

Response Status of Measures Taken to Store Spent Fuel (Overview)

October 24, 2017

The Federation of Electric Power
Companies of Japan

Status of initiatives taken to plan and promote measures related to spent fuel

○ Initiatives related to the policy of measures to be taken with respect to spent fuel

➤ Initiatives “Common” to every company

- ✓ Cooperation and support given in terms of offering advice related to validity and effectiveness of the results of examination of measures by Japan Nuclear Fuel Ltd based on experience related to generation of power with reference to the response given by JNFL to the report collection directive and matters pointed out with respect to violation of safety regulations by Nuclear Regulatory Commission.

➤ Initiatives by every company

- ✓ Announcement of study related to installation of dry storage facility on the site by Shikoku Electric Power Co. Inc. in December 2016.

○ Efforts taken by all operators

➤ Technical study to promote dry storage of spent fuel

- ✓ Study of organization and utilization of technical standards to enable streamlining of the seismic design assuming that the basic safety functions related to casks are ensured.

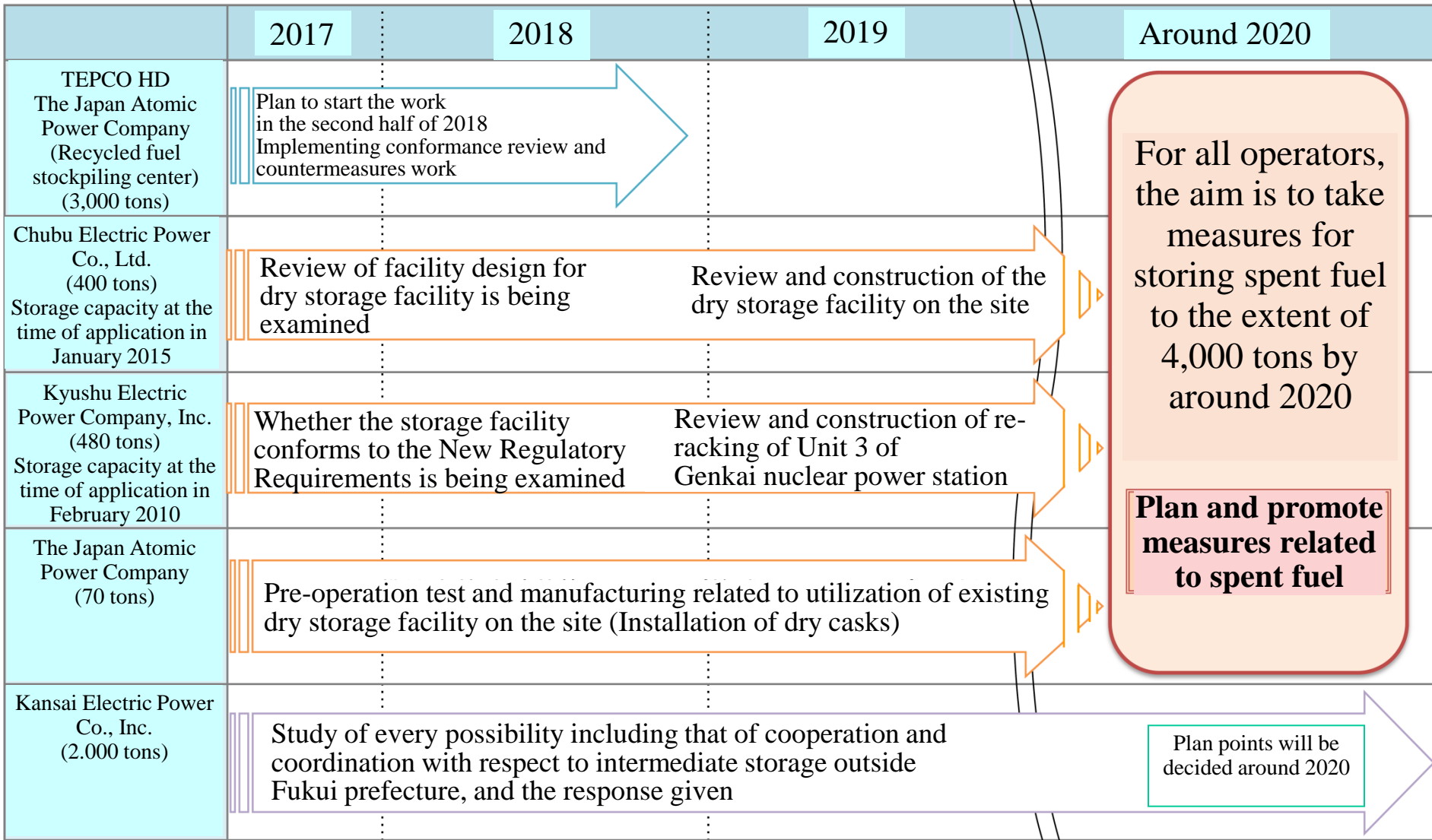
➤ Study for strengthening activities related to understanding of expansion of storage capacity of spent fuel

- ✓ Strengthening of PR activities of The Federation of Electric Power Companies of Japan (Producing video contents related to the initiatives for measures taken to store spent fuel)



(Example)
Ensuring safety and application of a cask
(5 minutes 34 seconds)

Status of initiatives related to policy of measures to be taken with respect to spent fuel



Note) The value shown inside brackets () is the increased capacity of the existing facility in case of Kyushu Electric Power Company, Inc. and The Japan Atomic Power Company.

Initiatives by Shikoku Electric Power Company: A specific plan related to the dry storage facilities on the site is being examined and the details will be compiled within the current fiscal year

Status of dry storage facility of spent fuel

[Background]

- Regarding the dry storage facility the construction plan of which was disclosed in 2008, the application for permission to change the installation was submitted on January 26, 2015, and safety review is underway.
- During the exchange of opinions between Nuclear Regulatory Commission and the President of Chubu Electric Power Co. Ltd. on July 27, 2016, there was a comment that there should be discussion by the Nuclear Regulatory Commission regarding the facilities when storage building and seismic requirements (Ss) was considered unnecessary.
- The Nuclear Regulatory Commission held the 3rd meeting through the “inspection team related to the storage of spent fuel transport cum storage casks”, the approach to regulatory requirements was consolidated, and opinions sought in the “2017 43rd Nuclear Regulatory Commission Meeting” held on October 11.
- In the future, it is expected that specific regulations and a review guide will be formulated based on the approach to the regulatory requirements.

[Future response]

Chubu Electric Power Co. Ltd. will continuously carry out studies regarding the design review for the spent fuel dry storage facility while taking into account the trends in the regulatory requirements.

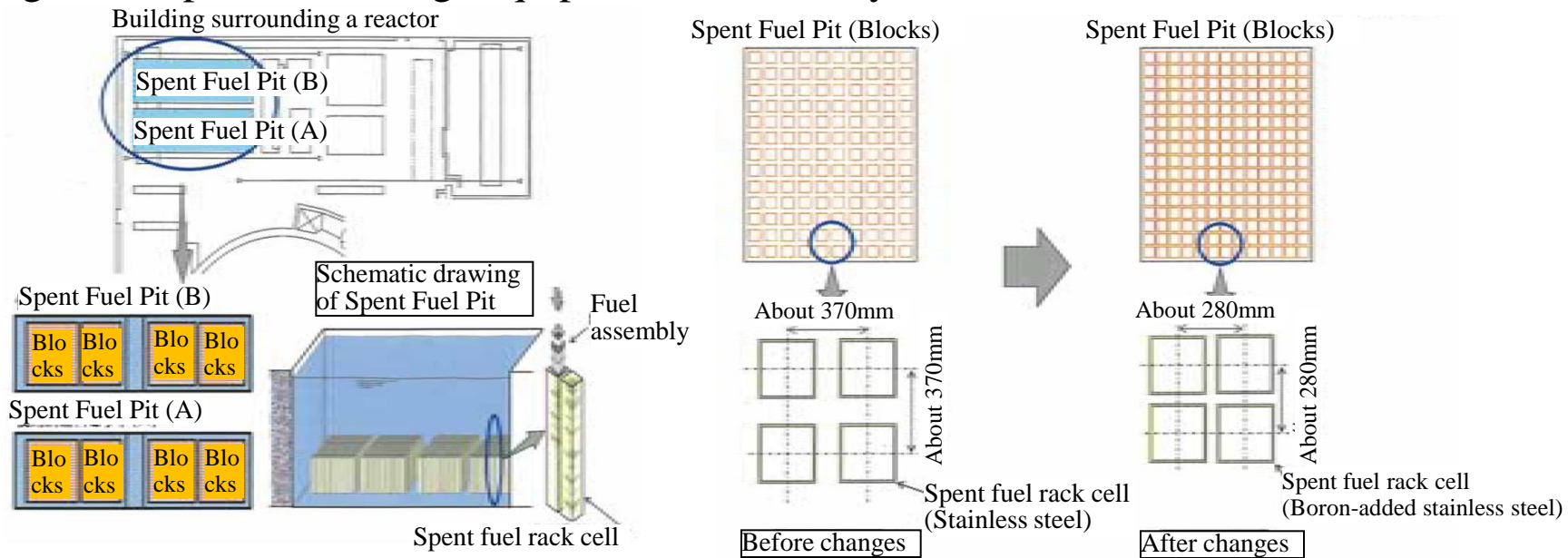
	Current Design [Application base for permission for change in reactor installation license]
Storage method	Dry storage method
Storage capacity	About 400 ton Uranium (About 2,200 in fuel assemblies)
Overview of facility	Storage building (Semi subterranean) (East-West) About 51m×(South-North) About 54 m × (Height above the ground) About 13m
Construction period	About 3 years



Re-racking of Unit 3 Genkai Power Station, Kyushu Electric Power Company, Inc.

Overview of re-racking work at Unit 3 Genkai Power Station (Applied in February 2010)

- Increasing the storage capacity of the spent fuel storage equipment of Unit 3 (from 1,050 to 2,084)
- Sharing of the spent fuel storage equipment of Unit 3 by Units 1, 2, 3, and 4



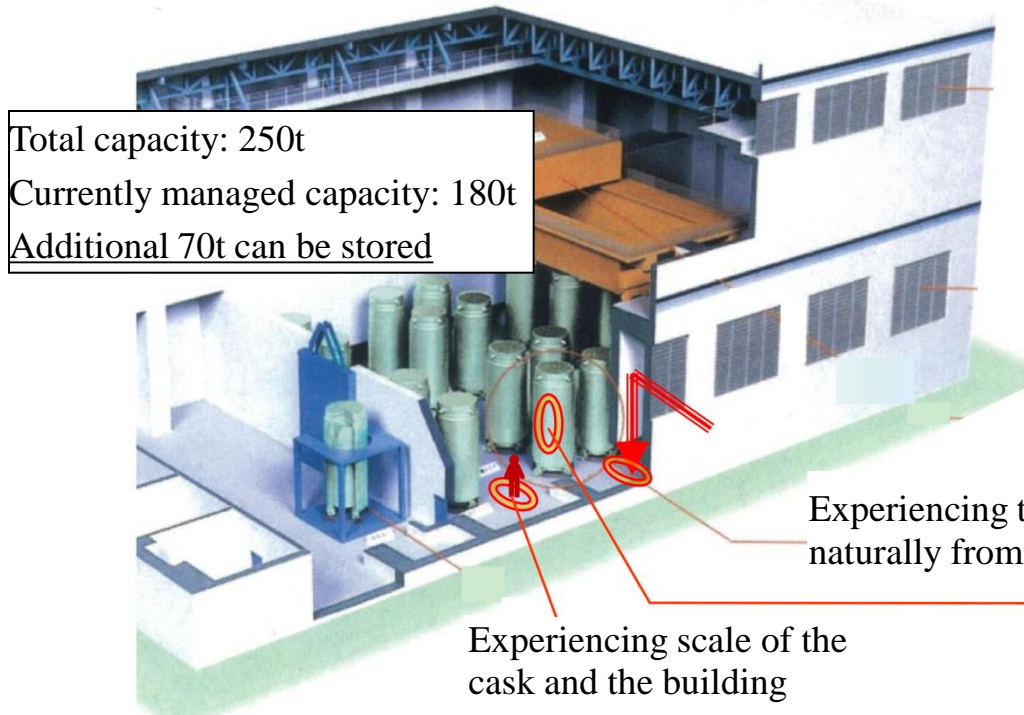
Schematic drawing of the facility related to re-racking

Schematic drawing of re-racking

Currently, response given to the New Regulatory Requirements is being examined

Tokai Daini Power Station - Response to the inspection of spent fuel dry storage facility

- Inspection: more than 100 cases in a year, and more than 1,500 people
(November 2015 ~ the end of September 2017 Total 290 times)

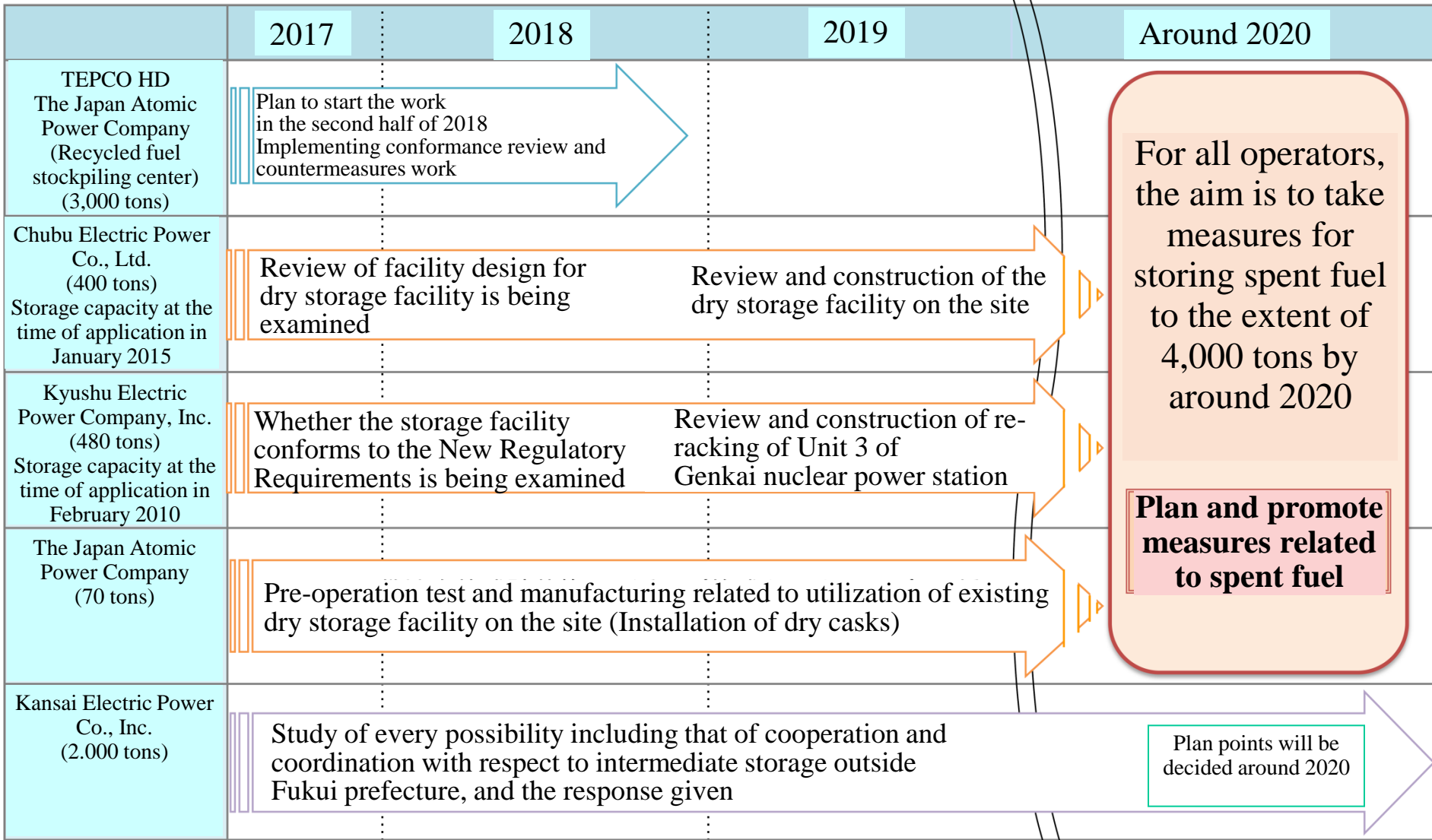


- Working on carefully explaining the mechanism of dry storage and safety functions and activities to understand the same.
- Actually feeling the safety of dry storage through the experience of natural convection cooling of cask by air.

Supporting the intermediate storage project for storage of recycled fuel

- Understanding the status of review of conformance to New Regulatory Requirements of storage of recycled fuel and providing support
- Technical cooperation related to review of type certification and type designation of storage container manufacturer

Status of initiatives related to policy of measures to be taken with respect to spent fuel (Reproduced)



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