Current Status of "Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station, TEPCO" (Revised edition)

July 19, 2011

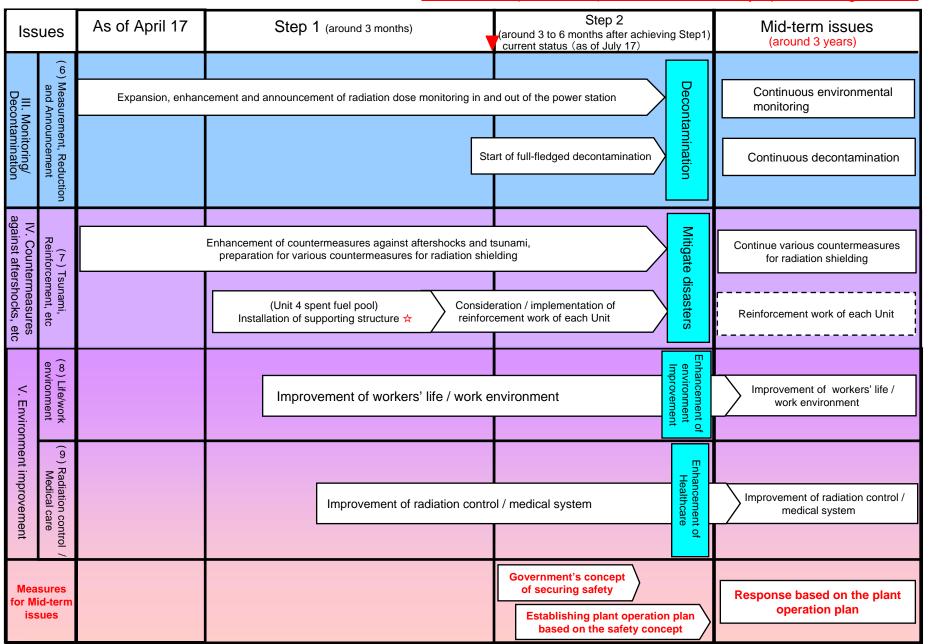
Nuclear Emergency Response Headquarters
Government-TEPCO Integrated Response Office

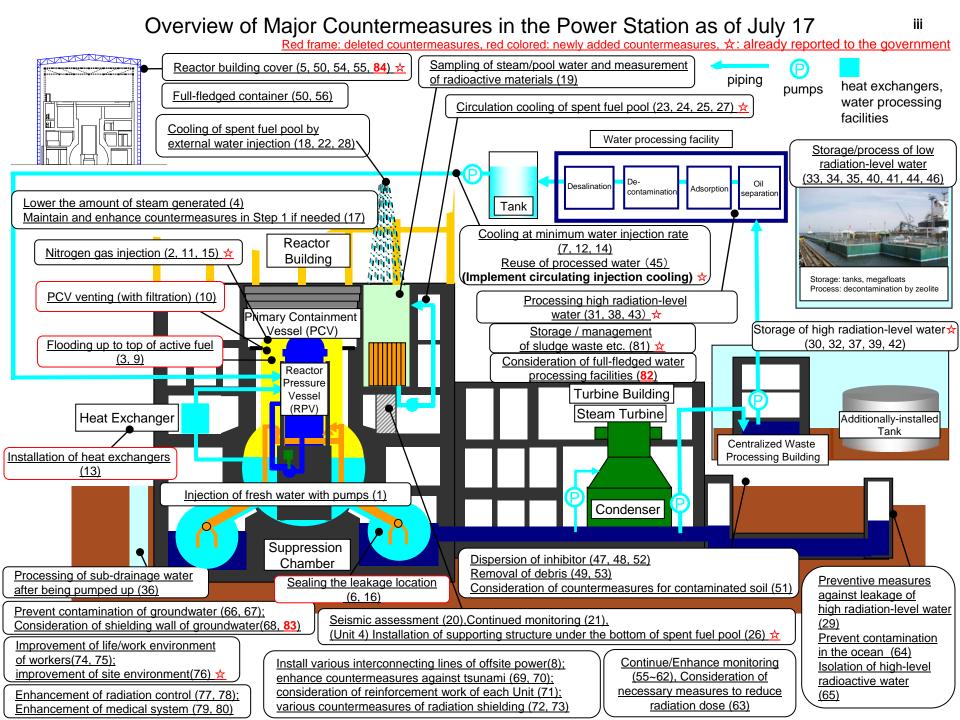
Red colored: newly added to the previous version, ☆: already reported to the government

Issues		As of April 17		Step 1 (around 3 months)		Step 2 (around 3 to 6 months after achieving Step1) current status (as of July 17)		Mid-term issues (around 3 years)
I. Cooling	(¬) Reactor	Fresh water Injection	(ii Considera	y minimum injection rate njection cooling) ation and preparation of of accumulated water Circulating Injection Cooling (start) ☆	Stable	Circulating Injection Cooing (continued)	Cold shutdow	Continuous cold shutdown condition
				Nitrogen gas injection ☆ Improvement of work environment ☆	cooling		shutdown condition	Protection against corrosion cracking of structural materials* *partially ahead of schedule
	(≈)Spent Fuel Pool	Fresh water injection		Reliability improvement in injection operation / remote-control operation *ahead of schedule / Circulation cooling system (installation of heat exchanger) *partially ahead of schedule	Stable cooling	Remote-controlled injection operation Consideration / installation of heat exchanging function	More stable cooling	Start of removal work of fuels
II. Mitigation	(ო) Accumulated Water	Transferring water with high radiation level		Installation of storage / processing facilities☆	storage place	Expansion / consideration of full-fledged processing facilities Decontamination	Reduction of total amount of contaminated water	Installation of full-fledged water processing facilities Continuous processing of accumulated water Research of processing of sludge waste etc.
			ing water with low ation level	decontamination processing		Mitigation of contamination in the ocean		Mitigation of contamination in the ocean
	(4) Grouwater			Mitigation of contamination of groundwater	gate	(Sub-drainage management with expansion of storage / processing facilities)	Mitigate ocean Contamination (continued)	Solidification of contaminated soil, etc
) Ground water			Consideration of method of shielding wall of groundwater	ocean nation	Design / start of implementation of shielding wall of groundwater	ocean nation ued)	Establishment of shielding wall of groundwater
	(ഗ) Atmosphere / Soil			Dispersion of inhibitor Removal of debris	Mitigate scattering	Installation of reactor building cover (Unit 1) ☆	Mitigate scattering (continued)	
					cattering	Removal of debris (top of Unit 3&4 R/B) Consideration of reactor building container		Removal of debris / installation of reactor building cover (Unit 3&4) Start of installation work of reactor building container

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Field work not started yet

: Safety check by government (report)

Under construction

: Field work started

Field work not started yet

Legend

Implemented (monitored by government as necessary)

: Field work started

: Under construction

: Field work not started yet

Legend

IV. Countermeasures against

environment

Environment improvement

aftershocks.

etc