## Status of countermeasures for restoring from the accident at Fukushima Daiich Unit 1 through 4. As of June 20th, 2011. (Estimated by JAIF)

Basic format				Unit 1	Unit 2	Unit 3	Unit 4	Notes
UTITIA			pe of plant hermal power_output	BWR-3 460/1380	BWR-4 784/2381	BWR-4 7 <u>84/2381</u>	BWR-4 784/2381	
Plant status		Oper	ration status uels loaded in the reactor	In service -> Shutdown 400	In service -> Shutdown 548	In service -> Shutdown 548	Outage 0	
nen hit the		No. of spent fu	uels stored in the SFP	292	548 587	548 514	1331	
rthqua	ake	-	al power supply acy power supply	FDGs automatically		o the earthquake er was lost but stopped later when t	sunami hit the plants	
<b></b> -	<b>–</b>	Core a	nd fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	Damaged (core melt*1)	No fuels loaded	
	D Status		ructural integrity ructural integrity	Limited damage and leakage Damage and leakage suspected	Unknown Damage and leakage suspected	Unknown Damage and leakage suspected	No damage No damage	
			pre cooling	Not functional	Not functional	Not functional	Not required	
Reactor cooling			(April through June)	Stable cooling (circulating injection Injecting freshwater into the reactor	n cooling reusing accumulated wa Injecting freshwater into the reactor	ter) Injecting freshwater into the reactor	_	Total injection flow:
			inimum injection rate blishment of	via feed water line at <u>4.5</u> m3/h	via feed water line at 5.0m3/h	via feed water line at <u>11.6-11.8</u> m3/h	—	<u>21.1-21.3</u> m3/h[ <u>6/19_11:0</u>
	ures		g injection cooling	Work for injection line in progress	Work for injection line in progress [4/9–]	Work for injection line in progress [4/16-]	-	
	neas		s injection into PCV	Injection continued [4/6-]	Work for injection line in progress [4/16-]	Work for injection line in progress [4/16-]	_	
	2		CV after sealing leaks	Studying Work for secondary-loop piping	Studying Construction work to be started after	Studying Construction work to be started after	—	
	e	U	at exchange function	in progress (5/13-)	improving the work environment ng the work to restore reactor cooling.	improving the work environment	_	
	Challenge	Improving	work environment	radioactive debris, radiation monitoring	is underway in each unit. TEPCO has	begun running air-filtering equipment at	_	
		Fuel integrity in SFP		the Unit2 R/B[6/11–] to remove airbor Unknown	në radioactive materiais, before openin Unknown	g the doors at the Unit2 R/B[6/19-].	No severe damage suspected*2	
60	Status	SFP cooling		Not functional	Not functional	Not functional	Not functional	
cooling	C	ioal of STEP 1 (April through June) Reliability improvement		Stable cooling	Switching from freshwater injection		Injecting freshwater via alternative	Injecting corrosion inhibito
SFP c	smeasures	in injection	ity improvement ction operation on cooling with Hx	Injecting freshwater via SFP coolant clean up line	via SFP coolant clean up line to circulation cooling	Injecting freshwater via SFP coolant clean up line	injection line. Preparing system for cooling in a stable manner	hydrazine (H2NNH2), with freshwater [5/9–]
SFF				Planned		Planned (Construction to be	Planned	
			_	Flanneu	In operation	started in late June)	Flanned	
	Status	Increase and accumulation of 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])				PMB: Process Main Build MWRTB: Miscellaneous S Waste Volume Reduction Treatment Building
	G	Goal of STEP 1 (April through June)		Securing storage place of high level radioactive wastewater				
				<ul> <li>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 place.</li> <li>Underground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August</li> <li>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.</li> <li>Highly radioactive wastewater in Unit 2 and unit 3 has being translated the Centralized Radiation Waste Treatment Facility since April 19.</li> </ul>				
/ater								
and the progress sumulated water	asur							
	me		water process facility			er started operation on June 17 <u>. and</u>		
Accumu		Installation of water process facility		desalination of processed radioac	tive water will be installed in the l	ate June.		
∢		Preventing contamination of the sea, etc.		,-Silt fences installedSeawater circulatory purification system goes into full-scale operation. [6/13] -Blocking the concrete tunnels outside the T/Bs completed [6/10]				
	enge	Preventing overflow of high level		Highly radioactive wastewater treatment system should be operated in stable and effective manner to prevent wastewater accumulated				
	east Challe			in unit-2 and 3 overflowing. Storing and processing low level radio active wastewater				
				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.				
	atum							
pur	Statu	water		controlled in the facility, and the	well water in the Fukushima Daiich			
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ergro-l vater	ures	Goal of STEP	1 (April through June)		ound water from spreading to the d water called "subdrain" is to be		bdrain is to be treated in	
Undergro-und water	neasures		1 (April through June) pundwater contamination	Pumps for correcting underground accordance with the contaminate	d water called "subdrain" is to be d water management plan.	sea restored in the middle of June. Su	bdrain is to be treated in	
	mea	Mitigation of gro	oundwater contamination	Pumps for correcting underground accordance with the contaminate Construction of wall for undergrou	d water called "subdrain" is to be d water management plan. und water isolation is under consid	sea restored in the middle of June. Su deration.		Survey map on the site:
n the	mea	Mitigation of gro Scattering of to the outs	oundwater contamination radioactive materials side of the facilities	Pumps for correcting underground accordance with the contaminate Construction of wall for undergrou	d water called "subdrain" is to be d water management plan. und water isolation is under consid	sea restored in the middle of June. Su		Survey map on the site: http://www.tepco.co.jp/en/nu/fi ma-np/f1/index3-e.html
in the il	Status mea	Mitigation of gro Scattering of to the outs R/	oundwater contamination radioactive materials side of the facilities B integrity	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioac events. Severely damaged	d water called "subdrain" is to be d water management plan. und water isolation is under consid tively contaminated debris scatte Partly opened	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged		http://www.tepco.co.jp/en/nu/fu
materials in the here / soil	Status meas	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1	oundwater contamination radioactive materials side of the facilities 'B integrity	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioact events. Severely damaged Preventing scattering of radioacti	d water called "subdrain" is to be d water management plan. und water isolation is under consid tively contaminated debris scatte Partly opened ve materials in the facilities and t	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged	t Unit 1 and 3 R/Bs and other Severely damaged	http://www.tepco.co.jp/en/nu/fu
materials in the here / soil	Status meas	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers	oundwater contamination radioactive materials side of the facilities B integrity (April through June)	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioact events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of build Removal of debris using remote-co	d water called "subdrain" is to be d water management plan. and water isolation is under consid tively contaminated debris scatte Partly opened ve materials in the facilities and th ngs in progress [full operation fro	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged ne site m 4/26-] Dispersion to the R/Bs a	t Unit 1 and 3 R/Bs and other Severely damaged	http://www.tepco.co.jp/en/nu/fr
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Radioactive materials in the atmosphere / soil	measures Status mea	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor	oundwater contamination radioactive materials side of the facilities 'B integrity (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioactive events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13- ] Installation work of the cover to be contended on 6/97 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	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progree against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pr hicle set [5/17] A:=1500, B:=2100	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged ne site m 4/26-] Dispersion to the R/Bs a ess [4/10-] Designing dition of redundant water injection lin a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7]	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June]	http://www.tepco.co.jp/en/nu/f ma-np/f1/index3-e.html
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d DCV Reactor centric Radioactive materials in the atmosphere ∕ soil	De los measures measures Status meas	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu (°C) RPV temperatu	pundwater contamination radioactive materials side of the facilities B integrity (April through June) sion of inhibitor poval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] rature at the bottom sel (°C)[6/19 11:00] of drywell (MPa) /19 11:00] pression pool (MPa) /19 11:00] mperature of SFP	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of build Removal of debris using remote-or Preparation work in progress [5/13- ] Installation work of the cover to be stated on 6/97 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 ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady <u>0.1350</u> Reading mostly steady <u>0.115</u> <u>Reading mostly steady</u> <u>0.115 Reading mostly steady</u> <u>10.115 Reading mostly steady</u> <u>10.115 Reading mostly steady</u> <u>10.15731] 4.0E+5Bq/cm3 8,400m3[5/31]</u>	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progrees against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pr hicle set [5/17] A:-1500, B:-2100 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 11,400m3[5/31]	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged ne site m 4/26-] Dispersion to the R/Bs a ass [4/10-] Designing dition of redundant water injection line a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A : <u>-1800</u> , B : <u>-2300</u> Reading mostly steady A : <u>-0.142</u> , B : <u>-0.102</u> Reading mostly steady A : <u>-0.142</u> , B : <u>-0.102</u> Reading mostly steady A : <u>-127.1</u> <u>Upward trend ending</u> <u>127.1</u> <u>Upward trend ending</u> 0.1005 Reading mostly steady <u>0.1848</u> <u>Reading mostly steady</u> <u>62°C (5/8)</u> 6,400m3[5/31] 3.8E+5Bq/cm3 13,600m3[5/31]	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/f ma-np/f1/index3-e.html
uater d DCV Reactor teinforcement. Radioactive materials in the atmosphere ∕ soil	matching of the second se	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperati (°C) RPV temperati (°C) RD Tem	pundwater contamination radioactive materials side of the facilities (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit adiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] pressure (MPa) /19 11:00] ure at feedwater nozzle [6/19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] pperaston pool (MPa) /19 11:00] mperature of SFP Volume*3 Radioactivity*3	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioaction events. Severely damaged Preventing scattering of radioaction Dispersion to the outside of build Removal of debris using remote- reparation work in progress [5/13- ] Installation work of the cover to be <u>stated on 6/97</u> 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 ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady <u>0.1350</u> Reading mostly steady <u>0.115</u> <u>Reading mostly steady</u> Instrument failure 3.900m3[5/31] 4.0E+5Bq/cm3 8.400m3[5/31]	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progrees against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pro- hicle set [5/17] A :=1500, B :=2100 Reading mostly steady A :=0.014, B :=0.002 Reading mostly steady A :=0.014, B :=0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 11,400m3[5/31]	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a lation of redundant water injection line a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:=1800, B:=2300 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly steady 62°C (5/8) 6,400m3[5/31] 3.8E+5Bq/cm3	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/fi ma-np/f1/index3-e.html
water O DCV Reactor etc atmosphere / soil	matching of the second se	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperati (°C) RPV temperati (°C) RC) RC) RC) RC) RC) RC) RC) RC) RC) R	pundwater contamination radioactive materials side of the facilities (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit adiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] pressure (MPa) /19 11:00] ure at feedwater nozzle [6/19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] uppression pool (MPa) /19 11:00] pperature of SFP Volume*3 Radioactivity*3 (Dose at water surface) Volume*3	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioaction events. Severely damaged Preventing scattering of radioaction Dispersion to the outside of build Removal of debris using remote- Preparation work in progress [5/13- ] Installation work of the cover to be <u>stated on 6/97</u> 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 ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady <u>0.1350</u> Reading mostly steady <u>0.115</u> <u>Reading mostly steady</u> <u>0.115 Reading mostly steady</u> Instrument failure 3,900m3[5/31] 4.0E+5Bq/cm3 (60mSv/h[4/28]) 1,100m3[5/31]	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progree as against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pro- hicle set [5/17] A :=1500, B :=2100 Reading mostly steady A :=0.014, B :=0.002 Reading mostly steady A :=0.014, B :=0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/h以上[3/28]) 2,400m3[5/31]	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a lation of redundant water injection line a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:=1800, B:=2300 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly steady 0.1847 Reading mostly steady 0.1848 Reading mostly steady 0.1848 Reading mostly steady 0.1847 Reading mostly steady 0.1848 Reading	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/f ma-np/f1/index3-e.html
uater O DCV Reactor reinforcement, Radioactive materials in the atmosphere / soil	matching of the second se	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperati (°C) RPV temperati (°C) RC) RC) RC) RC) RC) RC) RC) RC) RC) R	pundwater contamination radioactive materials side of the facilities (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] pressure (MPa) /19 11:00] rature at feedwater nozzle [6/19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] mperature of SFP Volume*3 Radioactivity*3 (Dose at water surface)	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of build Removal of debris using remote-or Preparation work in progress [5/13- ] Installation work of the cover to be cteated on 6/97 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 ve A:Below the lower end of gauge, B:-1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady <u>0.1350</u> Reading mostly steady <u>0.115</u> Reading mostly steady <u>0.116</u> A:0E+5Bq/cm3 (60mSv/h[4/28]) 1,100m3[5/31] 4.0E+5Bq/cm3	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progrees against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pr hicle set [5/17] A:-1500, B:-2100 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady A:-0.014, B:-0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 11,400m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/h以上[3/28])	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a loss [4/10-] Designing dition of redundant water injection line a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:=1800, B:=2300 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostl	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/f ma-np/f1/index3-e.html
d DCV Reactor reinforcement, Radioactive materials in the atmosphere / soil	matching of the second se	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperat (°C) RPV temperat (°C)	pundwater contamination radioactive materials side of the facilities B integrity (April through June) sion of inhibitor poval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit adiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] ure at feedwater nozzle [6/19 11:00] rature at the bottom sel (°C)[6/19 11:00] of drywell (MPa) /19 11:00] pperssion pool (MPa) /19 11:00] mperature of SFP Volume*3 Radioactivity*3 (Dose at water surface) Volume*3 Radioactivity*3 Volume*3 Radioactivity*3 Nolume*3 Radioactivity*3	Pumps for correcting underground accordance with the contaminate Construction of wall for underground events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of build Removal of debris using remote-or Preparation work in progress [5/13- ] Installation work of the cover to be construction 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 ve A: Below the lower end of gauge, B:=1650, Reading mostly steady A:0.027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady 0.1350 Reading mostly steady 0.1350 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 0.116 (60mSv/h[4/28]) 1,100m3[5/31] 4.0E+5Bq/cm3 (60mSv/h[4/28]) 1,100m3[5/31] 4.0E+5Bq/cm3 2,800m3[5/31]	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progree as against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Planning to install rting structure under the bottom and evaluation for each unit in pro- hicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/h以上[3/28]) 2,400m3[5/31] 1.9E+7Bq/cm3 4,800m3[5/31] 1.1E+7Bq/cm3	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a lation of redundant water injection line a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:=1800, B:=2300 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady A:=0.142, B:=0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly steady 0.1847 Reading mostly steady 0.1848 Reading mostly steady 0.1848 Reading mostly steady 0.1847 Reading mostly steady 0.1848 Reading	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/f ma-np/f1/index3-e.html
uater d DCV Reactor teinforcement. Radioactive materials in the atmosphere ∕ soil	matching of the second se	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6] RPV temperati (°C) RPV tempe	pundwater contamination radioactive materials side of the facilities (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] pressure (MPa) /19 11:00] rature at feedwater nozzle [6/19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] of drywell (MPa) /19 11:00] mperature of SFP Volume*3 Radioactivity*3 (Dose at water surface) Volume*3 Radioactivity*3 Volume*3	Pumps for correcting underground accordance with the contaminate Construction of wall for underground events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of build Removal of debris using remote-co- Preparation work in progress [5/13- ] Installation work of the cover to be resting fire trucks etc. to the up -Carry-in and setup of the suppo -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-] <u>113.8</u> Reading mostly steady <u>0.1350</u> Reading mostly steady <u>0.115</u> Reading mostly steady <u>1.100m3[5/31]</u> 4.0E+5Bq/cm3 (60mSv/h[4/28]) <u>1.100m3[5/31]</u> 4.0E+5Bq/cm3 (0.4mSv/h[3/27])	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progree and evaluation for each unit in pro- hicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/h以上[3/28]) 2,400m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/h以上[3/27])	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a less [4/10-] Designing dition of redundant water injection lin a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1005 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.cojp/en/nu/f ma-np/f1/index3-e.html
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Accumulated water 0 PCV Reactor at atmosphere / soil	Accumulated watch 2 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mitigation of gro Scattering of to the outs R/ Goal of STEP 1 Dispers Remo Install Goal of STEP 1 Countermeas Planning an reinforceme Various r Reactor [6 RPV temperatu (°C) RPV temperatu (°C) RC) RC) RC) RC) RC) RC) RC) RC) RC) R	pundwater contamination radioactive materials side of the facilities (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /19 11:00] pressure (MPa) /19 11:00] rature at feedwater nozzle [6/19 11:00] of drywell (MPa) /19 11:00] rature at the bottom sel (°C)[6/19 11:00] of drywell (MPa) /19 11:00] mperature of SFP Volume*3 Radioactivity*3 (Dose at water surface) Volume*3 Radioactivity*3 (Dose at water surface) vtolume*3 Radioactivity*3 (Dose at water surface) vtolume*3 Radioactivity*3 (Dose at water surface) vtolume*3 Radioactivity*3 (Dose at water surface) vtolume*3	Pumps for correcting underground accordance with the contaminate Construction of wall for underground Radioactive materials and radioac events. Severely damaged Preventing scattering of radioacti Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [9713- ] Installation work of the cover to be cated on 6/97 Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Soundness of structure analysis Pipe work completed, pumping ve A: Below the lower end of gauge, B:-1650, Reading mostly steady A: 0027, B:-, Measured with temporary pressure indicator [6/4-] <u>113.8</u> Reading mostly steady A: 0.115 Reading mostly steady 0.1350 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 0.115 Reading mostly steady 0.131 4.0E+5Bq/cm3 (60mSv/h[4/28]) 1.100m3[5/31] 4.0E+5Bq/cm3 2.800m3[5/31] 6.9Bq/cm3 (0.4mSv/h[3/27]) -91,800m3 (Approx. 105,000 -Air dose rate: 5-120 µ Sv/h at the wet gate [6/18 21:00]	d water called "subdrain" is to be d water management plan. and water isolation is under consid- tively contaminated debris scatte Partly opened ve materials in the facilities and the ngs in progress [full operation fro- controlled heavy machine in progree and evaluation for each unit in pro- hicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady A:=0.014, B:=0.002 Reading mostly steady 105.8 Instrument failure 0.010 Decreasing Below the lower end of gauge Instrument failure 32°C [6/19 11:00] 6,000m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/hBLL[3/28]) 2,400m3[5/31] 1.9E+7Bq/cm3 (1,000mSv/hBLL[3/28]) 2,400m3[5/31] 1.1E+7Bq/cm3 (>1,000mSv/hBLL[3/28]) 2,400m3[5/31] 1.1E+7Bq/cm3 (>1,000mSv/hBLL[3/27]) 0m3 including the wastewater trar he NPS border (Monitoring Post),	sea restored in the middle of June. Su deration. red due to the hydrogen explosion a Severely damaged he site m 4/26-] Dispersion to the R/Bs a less [4/10-] Designing dition of redundant water injection lin a temporary tide barriers [by the en of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed for A:-1800, B:-2300 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady A:-0.142, B:-0.102 Reading mostly steady 0.1005 Reading mostly steady 0.1005 Reading mostly steady 0.1848 Reading mostly	t Unit 1 and 3 R/Bs and other Severely damaged nd T/Bs [5/27–] Planning ne [-4/15] d of June] or Unit 1 and 4 [5/28] 	http://www.tepco.co.jp/en/nu/fi ma-np/f1/index3-e.html
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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



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



Under construction
 : To be done (including studying and manufacturing)