, Cs)	Partly opened re materials in the facilities and the right in progress [full operation from ontrolled heavy machine in progress against aftershocks, etc. purces to the upland [4/15] —Addit and [-4/18] —Planning to install a cucture under the bottom of the Uniterior of the uni	Severely damaged se site 4/26-] Dispersion to the R/Bs and is [4/10-] Designing tion of redundant water injection line temporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for Reading mostly steady** A:-1850, B:-2100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** 149.5 Slightly fluctuate 0.0991 Reading mostly steady 0.1832 Reading mostly steady 62°C [5/8] 6,400m3[5/31] 3.8E+6Bq/cm3[4/22] 13,600m3[5/31] 3.8E+6Bq/cm3[4/22] (120~750mSv/h[3/24,4/22]) 2,300m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31]	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be Unit 1 and 4 [5/28] ———————————————————————————————————	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html Tedundant instruments Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11] Unit 2 Ch.A now bein caribrated.[6/22-] Reactor water level shows the length of the fuel not covered with water Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sokai/special_4.html. **Continuously monitoring the chatus. Air dose rate: http://www.tepco.co.jp/en/nu/fukusima-np/f1/index-e.html Air, seawater, underground water soil
Plant parameters Tsunami, Radioactive materials in	Accumulated water O PCV Reactor reinforcement, etc. atmosphere / soil	measures of measures of Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00] RPV temperature at feedwater nozzle (°C)[6/23 11:00] RPV temperature at the bottom of the vessel (°C)[6/23 11:00] Pressure of drywell (MPa) [6/23 11:00] Pressure of suppression pool (MPa) [6/23 11:00] Water temperature of SFP R/B Volume*3 basement Radioactivity Volume*3 Radioactivity Concrete tunnel outside of T/B Total volume	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildin Removal of debris using remote—or Preparation work in progress [5/13–] Installation work of the cover to be started on 6/27 Enhancement of countermeasures—Transferring emergency power scatting fire trucks etc. to the uple—Work for installing supporting structompleted by filling concrete and scanding—Soundness of structure analysis Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised and scanding progress of structure analysis. Pipe work completed, pumping vehalised progress of structure analysis. Pipe work completed, pumping vehalised progress of structure analysis. Pipe work completed, pumping vehalised progress of structure analysis. Pipe work completed, pumping vehalised progress of structure analysis. Pipe work completed progress of structure analysis. Pipe work completed, pumping vehalised progress of structure analysis. Pipe work contents analysis. Reading mostly steady 102.1 Reading mostly steady 102.1 Reading mostly steady 103.7 Reading mostly steady 104.1 Reading mostly steady 105.1 Reading mostly steady 106.4–1 118.2 Reading mostly steady 108.3 Reading mostly steady 109.3 Reading mostly steady	Partly opened Partly opened Partly opened Partly opened Per materials in the facilities and the open in progress [full operation from ontrolled heavy machine in progres — against aftershocks, etc. Purces to the upland [4/15] —Addit and [-4/18] —Planning to install a cucture under the bottom of the Unique to the unit in production of the unit in production of the evaluation for each unit in production of the unit in productin	Severely damaged se site 4/26-] Dispersion to the R/Bs and se site 4/26-] Dispersion to the R/Bs and se site 1. Designing Designing To design service ser	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15]	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html
Plant parameters Tsunami, Radioactive materials in	Accumulated water O PCV Reactor reinforcement, etc. atmosphere / soil	measures of measures of Status mea	Scattering of radioactive materials to the outside of the facilities R/B integrity oal of STEP 1 (April through June) Dispersion of inhibitor Removal of debris Installing R/B cover oal 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) [6/23 11:00] Reactor pressure (MPa) [6/23 11:00] RPV temperature at feedwater nozzle (°C)[6/23 11:00] RPV temperature at the bottom of the vessel (°C)[6/23 11:00] Pressure of drywell (MPa) [6/23 11:00] Pressure of suppression pool (MPa) [6/23 11:00] Water temperature of SFP R/B Volume*3 basement Radioactivity Volume*3 Radioactivity Concrete tunnel outside of T/B Total volume	Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive billing scattering of radioactive billing remote—one of the cover to be started on 6/27 Enhancement of countermeasures - Transferring emergency power scatting fire trucks etc. to the uple - Work for installing supporting struction of structure analysis in the property of the cover to be started on 6/27 Enhancement of countermeasures - Transferring emergency power scatting fire trucks etc. to the uple - Work for installing supporting structure analysis in the property of the lower end of gauge, B: 1600***, Reading mostly steady A: 0.033, B:-, Measured with temporary pressure indicator [6/4-] 118.2 Reading mostly steady 102.1 Reading mostly steady 0.115 Reading mostly steady 102.1 Reading mostly steady 102.1 Reading mostly steady 102.1 Reading mostly steady 104.15 Reading mostly steady 105.11 A.0E+5Bq/cm3[3/26] 8.400m3[5/31] 4.0E+5Bq/cm3[3/26] 2.800m3[5/31] 4.0E+5Bq/cm3[3/26] 2.800m3[5/31] 4.0E+5Bq/cm3[3/26] 2.800m3[5/31] 6.9Bq/cm3[3/29] (0.4mSv/h[3/27]) 91,800m3 (Approx. 105,000 -Air dose rate: 5-117 \(\mu \) Sv/h at the wet gate [6/24 09:00] -Some radioactive materials have been defined and the seampled on 5/16 near the seawate TEPCO is examining some 3,700 weters and the seawate TEPCO is examining some 3,700 weters.	Partly opened Partly opened Partly opened Partly opened Per materials in the facilities and the open in progress [full operation from ontrolled heavy machine in progress — against aftershocks, etc. Partly opened Per materials in the facilities and the open in progress — against aftershocks, etc. Partly opened Per materials in the facilities and the open in progress — against aftershocks, etc. Partly opened Per materials in the facilities and the open in progress — against aftershocks, etc. Partly opened Per materials in the facilities and the open in progress — against aftershocks, etc. Partly opened Partly opened Partly opened Per materials in the facilities and the open in progress — against aftershocks, etc. Partly opened Per materials in the facilities and the plane in progress — against aftershocks, etc. Partly opened Partly opened Per materials in the facilities and the plane in progress Partly opened	Severely damaged se site 4/26-] Dispersion to the R/Bs and se [4/10-] Designing tion of redundant water injection limit temporary tide barriers [by the end it 4 SFP in progress. Steel pillars in gress. Seismic safety confirmed for Rading mostly steady** A:-1850, B:-2100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** A:-0.151, B:-0.100 Reading mostly steady** 149.5 Slightly increased 120.5 Slightly fluctuate 0.0991 Reading mostly steady 62°C [5/8] 6,400m3[5/31] 3.8E+6Bq/cm3[4/22] 13,600m3[5/31] 3.8E+6Bq/cm3[4/22] (120~750mSv/h[3/24,4/22]) 2,300m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 3.8E+6Bq/cm3[4/22] 5,800m3[5/31] 2.4E+2Bq/cm3[3/30] seferred to the Centralized Radiation 347 \(\mu \) Sv/h at the south side of the ected in the soil sampled at the site underground water and also seawath	Unit 1 and 3 R/Bs and other Severely damaged d T/Bs [5/27–] Planning e [-4/15] of June] installed [6/7–6/20]. Work to be Unit 1 and 4 [5/28] ———————————————————————————————————	http://www.tepco.co.jp/en/nu/fukushimanp/f1/index3-e.html

*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

TEPCO: Press Release, Press Confere
[Abbreviations]
SFP: Spent Fuel Storage Pool
EDG: Emergency Diesel Generator

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



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