(Provisional Translation) 14 December, 2016 Measures for Mid-term Risk Reduction at TEPCO's Fukushima Daiichi NPS (as of December 2016) Effective dose at **Examining the Preventing scattering** Work Earthquake / Tsunami the site boundary **Contaminated water** Radioactive waste Spent fuel inside of the Issue of dusts environment (estimated value) facilities Understandin **Managing off-site** Preventing scattering and **Enabling** a Avoiding leakage of Removing fuel Preventing scattering of Site and environmental g the internal effective dose leakage of radioactive sustainable work radioactive dusts during contaminated water from from Spent Fuel protection from during situation of environment for waste during Objective decommissioning the damaged tanks etc. Pools (SFPs) decommissioning processes Earthquake / Tsunami decommissioning decommissioning processes processes **facilities** Construction of Implementing the temporary countermeasures Completing Building Treating high-Implementing and seawall (June against scattering radioactive fuel removal the food radioactive monitoring of 2011) of dusts, in light of contaminated operation at service contaminated enhanced the scattering water from the Unit 4 SFP Scientifically Managing the center Managing a 2015 water in tanks countermeasures incident from Unit Preventing the (Dec. 2014) additional effective sea-side pipe providing the (Mar. 2015) (May. 2015) against scattering 3 (optimization of trenches (Units outflow of greater dose to 2mSv/year\* or of dusts dispersion of contaminated 2-4) (June. 2015; less by continuous not requiring earthquake/tsuna **Building** scattering full-face mask Unit 2, July. water mi model (900 gal radiation monitoring outflow of Completing rubble the large respirators prevention 2015; Unit 3, Dec. anticipating the 26.3m),and and by treating highremoval operation resting excluding the groundwater into the chemicals and 2015; Unit4)) recurrence of the establishing the radioactive at Unit 3 SFP vicinity of R/Bs facility ■ installing more 2011 Tsunami basic protection contaminated water etc. (May. (2011-2016)(May. Completing dust monitors ) (max 15.5m) etc. (Mar. 2015) plan that 2015) 2015) emoval of tanks including sub-drain (2013)corresponds to control systems (Oct lacking concrete Blocking the 2015) this model (Dec. \*Estimated value Starting operation foundations openings 2015) Completing and/or dikes (De (Sep.2013; on-site plants for 2014;H1 Area) decontamina 2016 reventing the outfloy Common Pool, miscellaneous Oct.2014; Unit 1 tion radioactive waste n R/Bs and T/Bs. T/B, Unit 2 T/B, excluding the e.g. protective Removing high Facilitating clothing (Mar. the levels of vicinity of radioactive administra roundwater and 2016) R/Bs etc. Managing the additional ion of the (Sep. 2016) water from bolt R/Bs and T/Bs (Oct. effective dose to workers by joint tanks 1mSv/year\* or less (Mar. completing (May.2015) 2016) \*Estimated value Examining the the new process of Completing main office Preventing the Implementing and accumulation of construction outflow of Managing the increase of the total monitoring of contaminated of Unit 3 R/B contaminated water in R/Bs, etc. capacity of water in tanks by restraining enhanced cover and water the inflow of groundwater countermeasures completing 2017 anticipating the into Reactor Buildings(R/Bs) and Turbine against scattering fuel removal recurrence of the Buildings(T/Bs) facility of dusts 2011 Tsunami Characterizing (max 15.5m) Dismantling of the nuclides in water Reducing the passing through the covering of Unit 2 volume of Blocking the (2016-2018) reactors contaminated openings (Unit 3 water in tanks by T/B, Process main Completing rubble discharging the Starting operation building removal operation water after of the 9th storage (planned)) Analyzing the at Unit 1 operating necessary Removing (treated) facility for contaminated rooms and SFP treatment to the contaminated water radioactive waste water of the inside (2016-2018) from bolt-joint tanks Starting operation of R/Bs, etc. 2018 accordance with of temporary Completing the regulatory Implementing the site protection storage facilities fuel removal reating contaminated requirements, measures for Mega-Float (Tanker) for contaminated vater in R/Bs and T/Bs operation at Directly observing etc. following the established plan Unit 3 SFP Completing inside of Primary adioactive material to les construction Containment than half Starting operation of Radioactive Material Dismantling of the of Unit 2 R/B Vessels(PCVs) and Analysis and Research Facility-1 upper part of stack cover and Reactor Pressure Starting operation for Units 1 and 2 Vessels(RPVs) Transferring3 to the completing of large storage stable management fuel removal plants of secondary waste Completing facility [Note] from treatment of Starting operation construction contaminated water Stabilizing sludge Completed measures: of incineration of Unit 1 R/B 2020 e.g. sledges in the generated from plants for felled cover and Measures in progress Completing High Integrity decontamination trees, flammables completing Container(HIC)s, et treatment of or in preparation: device in rubble, etc. fuel removal contaminated Measures (Timing TBD): facility Stopping of water in R/Bs and Starting operation outside storage T/Bs. of volume NRA, Japan (used protective reduction plants (year) clothing) (metal, concrete)