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

					Unit 1	Unit 2	Unit 3	Unit 4	Notes	
	Basic			e of plant	BWR-3	BWR-4	BWR-4	BWR-4		
inf	ormati	ion		ermal power output tion status	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 Outage		
	nt sta en hit		No. of nuclear fuel	ls loaded in the reactor	400	548	548	0		
VVI	the	Бу	No. of spent fuels stored in the SFP External power supply		292	587 Stopped due t	514 o the earthquake	1331		
ea	rthqua	ke	Emergency power supply		EDGs automatically		er was lost but stopped later when tsu	nami hit the plants.		
		s	Core and	fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	Damaged (core melt*1)	No fuels loaded		
	Reactor cooling	Status	RPV struc	ctural integrity	Limited damage and leakage	Unknown	Unknown	No damage		
			Core	e cooling	Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	Damage and leakage suspected Not functional	No damage Not required		
			Goal of STEP 1 (A		Stable cooling (circulating injection			<u>—</u>		
			Cooling by minimum injection rate		Injecting freshwater into the reactor	Injecting freshwater into the reactor	Injecting freshwater into the reactor	_	Decreasing the injection rate to prevent the overflow of the	
						via feed water line at <u>3.6</u> m3/h [<u>7/3</u>]	via feed water line at 9.0 m3/h [7/3]		accumulated water in the facilities	
		Challenge measures	Establishment of circulating injection cooling		Injection line established. Circulation started[6/27-] following the radioactive water process facility starts its operation.					
			Nitrogen gas injection into PCV		Injection continued [4/6-]	Injection continued [6/28-]	Work for injection line in progress [4/16−]	_		
			Flooding of PC\	V 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	_		
						g the work to restore reactor cooling. Pr				
			Improving w	ork environment	radioactive debris, radiation monitoring is after radioactive substance and humidity		ork inside the R/B started at unit-1 and 2	_		
es taken			Fuel integrity in SFP		Unknown	Most spent fuels not damaged*2	Unknown	Most spent fuels not damaged*2		
	p0	Status	SFP cooling		Injection function recovered	Function recovered	Function recovered	Not functional		
	cooling	(Goal of STEP 1 (A	April through July)	Stable cooling		Talas Man Grashman			
		res	Reliability	/ improvement	Injecting freshwater	Switching from freshwater injection via SFP coolant clean up line to	Injecting freshwater via SFP coolant clean up line.	Injecting freshwater via alternative injection line, Preparing system for	Injecting corrosion inhibitor, hydrazine (H2NNH2), with	
	SFP	measures	in injecti	ion operation	via SFP coolant clean up line	circulation cooling	Bolic acid added to neutralize the alkalinized pool water [6/26,27]	cooling in a stable manner	freshwater [5/9-]	
		me	Circulation cooling with Hx		Planned	In operation [5/31-]	In operation [6/30-]	Planned		
asur		Status	Increase and	d accumulation of						
rme			Securing storage place		High level radioactive wastewater is accumulating in the R/B, T/B and RW/B of each unit. (about 99,440m3 [6/28])					
countermeasures					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	PMB: Process Main Building MWRTB: Miscellaneous Solid Waste Volume Reduction Treatment Building				
ss of	Accumulated water	rres			-Underground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August					
progress					-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.					
pro		measu			Highly radioactive wastewater in Unit 2 and unit 3 has been translated the Centralized Radiation Waste Treatment Facility since April 19.					
d the		me	To akallakian afan		-Highly radioactive wastewater tre	atment system for recycling water	that has processing capacity of 1,200	m3/day is working on a trial		
and			Installation of water process facility				desalinated through the system, start	The second secon		
plant an			_		-Silt fences installedSeawater c					
le pl		Challenge	etc. Preventing overflow of high level			tside the T/Bs completed [6/10], the operated in	etc. n stable and effective manner to prev	vent wastewater accumulated in		
of the			radioactive waste water		unit-2 and 3 overflowing.	amone dystom should be operated i	in stable and encouve marmer to prov	one wascowator aboutmated in		
çns (Goal of STEP 1 (A	April through July)	Storing and processing low level ra	adioactive wastewater				
status	Undergro-und water	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					Radioactive iodine, I-131, cesium,					
Curi		が water			in the facility, and the well water in					
					Goal of STEP 1 (April through July) Preventing contaminated underground water from spreading to the sea Pumps for correcting underground water called "subdrain" is to be restored in the middle of June. Subdrain is to be treated in accordance					
	rgro ⁄ate	res	Goal of STEP 1					rain is to be treated in accordance		
	Indergro wate	easures	Goal of STEP 1 Mitigation of groun	ndwater contamination	Pumps for correcting underground with the contaminated water mana	water called "subdrain" is to be regement plan.	estored in the middle of June. Subdi	rain is to be treated in accordance		
	Undergro wate	measures	Goal of STEP 1 Mitigation of groun	ndwater contamination	Pumps for correcting underground	water called "subdrain" is to be regement plan.	estored in the middle of June. Subdi	rain is to be treated in accordance		
			Mitigation of groun	ndwater contamination	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact	water called "subdrain" is to be rogement plan. nd water isolation is under conside	estored in the middle of June. Subdi		Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	in the		Mitigation of groun Scattering of ra to the outsid	ndwater contamination adioactive materials de of the facilities	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events.	water called "subdrain" is to be regement plan. nd water isolation is under conside	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur	nit 1 and 3 R/Bs and other	Survey map on the site:	
	in the	Status	Mitigation of groun Scattering of ra to the outsid R/B	ndwater contamination adioactive materials de of the facilities integrity	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact	water called "subdrain" is to be regement plan. nd water isolation is under conside ively contaminated debris scattere Partly opened	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged		Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	materials in the here / soil	Status	Mitigation of groun Scattering of rato the outsid R/B Goal of STEP 1 (A	ndwater contamination adioactive materials de of the facilities integrity April through July)	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv	water called "subdrain" is to be regement plan. nd water isolation is under conside ively contaminated debris scattere Partly opened e materials in the facilities and the	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged	nit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	materials in the here / soil	Status	Mitigation of groun Scattering of rato the outsid R/B Goal of STEP 1 (A	adioactive materials de of the facilities integrity April through July) on of inhibitor	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv	water called "subdrain" is to be regement plan. Ind water isolation is under considerively contaminated debris scattered Partly opened e materials in the facilities and the logs in progress [full operation from	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and T	nit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	materials in the here / soil	Status	Mitigation of groun Scattering of rato the outsid R/B Goal of STEP 1 (A	adioactive materials de of the facilities integrity April through July) on of inhibitor	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—correspondents of the progress [5/13–]	water called "subdrain" is to be regement plan. Ind water isolation is under considerively contaminated debris scattered Partly opened e materials in the facilities and the logs in progress [full operation from	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Test [4/10-]	Severely damaged T/Bs [5/27–]	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	naterials in the nere / soil	Status	Mitigation of groun Scattering of rato the outsid R/B Goal of STEP 1 (A	adioactive materials de of the facilities integrity April through July) on of inhibitor	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioactive vents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of building Removal of debris using remote-contactive services.	water called "subdrain" is to be regement plan. Ind water isolation is under considerively contaminated debris scattered Partly opened e materials in the facilities and the logs in progress [full operation from	estored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and T	nit 1 and 3 R/Bs and other Severely damaged	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the atmosphere / soil	measures Status	Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Remove Installing	adioactive materials de of the facilities integrity April through July) on of inhibitor val of debris g R/B cover	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—contamination work in progress [5/13—] Installation work of the cover started [6/28—] Enhancement of countermeasures	water called "subdrain" is to be regement plan. Individual contaminated debris scattered ively contaminated debris scattered Partly opened e materials in the facilities and the lags in progress [full operation from controlled heavy machine in progress —— against aftershocks, etc.	estored in the middle of June. Subdivation. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Test [4/10-] Designing	Severely damaged T/Bs [5/27-] Planning	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the etc.	measures Status	Mitigation of groun Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Remove Installing Goal of STEP 1 (A	adioactive materials de of the facilities integrity April through July) on of inhibitor val of debris g R/B cover	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—contamination work in progress [5/13—] Installation work of the cover started [6/28—] Enhancement of countermeasures —Transferring emergency power so	water called "subdrain" is to be regement plan. Individual contaminated debris scattered ively contaminated debris scattered Partly opened e materials in the facilities and the lags in progress [full operation from controlled heavy machine in progress ———————————————————————————————————	estored in the middle of June. Subdivation. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Test [4/10-] Designing	Severely damaged T/Bs [5/27-] Planning	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the etc.	measures Status	Mitigation of groun Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Remove Installing Goal of STEP 1 (A	adioactive materials de of the facilities integrity April through July) on of inhibitor val of debris g R/B cover April through July) res against tsunami	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—cc 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 upl—Work for installing supporting structure.	water called "subdrain" is to be regement plan. Individual water isolation is under consider ively contaminated debris scattered ively contaminated debris scattered ively contaminated debris scattered ively opened ematerials in the facilities and the lags in progress [full operation from controlled heavy machine in progress ———————————————————————————————————	estored in the middle of June. Subdivation. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Test [4/10-] Designing	Severely damaged T/Bs [5/27-] Planning -4/15]	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the etc.	measures Status	Scattering of rato the outsid R/B Goal of STEP 1 (A Dispersion Remove Installing Goal of STEP 1 (A Countermeasur	adioactive materials de of the facilities integrity April through July) on of inhibitor val of debris g R/B cover April through July)	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—cc 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 upl—Work for installing supporting strucompleted by filling concrete and generation of the content of the content of the content of the upl—Work for installing supporting strucompleted by filling concrete and generation of the content of the conte	water called "subdrain" is to be regement plan. Individual water isolation is under consider ively contaminated debris scattered Partly opened The materials in the facilities and the lags in progress [full operation from pontrolled heavy machine in progress ———————————————————————————————————	sestored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Ts [4/10-] Designing ion of redundant water injection line [4/10-1/10] t 4 SFP in progress. Steel pillars institution.	Severely damaged T/Bs [5/27-] Planning -4/15] alled [6/7-6/20]. Work to be	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the atmosphere / soil	measures Status	Mitigation of groun Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Remove Installing Goal of STEP 1 (A Countermeasur Planning and reinforcement	adioactive materials de of the facilities integrity April through July) on of inhibitor ral of debris g R/B cover April through July) res against tsunami implementation of twork of each unit	Pumps for correcting underground with the contaminated water mana Construction of wall for undergrou Radioactive materials and radioact events. Severely damaged Preventing scattering of radioactiv Dispersion to the outside of buildin Removal of debris using remote—cc 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 upl—Work for installing supporting strucompleted by filling concrete and generation of the content of the content of the content of the upl—Work for installing supporting strucompleted by filling concrete and generation of the content of the conte	water called "subdrain" is to be regement plan. Individual contaminated debris scattered ively contaminated debris scattered Partly opened e materials in the facilities and the lags in progress [full operation from controlled heavy machine in progress ———————————————————————————————————	sestored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Test [4/10-] Designing ion of redundant water injection line [4/10-] y tide barriers [-6/30]	Severely damaged T/Bs [5/27-] Planning -4/15] alled [6/7-6/20]. Work to be	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Radioactive materials in the etc.	measures Status	Mitigation of ground Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Removed Installing Goal of STEP 1 (A Countermeasure Planning and in reinforcement Various race	adioactive materials de of the facilities integrity April through July) on of inhibitor ral of debris g R/B cover April through July) res against tsunami implementation of twork of each unit	Pumps for correcting underground with the contaminated water mana Construction of wall for underground with the contaminated water mana Construction of wall for underground with the contaminate water mana Construction of wall for underground water managed water wa	water called "subdrain" is to be regement plan. Individual contaminated debris scattered ively contaminated debris scattered Partly opened e materials in the facilities and the lags in progress [full operation from controlled heavy machine in progress ———————————————————————————————————	sestored in the middle of June. Subdiration. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Ts [4/10-] Designing ion of redundant water injection line [4/10-1/10] t 4 SFP in progress. Steel pillars institution.	Severely damaged T/Bs [5/27-] Planning -4/15] alled [6/7-6/20]. Work to be	Survey map on the site: http://www.tepco.cojp/en/nu/fukushima-	
	Tsunami, Radioactive materials in the reinforcement, etc.	measures Status	Scattering of rate to the outsid R/B Goal of STEP 1 (A Dispersion Removed Installing Countermeasure Planning and ireinforcement Various race Reactor was 17/3	adioactive materials de of the facilities integrity April through July) on of inhibitor val of debris g R/B cover April through July) res against tsunami implementation of twork of each unit diation shielding ater level (mm) 3 11:00]	Pumps for correcting underground with the contaminated water mana Construction of wall for underground with the contaminated water mana Construction of wall for underground with the contaminate water mana Construction of wall for underground water managed water wa	water called "subdrain" is to be regement plan. Individual water isolation is under considerable water in the facilities and the lags in progress [full operation from controlled heavy machine in progress water in progress water is uncertainty in the unit in progress water is uncertainty in the unit in progress water is under the bottom of the Unit grout by the end of July. A:—1850, B:—2150 Reading mostly steady**	site 4/26-] Dispersion to the R/Bs and Top Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged by the Severely damaged ion of redundant water injection line [1] the Severely damaged Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged by the Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged by the Severely damaged ion of redundant water injection line [2] the Severely damaged site 4/26-] Dispersion to the R/Bs and Top Severely damaged by the Severely damaged ion of redundant water injection line [2] the Severely damaged ion of redundant water injection line [3] the Severely damaged ion of redundant water injection line [4] A SFP in progress. Steel pillars instituted and the Severely damaged A:-1900, B:-2200 Reading mostly steady**	Severely damaged T/Bs [5/27-] Planning -4/15] alled [6/7-6/20]. Work to be	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushima- np/f1/index3-e.html	
	Tsunami, Radioactive materials in the reinforcement, etc.	measures Status	Scattering of rate to the outside R/B Goal of STEP 1 (A Dispersion Remove Installing Goal of STEP 1 (A Countermeasur Planning and reinforcement Various race Reactor was 17/3 Reactor p	adioactive materials de of the facilities integrity April through July) on of inhibitor ral of debris g R/B cover April through July) res against tsunami implementation of twork of each unit diation shielding ater level (mm)	Pumps for correcting underground with the contaminated water mana Construction of wall for underground with the contaminated water mana Construction of wall for underground with the contaminate water mana Construction of wall for underground water managed water wa	water called "subdrain" is to be regement plan. Individual water isolation is under considerively contaminated debris scattered Partly opened The materials in the facilities and the legs in progress [full operation from controlled heavy machine in progress against aftershocks, etc. The progress of the upland [4/15] —Additional curve under the bottom of the Uniterior by the end of July. A :—1850, B:—2150	sestored in the middle of June. Subdivation. d due to the hydrogen explosion at Ur Severely damaged site 4/26-] Dispersion to the R/Bs and Top of the second of the sec	Severely damaged T/Bs [5/27-] Planning -4/15] alled [6/7-6/20]. Work to be	Survey map on the site: http://www.tepco.co.jp/en/nu/fukushima- np/f1/index3-e.html TA", "B" shows the group of the redundant instruments Reactor water level monitors to	
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*1 TEPCO's analysis [announced on 5/15, s

*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]

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

[Source]

R/B: Reactor Building T/B: Turbine Building RW/B: Radioactive Waste Disposal Building RHR: Residual Heat Removal system CST: Condensate water Storage Tank

Hx: Heat exchanger NPS: Nuclear power station

[Significance judged by JAIF]

:Low
:High
:Severe (Need immediate action)

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