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

Basic		Ти					Unit 4	Notes
			pe of plant	Unit 1 BWR-3	Unit 2 BWR-4	Unit 3 BWR-4	BWR-4	
ormati			nermal power output	460/1380 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 In service -> Shutdown	784/2381 Outage	
ant sta nen hit		No. of nuclear fu	uels loaded in the reactor	400	548	548	0	
the	-	No. of spent fuels stored in the SFP External power supply		292	587 Stopped due to	514 5 the earthquake	1331	
rthqua	ke		icy power supply	EDGs automatically s		r was lost but stopped later when t	sunami hit the plants.	
	measures D Status		nd fuel integrity	Damaged (core melt*1)	Damaged (core melt*1)	Damaged (core melt*1) Unknown	No fuels loaded	
			uctural integrity uctural integrity	Limited damage and leakage Damage and leakage suspected	Unknown Damage and leakage suspected	Damage and leakage suspected	No damage No damage	
			pre cooling	Not functional	Not functional	Not functional	Not required	
Reactor cooling			(April through June)	Stable cooling (circulating injection Injecting freshwater into the reactor	n cooling reusing accumulated wat Injecting freshwater into the reactor		—	Total injection flow: 21.5m
			inimum injection rate blishment of	via feed water line at 5m3/h	via feed water line at 5m3/h	via feed water line at 11.5m3/h	—	[6/5]
			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-]	—	
		Nitrogen gas	s injection into PCV	Injection continued [4/6-]	Work for injection line in progress [4/16-]	Work for injection line in progress [4/16-]	—	
		Flooding of P	CV after sealing leaks	Studying	Studying	Studying	—	
		Securing hea	at exchange function	Work for secondary-loop piping	Manufacturing Hx in progress Construction work to be started after	Manufacturing Hx in progress Construction work to be started after	_	
	0			in progress (5/13-)	improving the work environment	improving the work environment		
	Challenge	Improving work on visconset			npering the work to restore reactor radiation monitoring and other pre			
	hall	Improving work environment		each unit. Also, cooling of the SF hampers the work in the building.	P is expected to reduce the high h	numidity in the Unit 2 R/B, which	—	
	StatyC	Fuel integrity in SFP		Unknown	Unknown	Unknown	No severe damage suspected*2	
ත		5		Not functional	Not functional	Not functional	Not functional	
countermeasures taken SFP cooling	measures	Goal of STEP 1 ((April through June)	Stable cooling			Spraying freshwater into the SFP	
			ty improvement	Injecting freshwater into the SFP	Switching from freshwater injection via SFP coolant clean up line to	Injecting freshwater into the SFP	using pump truck	Injecting/Spraying corrosic inhibitor, hydrazine (H2NNH2)
		in injec	ction operation	via SFP coolant clean up line	circulation cooling	via SFP coolant clean up line	Starting work for injection via SFP coolant cooling line	freshwater [5/9–]
		Circulatio	n cooling with Hx	Planned	In operation	Planned	Planned	
	Status	Increase and accumulation of radioactively contaminated water		High level of radioactive waste wa	ter is accumulating in the R/B, T/	/B and W/B of each unit. (about 92	,000m3 [5/31])	
		Goal of STEP 1 (April through June)		Securing storage place of high level radioactive wastewater				
		Securing storage place		-Waterproof check of Centralized Radiation Waste Treatment Facility, Process Main Building (storage capacity: approx. 10,000m3) and Miscellaneous Solid Waste Volume Reduction Treatment Building (storage capacity: approx. 4,800m3) completed -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.				
cumulated water	measures	Transfer of radioactive waste water		-Unit 2: Concrete tunnel => Process Main Building $[4/19-5/26, approx. 9,600m3]$ Wastewater transfer was suspended and resumed after revising the storage limit level of the building $[6/4-]$ -Unit 3: T/B => Miscellaneous Building $[5/17-5/25, approx. 3,700m3,$ Transfer suspended due to possible leakage], T/B => Unit 3 main steam condenser $[6/5-]$				
Accumulated wate	Installation of water process facility		water process facility					,
Acc		Preventing cor	tamination of the sea	reuse the water for injecting into -Silt fences installedWorking o		ry nurification system [5/30–]		
		Preventing contamination of the sea, etc.		-Blocking the concrete tunnels of		i y pumication system [0/ 00]		
	agı	Preventing overflow of high level radioactive waste water		While the risk of the leaking of the high level radioactive wastewater accumulating in the Unit 2 and 3 T/Bs and concrete tunnels is increasing, transfer of the water was suspended due to the limit of the capacity and the possible leakage of the receiving facilities. It has been decided to use Unit 2 and 3 main steam condensers as a receiving tank while revising the storage limit of the process main				
	aller	radioact	ive waste water	inas deen decided to use unit z ar	d 3 main steam condensers as a r	receiving tank while revising the sto	5	
	Challenge			facility (total increased capacity: a	pprox. 4,300m3)	receiving tank while revising the sto	5	
	s S	Goal of STEP 1 ((April through June)	facility (total increased capacity: a Storing and processing low level r	pprox. 4,300m3) adio active wastewater		orage limit of the process main	
	meas	Goal of STEP 1 ((April through June) storage capacity	facility (total increased capacity: a Storing and processing low level r 2,200tons of tanks installed. Appr be secured by the end of June.	pprox. 4,300m3) adio active wastewater ox. 16,000tons of tanks to be insta	alled by the beginning of June. 12,	orage limit of the process main 000 tons of receiving capacity to	
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Tsunami, Radioactive materials in Und Reactor reinforcement, etc. the atmosphere / soil und	measures Status measu Statu meas	Goal of STEP 1 (Increasing Radioactive m Goal of STEP Mitigation of gro Scattering of rathe outsid R/ Goal of STEP 1 (Countermeas Planning and reinforcement Various r Reactor [6] RPV temperatu (°C) RPV temperatu of the vess Pressure	(April through June) storage capacity naterials in the ground water 1 (April through June) bundwater contamination adioactive materials to de of the facilities B integrity (April through June) sion of inhibitor bval of debris ing R/B cover (April through June) sures against tsunami d implementation of nt work of each unit adiation shielding water level (mm) 6/6 11:00] pressure (MPa) 6/6 11:00] rature at feedwater nozzle 0 [6/6 11:00] rature at the bottom	facility (total increased capacity: a Storing and processing low level r 2,200tons of tanks installed. Appr be secured by the end of June. Radioactive iodine, I-131, and cess facility, and the well water in the F Preventing contaminated undergrown Restoring subdrain pumps [the mini- Radioactive materials and radioactive revents. Severely damaged Preventing scattering of radioactive Dispersion to the outside of buildi Removal of debris using remote-con- Under construction [5/13-] Enhancement of countermeasures -Transferring emergency power su- -Setting fire trucks etc. to the up -Field work started for installation Soundness of structure analysis and Pipe work completed, pumping velower A: Below the lower end of gauge, B: -1550, Reading mostly steady A: 0.026, B:-, Measured with temporary pressure indicator [6/4-] <u>115.6</u> Reading mostly steady** <u>99.3</u> Reading mostly steady <u>0.1313</u>	pprox. 4,300m3) adio active wastewater ox. 16,000tons of tanks to be insta um, Cs=134, 137, were detected f sukushima Daiichi site. [4/7–] und water from spreading to the s ddle of June]. Planning subdrain n sively contaminated debris scatter Partly opened re materials in the facilities and th ngs in progress [full operation from ontrolled heavy machine in progres against aftershocks, etc. Durces to the upland [4/15] –Add and [-4/18] –Planning to install a of supporting structure under the nd evaluation for each unit in prog- nicle set [5/17] A:=1500, B:=2100 Reading mostly steady A:=0.011, B:=0.011 Reading mostly steady** <u>109.3</u> Reading mostly steady <u>106.0</u> Instrument failure <u>0.025</u>	alled by the beginning of June. 12, rom the subdrain, underground wat sea nanagement according to the enhan ed due to the hydrogen explosion a Severely damaged ne site n 4/26-] Dispersion to the R/Bs a ss [4/10-] Designing ition of redundant water injection lia a temporary tide barriers [by the er bottom of the Unit 4 SFP [5/9-] gress Seismic safety confirmed for A: <u>-1850, B:-2150</u> Reading mostly steady A: <u>-0.136, B:-0.108</u> Reading mostly steady** <u>142.3</u> <u>Increasing**</u> <u>178.6</u> <u>Increasing</u>	orage limit of the process main 000 tons of receiving capacity to er collected and controlled in the need storing and processing plan. It Unit 1 and 3 R/Bs and other Severely damaged and T/Bs [5/27–] Planning ine [-4/15] ad of June]	Survey map on the site : http://www.tepco.co.jp/en/nu/f ma-np/f1/index3-e.html "A", "B" shows the group the redundant instruments Reactor water level sho the length of the fuel not covered with water "Trend data of primary parameters are available a Japan Nuclear Technology Institute's Home Page; "http://www.gengikyo.jp/e
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*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 EDG: Emergency Diesel Generator RPV: Reactor Pressure Vessel PCV: Primary Containment Vessel R/B: Reactor Building T/B: Turbine Building W/B: Waste 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

L

: Under construction] : To be done (including studying and ÷