Status of countermeasures for restoring from the accident at Fukushima Daiich Unit 1 through 4. As of July 8th, 2011. (Estimated by JAIF)

Basio forma ant sta			Unit 1	Unit 2	Unit 3	Unit 4	Notes
		Type of plant	BWR-3	BWR-4	BWR-4	BWR-4	
ant st	tion		460/1380	784/2381	784/2381	784/2381	
	atus	Operation status No. of nuclear fuels loaded in the reactor	In service -> Shutdown	In service -> Shutdown 548	In service -> Shutdown	Outage	
hen hi	it by	INO. OT NUCLEAR THEIS loaded in the reactor	400 292	548 587	548 514	0 1331	
the		External power supply	202		to the earthquake	1001	
arthqu	Jake	Emergency power supply	EDGs automatically	started up when the external pow	ver was lost but stopped later when ts	unami hit the plants.	
		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	
			Damage and leakage suspected	Damage and leakage suspected	Damage and leakage suspected	No damage	
			Not functional	Not functional	Not functional	Not required	
Reactor cooling		Goal of STEP 1 (April through July)	Stable cooling (circulating injectio				Decreasing the injection rate to
		Cooling by minimum injection rate	Injecting freshwater into the reactor		Injecting freshwater into the reactor	_	prevent the overflow of the
00	asures			via feed water line at $3.5 \text{ m3/h} [7/7]$			accumulated water in the facilitie
2		Establishment of circulating injection cooling	Injection line established. Circula	tion started[6/27-] following the radio operation.	active water process facility starts its	_	
act					Work for injection line in progress		
Re	me	Nitrogen gas injection into PCV	Injection continued [4/6-]	Injection continued [6/28-]	[4/16-]	—	
		Flooding of PCV after sealing leaks	Studying	Studying	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	—	
	ge			ng the work to restore reactor cooling.			
	Challenge	Improving work environment	radioactive debris, radiation monitoring	is underway in each unit. Large-scale v	work inside the R/B started at unit-1 and 2	—	
			after radioactive substance and humidit				
	Status	Fuel integrity in SFP	Unknown	Most spent fuels not damaged*2	Unknown	Most spent fuels not damaged*2	
യ			Injection function recovered	Function recovered	Function recovered	Not functional	
cooling	res	Goal of STEP 1 (April through July)	Stable cooling		Injecting freshwater		
SFP co		Reliability improvement	Injecting freshwater	Switching from freshwater injection	via SFP coolant clean up line.	Injecting freshwater via alternative	Injecting corrosion inhibitor, hydraz
		in injection operation	via SFP coolant clean up line	via SFP coolant clean up line to circulation cooling	Bolic acid added to neutralize the	injection line, Preparing system for cooling in a stable manner	(H2NNH2), with freshwater [5/9-
	measu				alkalinized pool water [6/26,27]	-	
		Circulation cooling with Hx	Planned	In operation [5/31-]	In operation [6/30-]	Planned	
	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 99,440r	n3 [6/28])	
1							
		Goal of STEP 1 (April through July)		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 Waste Treatment Facility as water storage place. -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 Building MWRTB: Miscellaneous Solid Waste Volume Reduction Treatment Building
	asures	Securing storage place					
ē							
ed water							
eq		Transfer of radioactive waste water	Highly radioactive wastewater in l	Jnit 2 and unit 3 has been translat	ed the Centralized Radiation Waste T	reatment Facility since April 19.	
cumulate	me		-Highly radioactive wastewater tr	estment system for recycling wate	er that has processing capacity of 1,20	Mm3/day is working on a trial	
ШШ		Installation of water process facility			desalinated through the system, start		
		Preventing contamination of the sea.	-Silt fences installedSeawater	circulatory purification system goe	es into full-scale operation. $[6/13]$		
		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], etc.				
	enge	Preventing overflow of high level	nigh level Highly radioactive wastewater treatment system should be operated in stable and effective manner to prevent wastewater accumulated in				
	Chal	radioactive waste water	unit-2 and 3 overflowing.				
		Goal of STEP 1 (April through July)	Storing and processing low level radioactive wastewater				
	neası	Increasing storage capacity	18,400 tons(2,200 + 6,200 + 10,000) of tanks installed. 10,000 tons of Mega-Float prepared. 2,000 tons of receiving capacity to be secured.				
	_		Padiasativa jadina 1-121 assium				
pun	Statu	water		n the Fukushima Daiichi site. $[4/7]$		and water collected and controlled	
0-0							
ergr wat	Pumps for correcting underground water called "subdrain" is to be restored in the middle of June. Subdrain is to be tr					rain is to be treated in	
Undergro water	meas	Mitigation of groundwater contamination	accordance with the contaminated water management plan. Construction of wall for underground water isolation is under consideration.				
	E		Construction of wall for undergrou	and water isolation is under consid	leration.		
the	sn	Scattering of radioactive materials		tively contaminated debris scatter	ed due to the hydrogen explosion at l	Init 1 and 3 R/Bs and other	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushima
i i.	Status	to the outside of the facilities	events.				np/f1/index3-e.html
ials /	,	ro B integrity	Severely damaged	Partly opened	Severely damaged	Severely damaged	
ials so	·						
aterials re / so	(<u> </u>	Goal of STEP 1 (April through July)	Preventing scattering of radioacti				
e materials phere / so		Dispersion of inhibitor			ne site n 4/26-] Dispersion to the R/Bs and	T/Bs [5/27-]	
		Dispersion of inhibitor		ngs in progress [full operation fror	m 4/26-] Dispersion to the R/Bs and	T/Bs [5/27-]	
		Dispersion of inhibitor	Dispersion to the outside of buildi	ngs in progress [full operation from controlled heavy machine in progre	m 4/26-] Dispersion to the R/Bs and	T/Bs [5/27-]	
Radioactive materials atmosphere / so	(<u> </u>	Dispersion of inhibitor	Dispersion to the outside of buildi Removal of debris using remote-c Preparation work in progress [5/13-] Installation work of the cover started	ngs in progress [full operation fror ontrolled heavy machine in progre	m 4/26-] Dispersion to the R/Bs and	T/Bs [5/27-] Planning	
	measures	Dispersion of inhibitor Removal of debris Installing R/B cover	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-]	ngs in progress [full operation fror controlled heavy machine in progre 	m 4/26-] Dispersion to the R/Bs and ss [4/10-]		
Radioactive atmosp	measures	Dispersion of inhibitor	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures	ngs in progress [full operation from controlled heavy machine in progre a against aftershocks, etc.	m 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing	Planning	
Radioactive etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power so	ngs in progress [full operation from controlled heavy machine in progre 	m 4/26-] Dispersion to the R/Bs and ess [4/10-] Designing lition of redundant water injection line	Planning	
Radioactive etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up	ngs in progress [full operation fror controlled heavy machine in progre 	m 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30]	Planning [-4/15]	
Radioactive etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and	ngs in progress [full operation fror ontrolled heavy machine in progre 	m 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins	Planning [-4/15] talled [6/7-6/20]. Work to be	
Radioactive etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power so -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30]	Planning [-4/15] talled [6/7-6/20]. Work to be	
. etc. Radioactive	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and ss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins	Planning [-4/15] talled [6/7-6/20]. Work to be	
Radioactive etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm)	Dispersion to the outside of buildi Removal of debris using remote-or Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge,	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins pgress. Seismic safety confirmed for A: <u>-1850_B:-2200</u>	Planning [-4/15] talled [6/7-6/20]. Work to be	
Tsunami, Radioactive reinforcement, etc. atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00]	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:-1700**. Mostly steady	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins pgress. Seismic safety confirmed for A: <u>-1850</u> B: <u>-2200</u> Mostly steady**	Planning [-4/15] talled [6/7-6/20]. Work to be	
Tsunami, Radioactive reinforcement, etc. atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa)	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A:Below the lower end of gauge, B:—1700**. Mostly steady A:0.037, B:-, Mostly steady Measured	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and sss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A: <u>-1850_B</u> : <u>-2200</u> Mostly steady** A: <u>-0.157_B</u> : <u>-0.102</u>	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments ■Reactor water level monitors to
Tsunami, Radioactive reinforcement, etc. atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00]	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:-1700**. Mostly steady A:0037, B:-, Mostly steady Measured with temporary pressure indicator [6/4-]	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins pgress. Seismic safety confirmed for A: <u>-1850, B:-2200</u> Mostly steady** A:-0.157, B:-0.102 Mostly steady**	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11
Tsunami, Radioactive reinforcement, etc. atmosp	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa)	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A:Below the lower end of gauge, B:—1700**. Mostly steady A:0.037, B:-, Mostly steady Measured	ngs in progress [full operation from controlled heavy machine in progres 	m 4/26-] Dispersion to the R/Bs and sss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A: <u>-1850_B</u> : <u>-2200</u> Mostly steady** A: <u>-0.157_B</u> : <u>-0.102</u>	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24]
Tsunami, Radioactive reinforcement, etc. atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00] RPV temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power si -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:-1700**, Mostly steady A:0037, B:-, Mostly steady Measured with temporary pressure indicator [6/4-] <u>117.0</u> Mostly steady <u>102.2</u>	ngs in progress [full operation from controlled heavy machine in progree — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- nicle set [5/17] A:-1850, B:-2150 Mostly steady** A:0.027, B:- Mostly steady 112.2 Mostly steady 122.9	m 4/26-] Dispersion to the R/Bs and ass [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A: <u>-1850, B:-2200</u> Mostly steady** A: <u>-0.157, B:-0.102</u> Mostly steady** <u>152.5</u> <u>Mostly steady</u> 122.4	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11
Tsunami, Radioactive reinforcement, etc. atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00] RPV temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00]	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A:0037, B:—, Mostly steady Mostly steady 102.2 Mostly steady	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- nicle set [5/17] A:-1850, B:-2150 Mostly steady** A:0.027, B:- Mostly steady 112.2 Mostly steady 122.9 Mostly steady	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:- <u>1850</u> B:- <u>2200</u> Mostly steady** A:- <u>0.157</u> , B:- <u>0.102</u> Mostly steady** <u>152.5</u> <u>Mostly steady</u> <u>122.4</u> Mostly steady	Planning [-4/15] talled [6/7-6/20]. Work to be	■ Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■ Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sho
Tsunami, Radioactive	Reactor Territorium announce a	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00] RPV temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa)	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A:0.037, B:—, Mostly steady Measured with temporary pressure indicator [6/4–] <u>117.0</u> Mostly steady <u>102.2</u> <u>Mostly steady</u> <u>0.1434</u>	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. cources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:- <u>1850</u> B:- <u>2150</u> Mostly steady** A:0.027. B:- Mostly steady <u>112.2</u> Mostly steady <u>122.9</u> Mostly steady <u>0.020</u>	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:-1850_B:-2200 Mostly steady** A:-0.157_B:-0.102 Mostly steady 152.5 <u>Mostly steady</u> 122.4 <u>Mostly steady</u> 0.0994	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] Primary parameters' trend is available at JANTI's HP;
Tsunami, Radioactive atmosp	measures measures	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00] RPV temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00]	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A:0037, B:—, Mostly steady Mostly steady 102.2 Mostly steady	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- nicle set [5/17] A:-1850, B:-2150 Mostly steady** A:0.027, B:- Mostly steady 112.2 Mostly steady 122.9 Mostly steady	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:- <u>1850</u> B:- <u>2200</u> Mostly steady** A:-0.157, B:-0.102 Mostly steady** <u>152.5</u> <u>Mostly steady</u> <u>122.4</u> Mostly steady	Planning [-4/15] talled [6/7-6/20]. Work to be	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sho /special_4.html.
Tsunami, Radioactive	PGV Reactor removement, etc. autospherers	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Rev temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00]	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A:0.037, B:–, Mostly steady Measured with temporary pressure indicator [6/4–] <u>117.0</u> Mostly steady <u>0.1434</u> Mostly steady	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- nicle set [5/17] A:-1850, B:-2150 Mostly steady** A:0.027, B:- Mostly steady 112.2 Mostly steady 122.9 Mostly steady 0.020 Mostly steady** Below the lower end of gauge Instrument failure	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:- <u>1850, B:-2200</u> Mostly steady** A:- <u>0.157, B:-0.102</u> Mostly steady** A:- <u>0.157, B:-0.102</u> Mostly steady <u>122.4</u> <u>Mostly steady</u> <u>0.0994</u> Mostly steady <u>0.1824</u> Mostly steady	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28] 	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sho /special_4.html.
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Tsunami, Radioactive reinforcement, etc. atmosp	PCV Reactor removement, ever autospring v	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Rev temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00] Water temperature of SFP	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power s -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:-1700**. Mostly steady A:0.037, B:-, Mostly steady Mastly steady 102.2 Mostly steady 0.1434 Mostly steady 0.125 Mostly steady	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- nicle set [5/17] A:-1850, B:-2150 Mostly steady** A:0.027, B:- Mostly steady 112.2 Mostly steady 122.9 Mostly steady 0.020 Mostly steady** Below the lower end of gauge Instrument failure	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:- <u>1850, B:-2200</u> Mostly steady** A:- <u>0.157, B:-0.102</u> Mostly steady** A:- <u>0.157, B:-0.102</u> Mostly steady <u>122.4</u> <u>Mostly steady</u> <u>0.0994</u> Mostly steady <u>0.1824</u> Mostly steady	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28] 	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sho
Tsunami, Radioactive reinforcement, etc. atmosp	PCV Reactor removement, ever autospring v	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Rev temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00] Water temperature of SFP	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A: 0.037, B:—, Mostly steady Measured with temporary pressure indicator [6/4–] <u>117.0</u> Mostly steady <u>0.1434</u> Mostly steady <u>0.125</u> Mostly steady Instrument failure	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. ources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:- <u>1850</u> B:- <u>2150</u> Mostly steady** A:0.027, B:- Mostly steady <u>112.2</u> Mostly steady <u>122.9</u> <u>Mostly steady</u> <u>122.9</u> <u>Mostly steady</u> <u>122.9</u> <u>Mostly steady</u> <u>122.9</u> <u>Mostly steady</u> <u>122.9</u> <u>Mostly steady</u> <u>122.9</u> <u>Mostly steady</u> <u>34.0°C [7/7 11:00]</u>	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:-1850_B:-2200 Mostly steady** A:-0.157_B:-0.102 Mostly steady** A:-0.157_B:-0.102 Mostly steady 122.4 Mostly steady 0.0994 Mostly steady 0.1824 Mostly steady 0.1824 Mostly steady 0.1824 Mostly steady 0.1824 Mostly steady 0.1824 Mostly steady	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28] 	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/shu /special_4.html. **Continuously monitoring the stat OP.: Onahama Bay mean sea le
Tsunami, Radioactive reinforcement, etc. atmosp	PCV Reactor removement, ever autospring v	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Rev temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00] Water temperature of SFP	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A: 0.037, B:—, Mostly steady Measured with temporary pressure indicator [6/4–] <u>117.0</u> Mostly steady <u>0.1434</u> Mostly steady <u>0.125</u> Mostly steady <u>0.125</u> Mostly steady <u>0.1434</u> 0.125 Mostly steady <u>0.125</u> Mostly steady <u>0.1436</u> 0P.4,960	ngs in progress [full operation from controlled heavy machine in progres — s against aftershocks, etc. cources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:- <u>1850</u> B:- <u>2150</u> Mostly steady** A:0.027_B:- Mostly steady <u>112.2</u> Mostly steady <u>122.9</u> Mostly steady <u>122.9</u> Mostly steady <u>0.020</u> Mostly steady** Below the lower end of gauge Instrument failure <u>34.0°C [7/7 11:00]</u> 26,400m3 OP.3,459	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:- <u>1850, B:-2200</u> Mostly steady** A:- <u>0.157, B:-0.102</u> Mostly steady A:- <u>1525</u> <u>Mostly steady</u> <u>122.4</u> <u>Mostly steady</u> <u>122.4</u> <u>Mostly steady</u> <u>0.0994</u> <u>Mostly steady</u> <u>0.1824</u> <u>Mostly steady</u> <u>30.8°C [7/7 11:00]</u> 30,900m3 OP.3,723	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28]	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/shc /special_4.html. **Continuously monitoring the stat
Tsunami, Radioactive reinforcement, etc. atmosp	PCV Reactor removement, ever autospring v	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Rev temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00] Water temperature of SFP	Dispersion to the outside of buildi Removal of debris using remote—c Preparation work in progress [5/13–] Installation work of the cover started [6/28–] Enhancement of countermeasures —Transferring emergency power s —Setting fire trucks etc. to the up —Work for installing supporting str completed by filling concrete and —Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:—1700**. Mostly steady A: 0.037, B:—, Mostly steady Measured with temporary pressure indicator [6/4–] <u>117.0</u> Mostly steady <u>0.1434</u> Mostly steady <u>0.125</u> Mostly steady <u>0.125</u> Mostly steady <u>0.1434</u> 0.125 Mostly steady <u>0.125</u> Mostly steady <u>0.1436</u> 0P.4,960	ngs in progress [full operation from controlled heavy machine in progres — — s against aftershocks, etc. cources to the upland [4/15] -Add land [-4/18] -Installing a tempora ucture under the bottom of the Ur grout by the end of July. and evaluation for each unit in pro- hicle set [5/17] A:- <u>1850</u> B:- <u>2150</u> Mostly steady** A: <u>0.027</u> , B:- Mostly steady <u>112.2</u> Mostly steady <u>112.2</u> Mostly steady <u>122.9</u> Mostly steady <u>0.020</u> Mostly steady** Below the lower end of gauge Instrument failure <u>34.0°C [7/7 11:00]</u> 26,400m3 OP.3,459 COm3 including the wastewater tran	m 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bgress. Seismic safety confirmed for A:-1850, B:-2200 Mostly steady** A:-0.157, B:-0.102 Mostly steady** A:-0.157, B:-0.102 Mostly steady Mostly steady 122.4 Mostly steady 0.0994 Mostly steady 0.0994 Mostly steady 0.1824 Mostly steady 0.1824 0.1824 0.1824 0.1824 0.18	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28]	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/shu /special_4.html. **Continuously monitoring the stat OP.: Onahama Bay mean sea le
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High level Tsunami, Radioactive reinforcement, etc. atmosp	accumulated 8 PCV Reactor removariants accompany water autosphere measures accompany water accompany	Dispersion of inhibitor Removal of debris Installing R/B cover Goal of STEP 1 (April through July) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Various radiation shielding Reactor water level (mm) [7/7 11:00] Reactor pressure (MPa) [7/7 11:00] RPV temperature at feedwater nozzle (°C) [7/7 11:00] RPV temperature at the bottom of the vessel (°C) [7/7 11:00] Pressure of drywell (MPa) [7/7 11:00] Pressure of suppression pool (MPa) [7/7 11:00] Water temperature of SFP Stored volume[7/5] Water level in T/B[7/5] Total stored volume[7/5] Total volume of processed water	Dispersion to the outside of buildi Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Enhancement of countermeasures -Transferring emergency power so -Setting fire trucks etc. to the up -Work for installing supporting str completed by filling concrete and -Soundness of structure analysis Pipe work completed, pumping vel A: Below the lower end of gauge, B:-1700**, Mostly steady A: 0.037, B:-, Mostly steady Massly steady 102.2 Mostly steady 0.1434 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 0.125 Mostly steady 17,010m3 OP.4,960 97,610m3 (Approx. 119,46 -Air dose rate: 5-114 μ Sv/h at the main gate, 13 μ Sv/h at the wet ge -Some radioactive materials (I, Ca Radioactive materials have been of Environmental monitoring has bees sampled on 5/16 near the seawatt TEPCO is examining some 3,700 have undergone provisional medic	ngs in progress [full operation from controlled heavy machine in progree 	n 4/26-] Dispersion to the R/Bs and iss [4/10-] Designing lition of redundant water injection line ary tide barriers [-6/30] nit 4 SFP in progress. Steel pillars ins bagress. Seismic safety confirmed for A:- <u>1850, B:-2200</u> Mostly steady** A:-0.157, B:- <u>0.102</u> Mostly steady** A:-0.157, B:- <u>0.102</u> Mostly steady 152.5 <u>Mostly steady</u> <u>122.4</u> <u>Mostly steady</u> <u>0.0994</u> Mostly steady <u>0.1824</u> <u>Mostly steady</u> <u>30.8°C [7/7 11:00]</u> 30,900m3 OP.3,723 nsferred to the Centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) <u>335 µ</u> Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5]) 335 µ Sv/h at the south side of the content of the centralized Radiation [Approx. 5,500m3 desalinated [-7/5])	Planning [-4/15] talled [6/7-6/20]. Work to be Unit 1 and 4 [5/28]	redundant instruments ■Reactor water level monitors to calibrated. Unit 1 Ch.A done.[5/11 Unit 2 Ch.A conducted.[6/22-24] ■Primary parameters' trend is available at JANTI's HP; http://www.gengikyo.jp/english/sh/special_4.html. **Continuously monitoring the state OP.: Onahama Bay mean sea le Near-term target: OP. 3,000*4 Air dose rate : http://www.tepco.co.jp/en/nu/fukushi np/f1/index-e.html Air seawater, underground water soil, http://www.tepco.co.jp/en/nu/fukushi np/f1/index-e.html
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- *1 TEPCO's analysis [announced on 5/15s
- *2 TEPCO judged that most spent fuels were not damaged in the Unit 2 and 4 SFPs based on the detailed analysis of the radioactive materials in the pool water. [5/31]
- *3 Rough estimate by TEPCO [announced on 5/31]
- *4 TEPCO set the target so as to reduce the risk of the discharge of the overflowed water into the sea and the leak to the underground water.
- [Source]

Government Nuclear Emergency Response Headquarters: News Release,

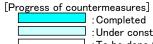
Press conference NISA: News Release, Press conference TEPCO: Press Release, Press Conference

[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:



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

:High Severe (Need immediate action)