Overview of the status of countermeasures at Fukushima Daiichi Unit 1-4 (Sep. 29th-Oct. 6th Refer to the attached table for details of (1-5)



Status of countermeasures for restoring from the accident at Fukushima Daiich Unit 1 through 4. As of October 7th, 2011*. (Estimated by JAIF)

				1 1	Lineit 9	Linit 2	theit 4	t update schedule: Oct. 13th, 2011.	
	Basic		Type of plant	Unit I BWR-3	BWR-4	BWR-4	Unit 4 BWR-4	Notes	
info	ormati	ion	Electric / Thermal power output	460/1380	784/2381	784/2381	784/2381		
Plant stat when hit the earthqual		tus	Operation status	In service -> Shutdown	In service -> Shutdown	In service -> Shutdown	Outage		
		by	No. of nuclear fuels loaded in the reactor	400	548	548	0		
			External power supply	232	Stopped due t	to the earthquake	1001		
		ake	Emergency power supply	Emergency Diesel Generato	or once had started in response to	loss of external power stopped wher	the tsunami hit these plants.		
			Core and fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	Damaged (core melt*1)	No fuels loaded		
	50	atus	RPV structural integrity	Partially damaged and leaking	Unknown	Unknown	No damage		
		St_i	PCV structural integrity	Damage and leakage suspected	Damage and leakage suspected	Damage and leakage suspected	No damage		
	ling		Core cooling	Cooling with	the alternative system created after n: 1) Tomporature of PDV bettom i	er the tsunami	Not required	"Cold shutdown status" is	
	000	Goa	al of STEP 2 (Jul. through Jan., 2012)	Release of radioactive materials fro	om PCV is under control and public	radiation exposure by additional	_	redefined in the status progress	
	oro	au		release is being significantly held d	own			report issued on July 19.	
	act	asu	Circulating injection cooling	System in oper	ation [partial operation: 6/27-, full	operation: 7/2-]	_		
	Re	me	Nitrogen gas injection into PCV	Injection continued [4/6-]	Injection continued [6/28-]	Injection started [7/14-]			
	⊕	e		RPV bottom temperatures at Units	1 through 3 have become below 10	00°C.			
		enε	Continuation and enforcement of	Water injection via core spray line,	in addition to the feed water line, s	tarted at Unit 3 $[9/1-]$ and Unit 2			
		hall	the circulating injection cooling	[9/14-]. The effect of the diversifi	ied water injection on the RPV tem	perature is being comfirmed while	—		
		C C		adjusting its flow rate.					
		tatus	Fuel integrity in SFP	Unknown	Most spent fuels not damaged*2	Unknown	Most spent fuels not damaged*2		
	ling	ي. م	SFP cooling	Function recovered	Function recovered	Function recovered	Function recovered		
	000	Goa	al of STEP 2 (Jul. through Jan., 2012)	More stable cooling. Establishment	of circulation cooling with HX (airea	ady achieved at Onit 2 and 3)			
	d.	res	Circulation cooling with Hx	Hx newly installed in operation	Hx newly installed in operation	Hx newly installed in operation	Hx newly installed in operation		
	2)SI	asu		[8/10-]	[3/31-]	[8/30-]	[//31-]		
measures taken	9	me	desalting of water in the pool	— (No seawater injected)	Operation of the desalting facility	will start after the operation of unit	operation of the desalting facility		
		S		(4.	started[8/20-]		
		tatu	Increase and accumulation of	High level radioactive wastewater i	s accumulating in the R/B, T/B and	d RW/B of each unit. (<u>Approx. 79,880</u>	m <u>3 [10/4]</u>)		
		S Con	a of STEP 2 (Jul through Jan 2012)	Peduction of total amount of contra	minated water				
		dua			atternet and the installed and here 17	lian and the second full secola basis	(Operative 1000-22 (dev.)		
			Installation of water process facility	-Highly radioactive wastewater trea	the sheep reused for core injection	is now working on a full-scale basis	. (Capacity 1200m3/day)		
							ta Turaturant Erzilita ainaa Aunil 10		
			Elimination, continuous processing	-Highly radioactive wastewater in L	started operation on August 18 Cu	ed to the Centralized Radiation Was	te Treatment Facility since April 19.		
			accumulated water in the building	-Works for installing additional desa	alination unit that consists of 8 com	ponents is in progress. 5 of them st	arted operation [8/7-, 8/31-]		
	er		Storage / management of sludge	-Sludge waste generated from the	high-level radioactive water proces	sing facility has been properly mana	ged		
	wat		waste etc.	-Facility for storing sludge waste is	s to be built.		500.		
ter	ed			-Storage capacity of 14800m3 (10.000m3 + 4.800m3) for highly radioactive wastewater are secured by using the Centralized Radiation Waste					
.unc	ulati			Treatment Facility as water storage place.					
Current status of the plant and the progress of co	Ъ	res	Securing storage place	-Work for installing underground tank for high level radioactive wastewater in progress (2,800m3 installed [9/7])					
	CCI	asu		-Storage tanks to receive processed, low to middle level radioactive wastewater with the capacity of approx. 76,000m3 installed (-9/16).					
	3)A	me		Additional capacity to be installed at about 20,000m3/month					
	\bigcirc		Preventing contamination of the sea	a, -Silt fences installedSeawater circulatory purification system goes into full-scale operation. [6/13]					
			etc.	-Blocking the concrete tunnels out	side the I/Bs completed [6/10], et	tc.			
		зgс		Highly radioactive wastewater treatment system should be operated in stable and effective manner to prevent wastewater overflowing to the					
		aller	Preventing overflow of high level	environment. <u>The accumulated wat</u>					
		Che	radioactive waste water	TEPCO plans to maintain the curre					
		Goa	al of STEP 2 (Jul. through Jan., 2012)	rough Jan 2012) Reduction of total amount of contaminated water					
		ası	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.					
		me	Decontaminating radioactive water	-Decontamination with zeolite cont	tinued	C 1 1 1			
	vater	sn	Radioactive materials in the ground	Radioactive iodine, I-131, cesium, (Cs-134, 137, and Sr-89, 90 were de	tected from the subdrain, undergrou	nd water collected and controlled in		
		Stat	water	the facility, and the well water in th	ne Fukushima Daiichi site. [4/7-]				
	ر br	Goa	al of STEP 2 (Jul. through Jan., 2012)	Mitigation of contamination in the c	ocean (continuing from Step 1)				
	no	sure		Pumps for correcting underground	water called "subdrain" have been	restored. Subdrain is being treated	in accordance with the		
	4)G	ieas	Mitigation of groundwater contamination	contaminated water management p	lan.				
	•	μ		Shleiding wan of groundwater is bei					
	lio			-Radioactive materials and radioactive	adioactive materials and radioactively contaminated debris scattered due to the hydrogen explosion occurred at Unit 1 and 3 R/Bs and other events.				
	/ s			 The release rate of radioactive mater maximum [TEPCO appounced on 9/2] 	Survey map on the site:				
	lere	tus	Scattering of radioactive materials	-Exposure doses at the site boundary	caused by radioactive substance curre	ently being released was estimated to be	0.4 mSv/y at maximum on the	http://www.tepco.co.jp/en/nu/fukush	
	sph	Stat	to the outside of the facilities	assumption of the above release rate.		,		ima-np/f1/index3-e.html	
	tmo	0,		(※Approx. one 4-millionth of the maxi	mum emission rate on 3/15, approx. on	ne 12,500th of the rate for 3/25-26, app	rox. one 1450th of the rate for 4/4-6,		
	le a			approx. one 5th of the rate for June.)					
	÷		R/B integrity	Severely damaged	Partly opened	Severely damaged	Severely damaged		
	.⊆	Goa	al of STEP 2 (Jul. through Jan., 2012)	Muturation of dispersion					
	als in								
	terials in		Dispersion of inhibitor	Splaying dispersion inhibitor outside	e and inside the R/Bs and T/Bs co	mpleted			
	materials in	s	Dispersion of inhibitor Removal of debris	Splaying dispersion inhibitor outside Removal of debris using remote-co	e and inside the R/Bs and T/Bs co introlled heavy machine in progress	mpleted [4/10-]			
	tive materials in	ures	Dispersion of inhibitor Removal of debris	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-]	e and inside the R/Bs and T/Bs co ntrolled heavy machine in progress	mpleted [4/10-] Designing	Designing	Covers for Unit 3 and 4 to be	
	oactive materials in	easures	Dispersion of inhibitor Removal of debris Installing R/B cover	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-]	e and inside the R/Bs and T/Bs co ntrolled heavy machine in progress —	mpleted [4/10-] Designing Preparation work in progress [6/20-]	Designing Preparation work in progress [6/24-]	Covers for Unit 3 and 4 to be installed after Step 2	
	Radioactive materials in	measures	Dispersion of inhibitor Removal of debris Installing R/B cover	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-]	e and inside the R/Bs and T/Bs co introlled heavy machine in progress —	mpleted [4/10-] Designing Preparation work in progress [6/20-]	Designing Preparation work in progress [6/24–]	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom	
	③Radioactive materials in	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress	e and inside the R/Bs and T/Bs co ontrolled heavy machine in progress — Detailed design in progress	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress	Designing Preparation work in progress [6/24-] —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below	
	t. ⑤Radioactive materials in	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress	e and inside the R/Bs and T/Bs co ontrolled heavy machine in progress — Detailed design in progress	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress	Designing Preparation work in progress [6/24-] —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
	nent, ⑤Radioactive materials in	Beasures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012)	Splaying dispersion inhibitor outside Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress	Designing Preparation work in progress [6/24-] —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
ŧ	cement, ⑤Radioactive materials in	Beasures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the use	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress rees to the upland [4/15] —multiple pland [-4/18] —Building temporent	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30]	Designing Preparation work in progress [6/24-] —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
ŧ	mforcement, 3.	res O measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress rees to the upland [4/15] -multiple pland [-4/18] -Building temporary	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30]	Designing Preparation work in progress [6/24-] 	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	, reinforcement, ③Radioactive materials in etc.	asures O measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity	Designing Preparation work in progress [6/24-] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
Ē	ami, reinforcement. ③Radioactive materials in etc.	measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress rces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural	Designing Preparation work in progress [6/24-] — — — — Enough seismic capacity confirmed by structural assessment [5/28] —Installation of supporting structure	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	sunami, reinforcement, ③Radioactive materials in etc.	measures စစ် measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the un Enough seismic capacity confirmed by structural assessment [5/28]	e and inside the R/Bs and T/Bs co Introlled heavy machine in progress — Detailed design in progress reces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26]	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13]	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, etc.	measures of measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the un Enough seismic capacity confirmed by structural assessment [5/28]	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress reces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26]	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13]	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures 0 measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11-00]	Splaying dispersion inhibitor outsid Removal of debris using remote-co Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u>	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress reces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> 71 via core specy line	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8 1 via core speed line	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures 00 measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u>	e and inside the R/Bs and T/Bs co Introlled heavy machine in progress — Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u>	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line §.1 via core spray line	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures D measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor water level (mm) [10/6 11:00]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u> A:Below the lower end of gauge, B:=1700**. Mostly steady	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady**	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400, B:-2300 **	Designing Preparation work in progress [6/24–] 	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures of measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor water level (mm) [10/6 11:00] Reactor pressure (MPa)	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u> A:Below the lower end of gauge, B:-1700**, Mostly steady A:0.013, B:-, Mostly steady Measured	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady** A:0.008, B:-	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400_B:-2300 ** A:-0.176_B:-0.123	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures O measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor pressure (MPa) [10/6 11:00]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] 3.8 A:Below the lower end of gauge, B:-1700**, Mostly steady A:0.013, B:-, Mostly steady Measured with temporary pressure indicator [6/4-]	e and inside the R/Bs and T/Bs co introlled heavy machine in progress — Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady** <u>A:0.008, B:-</u> Mostly steady	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400_B:-2300 ** A:-0.176_B:-0.123 Mostly steady**	Designing Preparation work in progress [6/24–] — — — — — — — — — — — — — — — — — — —	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
=	Tsunami, reinforcement, ⑤Radioactive materials in etc.	measures oo measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor pressure (MPa) [10/6 11:00] RPV temperature at feedwater nozzle	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] 3.8 A:Below the lower end of gauge. B:-1700***, Mostly steady A:0.013, B:-, Mostly steady Measured with temporary pressure indicator [6/4-] 73.5	e and inside the R/Bs and T/Bs co introlled heavy machine in progress Detailed design in progress ces to the upland [4/15] -multiple pland [-4/18] -Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady** <u>A:0.008, B:-</u> Mostly steady	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400, B:-2300 ** A:-0.176, B:-0.123 Mostly steady**	Designing Preparation work in progress [6/24–] 	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below 100°C	
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Plant parameters	gh level accumulated 전 PCV Reactor etc. ⑤Radioactive materials in etc.	water <u>o</u> measures <u>o</u> measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor water level (mm) [10/6 11:00] Reactor pressure (MPa) [10/6 11:00] RPV temperature at feedwater nozzle (°C) [10/6 11:00] RPV temperature at the bottom of the vessel (°C) [10/6 11:00] Pressure of drywell (MPa) [10/6 11:00] Pressure of SEP [10/6 11:00] Water temperature of SFP [10/6 11:00] Storage volume[10/4] Water level in T/B[10/4] Total stored volume[10/4] Waste produced [-10/4]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] 3.8 A: Below the lower end of gauge, B:-1700**, Mostly steady A:0.013, B:-, Mostly steady A:0.013, B:-, Mostly steady A:0.013, B:-, Mostly steady A:0.013, B:-, Mostly steady Mostly steady 0.1209 Mostly steady 0.100 Mostly steady 23.0°C 16,180m3 OP.+4.945mm Approx. 79.880m3 (Approx. S	e and inside the R/Bs and T/Bs co introlled heavy machine in progress —— Detailed design in progress ces to the upland [4/15] —multiple pland [-4/18] —Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady** <u>A:0008, B:-</u> Mostly steady <u>81.9</u> <u>Going down</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90.1</u> <u>90</u>	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400_B:-2300 ** A:-0.176_B:-0.123 Mostly steady** 72.6 Going down 0.1015 Mostly steady 0.1015 Mostly steady 24.4°C 25,500m3 OP-+3.045mm transferred to the Centralized Radia ted (Approx. 46.842m3 desalinated*: Used vesels: 232 (Storage capacit)	Designing Preparation work in progress [6/24-]	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below <u>100°C</u> "A", "B" shows the group of the redundant instruments Reactor water level monitors to be calibrated. 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Plant parameters	High level accumulated $\overleftarrow{\nabla}$ PCV Reactor etc. (5)Radioactive materials in etc.	water <u>o</u> measures <u>o</u> measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor vater level (mm) [10/6 11:00] Rev temperature at feedwater nozzle (°C) [10/6 11:00] RPV temperature at the bottom of the vessel (°C) [10/6 11:00] Pressure of drywell (MPa) [10/6 11:00] Pressure of suppression pool (MPa) [10/6 11:00] Water temperature of SFP [10/6 11:00] Water level in T/B[10/4] Water level in T/B[10/4] Total stored volume[10/4] Waste produced [-10/4]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u> A:Below the lower end of gauge, B:-1700**, Mostly steady <u>A:0.013, B:-</u> , Mostly steady <u>A:0.013, B:-</u> , Mostly steady <u>Confirmed by structural</u> <u>73.5</u> <u>Slightly going down</u> <u>0.1209</u> Mostly steady <u>0.100</u> Mostly steady <u>23.0°C</u> 16,180m3 <u>OP.+4,945mm</u> <u>Approx. 79.880m3 (Approx. S</u>	e and inside the R/Bs and T/Bs co introlled heavy machine in progress —— Detailed design in progress ces to the upland [4/15] —multiple pland [-4/18] —Building temporary Enough seismic capacity confirmed by structural assessment [8/26] <u>3.6 via feed wate line</u> <u>7.1 via core spray line</u> <u>A:-1800, B:-2200</u> Mostly steady** <u>A:0008, B:-</u> Mostly steady <u>81.9</u> <u>Going down</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>90.1</u> <u>Going down</u> <u>90.1</u> <u>90.1</u> <u>Going down</u> <u>91.12</u> Mostly steady Below the lower end of gauge Instrument failure <u>26.0°C</u> 19,800m3 <u>OP.+2.763mm</u> <u>97.810m3</u> including the wastewater <u>Approx. 114,800 m3</u> decontaminate <u>581m3 (Storage capacity 800m3),</u> <u>Concentrated waste liquid: 2,768</u>	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400, B:-2300 ** A:-0.176, B:-0.123 Mostly steady** 72.6 Going down 0.1015 Mostly steady 0.1015 Mostly steady 24.4°C 25,500m3 OP.+3,045mm transferred to the Centralized Radia ted (Approx, 46.842m3 desalinated*: Used vessels: 232 (Storage capacit's 9,500m3)	Designing Preparation work in progress [6/24–] 	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below <u>100°C</u>	
Plant parameters	High level accumulated \overleftarrow{v} PCV Reactor etc. ⑤Radioactive materials in etc.	water <u>o</u> measures <u>o</u> measures	Dispersion of inhibitor Removal of debris Installing R/B cover Installation of PCV gas control system al of STEP 2 (Jul. through Jan., 2012) Countermeasures against tsunami Planning and implementation of reinforcement work of each unit Reactor injection flow rate(m3/h) [10/6 11:00] Reactor vater level (mm) [10/6 11:00] Reactor pressure (MPa) [10/6 11:00] RPV temperature at feedwater nozzle (°C) [10/6 11:00] RPV temperature at the bottom of the vessel (°C) [10/6 11:00] Pressure of drywell (MPa) [10/6 11:00] Pressure of suppression pool (MPa) [10/6 11:00] Water temperature of SFP [10/6 11:00] Water level in T/B[10/4] Water level in T/B[10/4] Total stored volume[10/4] Waste produced [-10/4]	Splaying dispersion inhibitor outsid Removal of debris using remote-cc Preparation work in progress [5/13-] Installation work of the cover started [6/28-] Preparation work in progress Mitigation of further disasters -Relocating emergency power sour -Deploying fire trucks etc. at the u Enough seismic capacity confirmed by structural assessment [5/28] <u>3.8</u> A:Below the lower end of gauge, B:-1700**, Mostly steady <u>A:0.013</u> , B:-, Mostly steady <u>A:0.013</u> , B:-, Mostly steady <u>A:0.013</u> , B:-, Mostly steady <u>Confirmed by structural</u> <u>73.5</u> <u>Slightly going down</u> <u>0.1209</u> Mostly steady <u>0.100</u> Mostly steady <u>23.0°C</u> 16,180m3 <u>OP.+4.945mm</u> <u>Approx. 79.880m3 (Approx. 9</u> <u>Sludge:</u> -Air dose rate: 5-98 <i>µ</i> Sv/h at the	e and inside the R/Bs and T/Bs co introlled heavy machine in progress ———————————————————————————————————	mpleted [4/10-] Designing Preparation work in progress [6/20-] Detailed design in progress xing injection lines [-4/15] tide barriers [-6/30] Enough seismic capacity confirmed by structural assessment [7/13] 2.3 via feed wate line 8.1 via core spray line A:-2400, B:-2300 ** A:-0.176, B:-0.123 Mostly steady** 72.6 Going down 0.1015 Mostly steady 0.1015 Mostly steady 24.4°C 25,500m3 OP.+3,045mm transferred to the Centralized Radia ted (Approx, 46.842m3 desalinated*: Used vessels: 232 (Storage capacit's 9,500m3) 8µ X v/h at the south side of the off	Designing Preparation work in progress [6/24–] — - - - - - - - - - - - - -	Covers for Unit 3 and 4 to be installed after Step 2 To be installed after RPV bottom temperatures going down below <u>100°C</u>	
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*1 TEPCO's analysis [announced on 5/15,23]
*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 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



[Progress of countermeasures] : Completed

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

[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