Measures for Mid-term Risk Reduction at TEPCO's Fukushima Daiichi NPS (as of February 2015)

18 February, 2015 Nuclear Regulation Authority, Japan

On 18 February 2015, the Nuclear Regulation Authority identified measures for Mid-term Risk Reduction at TEPCO's Fukushima Daiichi NPS, with the following purpose:

1. Purpose

- (1) To present key priorities for safety identified by the NRA among the various measures undertaken by TEPCO for the decommissioning of Fukushima Daiichi NPS.
- (2) To clearly distinguish completed measures from ongoing and planned measures.

2. Implementation

- The progress made for each objective will be measured by this document.
- This document will be regularly reviewed to reflect the state of risk reduction.

Measures for Mid-term Risk Reduction at TEPCO's Fukushima Daiichi NPS (as of February 2015) Effective dose at the **Examining the** Earthquake / Radioactive **Contaminated water** Issue site boundary Spent fuel **Work environment** inside of the **Tsunami** waste (estimated value) facilities Site and **Understanding** Managing off-site Preventing scattering **Enabling** a **Removing fuel** environmental the internal of radioactive waste effective dose Avoiding leakage of contaminated sustainable work **Objective** from Spent Fuel during situation of the during protection from water from tanks etc. environment for decommissioning decommissioning Pools (SFPs) Earthquake / damaged decommissioning processes processes facilities **Tsunami** earthquake/tsunami r the basic protection p to this model contaminated Preventing the outflow of stagnant Scientifically providing the greater recurrence of Completing fuel Building the Building the Removing highremoval operation Treating highlarge resting food-service radioactive Managing the additional at Unit 4 SFP (Dec. center contaminated water radioactive facility 2015 effective dose to 2014) from the sea-side pipe contaminated water in (Mar. 2015) (Mar. 2015) 2mSv/year* or less by tanks (May. 2015) trenches (Units 2-4) continuous radiation Starting operation of (Mar. 2015; Unit 2) monitoring and by incineration plants for Examining the treating high-radioactive miscellaneous Managing a work Preventing the outflow of process of contaminated water etc. radioactive waste e.g. environment contaminated groundwater accumulation of Completing removal (Mar. 2015) protective clothing into the sea by completing not requiring and establishing of tanks lacking contaminated the sea-side underground (Oct. 2015) full-face mask water in R/Bs, etc. concrete foundations impermeable wall including respirators sub-drain control systems and/or dikes (Apr. excluding the 2015) vicinity of R/Bs Accurately controlling etc. (May. 2015) Removing the levels of contaminated water groundwater and from bolt-joint tanks Managing the stagnant contaminated Characterizing Completing on-site additional effective 2016 water in R/Bs and T/Bs nuclides in water measures following the established plan Implementing the decontamination excluding the dose to 1mSv/year* passing through the vicinity of R/Bs etc. (Mar. 2016) or less (Mar. 2016) Managing the increase of the total capacity of reactors water in tanks by restraining the inflow of Facilitating administration groundwater into Reactor Buildings(R/Bs) and of the workers by Turbine Buildings (T/Bs) completing the new main site protection office building (Aug. 2016) Completing construction Analyzing the 2017 of Unit 3 R/B cover and contamination of Starting operation of completing fuel removal the inside of R/Bs, Reducing the volume of contaminated water incineration plants for facility in tanks by discharging the water after etc. felled trees necessary treatment to the sea in accordance Completing fuel with the regulatory requirements, etc. removal operation at Extending the capacity of Unit 3 SFP storage and volume reduction plants for Directly observing inside rubbles, etc. of Primary Containment Completing construction Vessels(PCVs) and of Unit 1 R/B cover and [Note] **Reactor Pressure** completing fuel removal Managing secondary waste Vessels(RPVs) Completed measures: facility from treatment of 2019 Measures in progress contaminated water e.g. or in preparation: Completing fuel sledges in the High Integrity Measures (Timing TBD): removal operation at *Estimated value

Unit 1 SFP

Container(HIC)s, etc.

(year)