Bas		т.		I	Unit 2	11	Lloit A	Natas
inform		1 1	pe of plant	Unit 1 BWR-3	BWR-4	Unit 3 BWR-4	Unit 4 BWR-4	Notes
) t	tion		hermal power output	460/1380	784/2381	784/2381	784/2381	
			ration status	In service -> Shutdown	In service -> Shutdown	In service -> Shutdown	Outage	
Plant s when h			uels loaded in the reactor	400	548	548	0	
the			uels stored in the SFP	292	587	514	1331	
earthq	ıake	External power supply Stopped due to the earthquak Emergency power supply EDGs automatically started up when the external power was lost but					ter when tsunami hit the plants	
7-		Core and fuel integrity Damaged (core melt*1) Damaged (core melt*1) Damaged (core melt*1) No fuels loaded						
	Status	RPV st	ructural integrity	Limited damage and leakage	Unknown	Unknown	No damage	
Reactor cooling		PCV st	ructural integrity	Damage and leakage suspected	Damage and leakage suspected	Damage and leakage suspected	No damage	
			ore cooling	Not functional	Not functional	Not functional	Not required	
		Goal of STEP 1	(April through June)	Stable cooling (circulating injection		ter)	_	
		Cooling by m	inimum injection rate	Injecting freshwater into the reactor		via feed water line at 11.2-	_	Total injection flow:
			blishment of	via feed water line at <u>5.1</u> m3/h	via feed water line at 5.0m3/h	11 2mg 2 /h		<u>21.3-21.4</u> m3/h[ <u>6/12 11:00</u>
	ures		g injection cooling	Work for injection line in progress	Work for injection line in progress [4/9-]	Work for injection line in progress [4/16-]	_	
	asn	Nitrogen ga	s injection into PCV	Injection continued [4/6-]	Work for injection line in progress	Work for injection line in progress	_	
	ne			•	[4/16-]	[4/16-]		
			CV after sealing leaks	Studying Work for secondary-loop piping	Studying  Construction work to be started after	Studying  Construction work to be started after	_	
		Securing he	at exchange function	in progress (5/13-)	improving the work environment	improving the work environment	_	
	ge			High radiation circumstance is ha	·			
	Challenge	Improving work environment		such as removing radioactive deb				
	ြမ္မ			begun running air-filtering equipment at the Unit2 R/B to remove airborne radioactive materials.[6/11]				
	Statu	Fuel integrity in SFP		Unknown Unknown No severe damage suspected*2				
es taken SFP cooling	St.	S	FP cooling	Not functional	Not functional	Not functional	Not functional	
	(	Goal of STEP 1	(April through June)	Stable cooling				
	es	Reliabil	ty improvement	Injecting freshwater	Switching from freshwater injection	Injecting freshwater	Spraying freshwater by pump truck	Injecting/Spraying corrosion
	measur		ction operation	via SFP coolant clean up line	via SFP coolant clean up line to circulation cooling	via SFP coolant clean up line	Preparing system for cooling in a stable manner	inhibitor, hydrazine (H2NNH2), v freshwater [5/9-]
	nea	Circulation	on cooling with Hx	Planned		Planned	Planned	
				ı iailileü	In operation	ı ıaııııcu	l i-iaiiiieu	<u> </u>
no l	Status	Increase and accumulation of radioactively contaminated water		High level radioactive wastewater is accumulating in the R/B, T/B and RW/B of each unit. (about 92,000m3 [5/31])				
מ		oal of STEP 1 (April through June)		Securing storage place of high level radioactive wastewater				
<u> </u>		J. J. J. L.		-Waterproof check of Centralized Radiation Waste Treatment Facility, PMB (storage capacity: approx. 10,000m3) and MWRTB(storage				
· countermeasures				capacity: approx. 4,800m3) completed				
		Securir	ng storage place	-Underground tank for high level radioactive wastewater (storage capacity: approx. 10,000m3) to be installed in the mid August				PMB: Process Main Buildi MWRTB: Miscellaneous So
Current status of the plant and the progress of Accumulated water				-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.				Waste Volume Reduction
	asures	Transfer of radioactive waste water		-Unit 2: Concrete tunnel => PMB (4/19-5/26, approx. 9,600m3, Transfer suspended and then resumed after revising the storage limit			Treatment Building	
	asni	Transfer of radioactive waste water						
	me			-Unit 3: T/B => MWRTB (5/17-5/25, approx. 3,700m3), T/B => Unit 3 main steam condenser [6/5-6/9], T/B => PMB [6/11-]				
	_	Installation of water process facility		-Water treatment system for recycling water was installed. TEPCO is preparing for test-run, aiming for starting operation on June 17.				
				(capacity: 1,200m3/day) -Desalination of processed radioactive water to be installed (capacity: 480m3/day in the late June, then increased step by step) to				
				reuse the water for reactor injection.				
		Preventing contamination of the sea,						
	ge	Preventing overflow of high level a radioactive waste water c						
	Challenge							
	Jha					ne PMB (total increased capacity: a ox. 2,700m3) is under consideratio		
5			(April through June)	Storing and processing low level r		ox. 2,700mo/ is under consideratio	11.	
5		Goal of STFP 1						
50	(	Goal of STEP 1		<u> </u>		talled by the beginning of June. 12	2,000 tons of receiving capacity	
5			g storage capacity	<u> </u>	rox. 16,000tons of tanks to be inst	talled by the beginning of June. 12	2,000 tons of receiving capacity	
	atımeası	Increasin	g storage capacity	2,200tons of tanks installed. App	rox. 16,000tons of tanks to be inst			
	Statumeası	Increasing Radioactive r	g storage capacity naterials in the ground water	2,200tons of tanks installed. App to be secured by the end of June Radioactive iodine, I-131, cesium, controlled in the facility, and the	rox. 16,000tons of tanks to be inst	detected from the subdrain, undeni site. [4/7–]		
	Statumeası	Increasing Radioactive r Goal of STEP	g storage capacity naterials in the ground water 1 (April through June)	2,200tons of tanks installed. App to be secured by the end of June Radioactive iodine, I-131, cesium, controlled in the facility, and the Preventing contaminated undergrant	rox. 16,000tons of tanks to be instance.  Cs-134, 137, <u>and Sr-89, 90</u> were well water in the Fukushima Daiich bund water from spreading to the	detected from the subdrain, undeni site. [4/7-] sea	rground water collected and	
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I sunami, Radioactive materials in Undergro-	Reactor etc measures measures measures measures	Increasing Radioactive r  Goal of STEP Mitigation of gr  Scattering of to the out: Ry Goal of STEP 1  Disper  Rem Instal Goal of STEP 1  Countermea  Planning ar reinforcemea  Various  Reactor  [6]  RPV temperat  (°C  RPV temperat  (°C)	g storage capacity naterials in the ground water 1 (April through June) pundwater contamination radioactive materials side of the facilities (B integrity (April through June) sion of inhibitor oval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /14 11:00] vre at feedwater nozzle [6/14 11:00] rature at the bottom sel (°C)[6/14 11:00] of drywell (MPa)	2,200tons of tanks installed. App to be secured by the end of June Radioactive iodine, I-131, cesium, controlled in the facility, and the Preventing contaminated undergrams.  Restoring subdrain pumps [the mi Radioactive materials and radioactive materi	Cox. 16,000tons of tanks to be instruction.  Cs-134, 137, and Sr-89, 90 were well water in the Fukushima Dailor bund water from spreading to the dule of June]. Planning subdrain notively contaminated debris scatter.  Partly opened we materials in the facilities and the large in progress [full operation from controlled heavy machine in progres.	detected from the subdrain, under is site. [4/7–] sea management according to the enhanced due to the hydrogen explosion  Severely damaged me site m 4/26–] Dispersion to the R/Bs ass [4/10–]  Designing  dition of redundant water injection a temporary tide barriers [by the confirmed of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed  A:-1850, B:-2200 Reading mostly steady A:-0.136, B:-0.104 Reading mostly steady**  149.2 Increasing**  164.5  0.1003	rground water collected and  noced storing and processing plan.  at Unit 1 and 3 R/Bs and other  Severely damaged  and T/Bs [5/27–]  Planning  line [-4/15] end of June]	http://www.tepco.co.jp/en/nu/fukuma-np/f1/index3-e.html  "A", "B" shows the group the redundant instruments  Reactor water level shows the length of the fuel not covered with water  Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/engi
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I sunami, Radioactive materials in Undergro-	PGV Reactor effer measures Status measures Status measures	Increasing Radioactive r  Goal of STEP Mitigation of gr  Scattering of to the out: R. Goal of STEP 1 Disper Rem Instal Goal of STEP 1 Countermea Planning ar reinforceme Various Reactor [6] RPV temperat (°C RPV temperat (°C) RPV temp	g storage capacity materials in the ground water  1 (April through June) coundwater contamination fradioactive materials side of the facilities  (B integrity (April through June) sion of inhibitor coval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit radiation shielding water level (mm) /14 11:00] pressure (MPa) /14 11:00] rature at the bottom sel (°C)[6/14 11:00] of drywell (MPa) /14 11:00] uppression pool (MPa) /14 11:00]	2,200tons of tanks installed. App to be secured by the end of June Radioactive iodine, I-131, cesium, controlled in the facility, and the Preventing contaminated undergrames are responsible to the preventing subdrain pumps [the mi Radioactive materials and radioactive materials	cox. 16,000tons of tanks to be instructively contaminated debris scatted by the materials in the facilities and the materials in progress.	detected from the subdrain, under site. [4/7–] sea management according to the enhanced due to the hydrogen explosion  Severely damaged me site m 4/26–] Dispersion to the R/Bs ess [4/10–]  Designing  dition of redundant water injection a temporary tide barriers [by the confirmed of the Unit 4 SFP started. [6/7] ogress. Seismic safety confirmed  A:-1850, B:-2200 Reading mostly steady  A:-0.136, B:-0.104 Reading mostly steady**  149.2 Increasing**  164.5  0.1003 Reading mostly steady  0.1841 Reading mostly steady	rground water collected and  noced storing and processing plan.  at Unit 1 and 3 R/Bs and other  Severely damaged  and T/Bs [5/27–]  Planning  line [-4/15] end of June]	http://www.tepco.co.jp/en/nu/fukima-np/f1/index3-e.html  "A", "B" shows the group the redundant instruments Reactor water level show the length of the fuel not covered with water Trend data of primary parameters are available at Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/engikyo
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\*1 TEPCO's analysis [announced on 5/15,23]

\*2 TEPCO estimated that there was no severe damage to the fuel in the Unit 4 SFP based on the concentration of radioactive materials in the pool and the pictures of the pool. [4/13,28,29]

\*3 Rough estimate by TEPCO [announced on 5/31]

[Source]

Government Nuclear Emergency Response Headquarters: News Release,

Press conference

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

[Abbreviations] SFP: Spent Fuel Storage Pool EDG: Emergency Diesel Generator

RPV: Reactor Pressure Vessel PCV: Primary Containment Vessel

R/B: Reactor Building
T/B: Turbine Building
RW/B: Radioactive Waste Disposal Building

RHR: Residual Heat Removal system CST: Condensate water Storage Tank

Hx: Heat exchanger NPS: Nuclear power station



