

Summary of Press Conference Comments Made by Satoru Katsuno,
FEPC Chairman, on November 17, 2017

I am Satoru Katsuno, Chairman of FEPC.

Firstly, NUMO announced on the 14th of this week that inappropriate means were used to gather participants for the opinion exchange meeting regarding the Nationwide Map of Scientific Features for Geological Disposal.

I am disappointed by this announcement as it only promotes distrust towards electric utilities in general.

We electric utilities are amid various activities to hold dialogue, and I have shared this announcement with various companies and have issued reminders.

We would like to continue our efforts for the electric industry while exercising caution, and will continue supporting NUMO for its efforts.

Today, I would like to talk about the following two topics: action status for spent fuel storage measures and COP23.

<Action status for spent fuel storage measures>

The first topic is the action status for spent fuel storage measures.

The nine electric utilities and The Japan Atomic Power Company (hereinafter: JAPC) reported their efforts over the past year for the Spent Fuel Measures Promotion Plan to the Minister of Economy, Trade and Industry at the 3rd Spent Fuel Measures Promotion Conference held on October 24.

The [documents](#) distributed are the details of the report given at the conference.

Details are summarized on page two of the document, but common efforts by electric utilities up until now include support for the early completion of Japan Nuclear Fuel Limited's (hereinafter: JNFL) Rokkasho Reprocessing Plant, and JNFL cooperating/supporting electric utilities through experience-based advice regarding mandatory reports to the Nuclear Regulation Authority and events regarded as a violation of Technical Specifications.

Also, each utility has made efforts to expand its storage capability based on their own policy such as Shikoku Electric Power Company declaring the review of installing dry storage facilities within the site premise of Ikata Nuclear Power Station last December.

Furthermore, domestic electric utilities have reviewed technical standards to streamline seismic resistant design while ensuring basic safety features of the storage container cask as part of the technical review to promote dry storage of spent fuel; and have published four video contents regarding spent fuel storage measures on the website of The Federation of Electric Power Companies of Japan (hereinafter: FEPC).

The conference saw four items being issued from the Minister as challenges to continuously be worked on through coordination between electric utilities.

The four items are “the realization of the Spent Fuel Measures Promotion Plan”, “maximum cooperation and support being given to business management for restructuring JNFL’s framework for safety management and completing the reprocessing plant”, “early implementation of the plutonium-thermal fuel to the extent possible”, and “holding open dialogue with the community using the Nationwide Map of Scientific Features for Geological Disposal and surely disposing of disassembled waste materials”.

We plan to continue our efforts to realize the Spent Fuel Storage Plan, and take necessary action to expand the storage capability for spent fuel in a safe and systematic manner through the cooperation of the regional community. In doing so, we will promote more coordination and cooperation in making efforts under the understanding that these are common challenges for electric utilities.

Also, the promotion of the nuclear fuel cycle involving reprocessing and plutonium-thermal fuel is thought to be critical from the perspectives of effectively utilizing energy resources and reducing waste and reducing hazard levels; and necessary support will continue to be provided to strengthen JNFL’s framework for safety management. Maximum efforts will be taken for the implementation of plutonium-thermal fuel under the basic principle of not possessing any idle plutonium.

Furthermore, as a group responsible for generating high level radioactive waste, its final disposal shall be explained and information provided in an accessible manner using opportunities such as the publication of the nationwide map of scientific features for geological disposal and holding dialogue autonomously and actively with the local community. Necessary reviews and efforts shall surely be performed regarding disassembled waste materials generated from decommissioning of plants, to ensure its safe and smooth disposal.

All the items above are significant, and we will act on each item sincerely.

< COP23 >

The next topic is about COP 23.

The COP23 being held in Bonn, Germany from the 6th of this month will close today.

This conference saw discussion regarding the establishment of a detailed rulebook for making the Paris Agreement effective.

We understand that the conference will continue negotiations for an agreement at COP24 to be held in Poland in December next year, but we would like our government to make effort to use its country’s experience and knowledge gained through autonomous efforts for highly transparent rule-making.

The 3rd Round Table for Studying Energy Situations held on the 13th this week also discussed global warming measures and energy policies with opinions being exchanged regarding European and American case studies.

Energy policies support the base of everyday life for citizens and for economic activities, and countries are striving to realize both global warming measures and securing a stable supply of energy. Our country, which lacks energy resources, plans to simultaneously achieve the

“S+3E”: Energy Security, Economic Efficiency, and Environment, with the securing of Safety as a major prerequisite.

From an environmental perspective, we are working to achieve the goals declared by The Electric Power Council for a Low Carbon Society comprised of a total of 42 companies including ten members of the FEPC, Electric Power Development Co., Ltd., JAPC and new electric companies, but we also contribute to the reduction of greenhouse gas on a global scale by pursuing an optimal energy mix from the S+3E perspective.

<Response regarding data fabrication by Kobe Steel Ltd. >

I would finally like to talk briefly about the response regarding data fabrication by Kobe Steel Ltd. Each company is currently verifying if there had been procurements of products subject to data fabrication, and if such procurements existed, the reliability of the product is being confirmed.

As it has already been announced for nuclear related facilities, the replacement parts for the heat exchanger stored in the warehouse of TEPCO’s Fukushima Daini Nuclear Power Station Unit 3 and parts planned to be used for the new centrifuge to be manufactured at JNFL’s uranium enrichment plant used the subject products, but both parts were not yet used.

Also, as utilities have already announced previously for thermal power generating facilities, thin tubes used in condensers at 19 stations of eight utilities use the subject products, but each utility has verified that there are no safety issues regarding integrity of components.

According to Kobe Steel Ltd., there have not yet been safety related cases requiring the immediate halt in the use of subject products or its recall, but we will continue thorough verification, and respond appropriately considering the survey results from Kobe Steel Ltd.

This will conclude my segment today.

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.

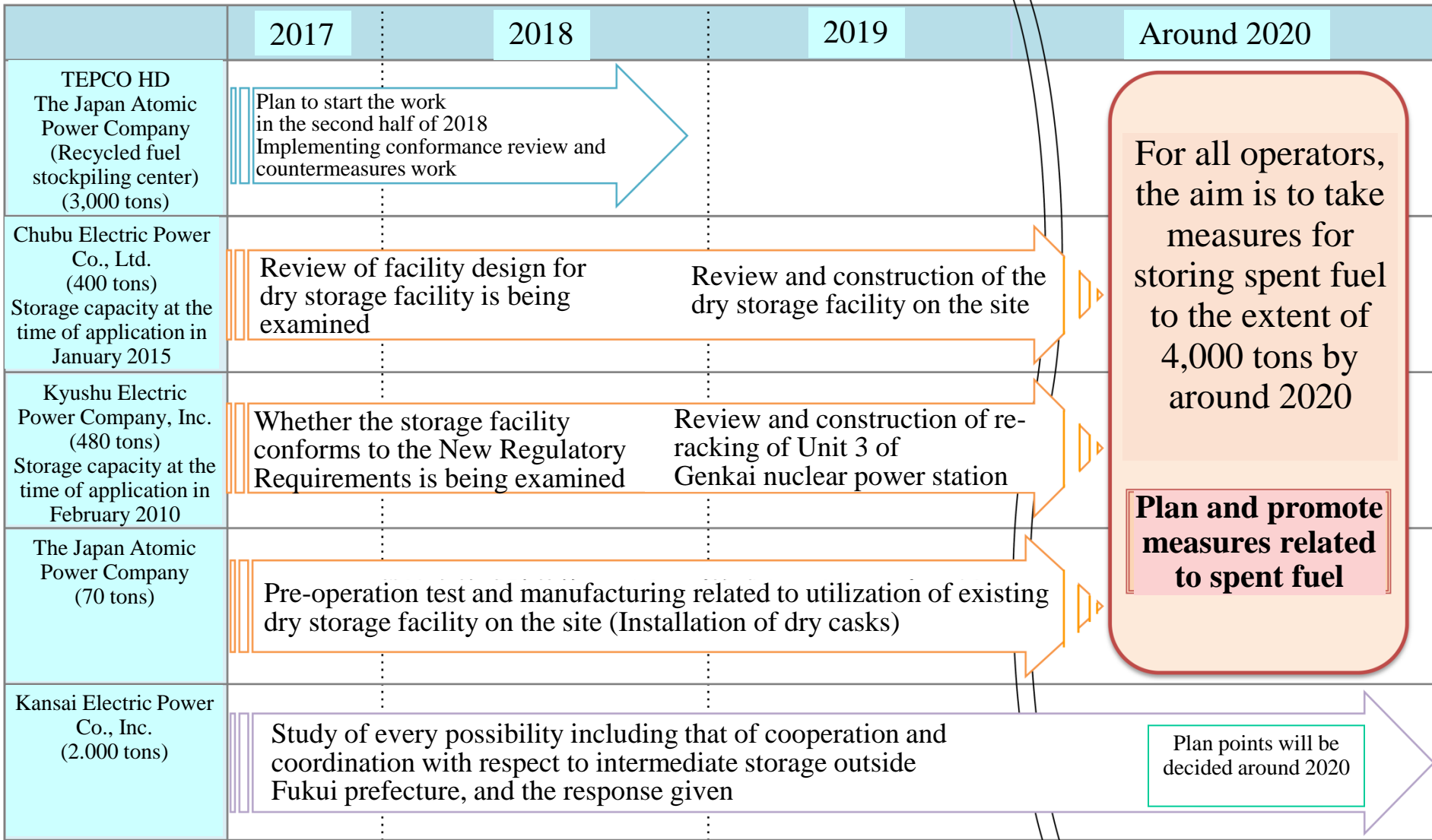
➤ Study for strengthening activities related to understanding of expansion of storage capacity of spent fuel

- ✓ 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.

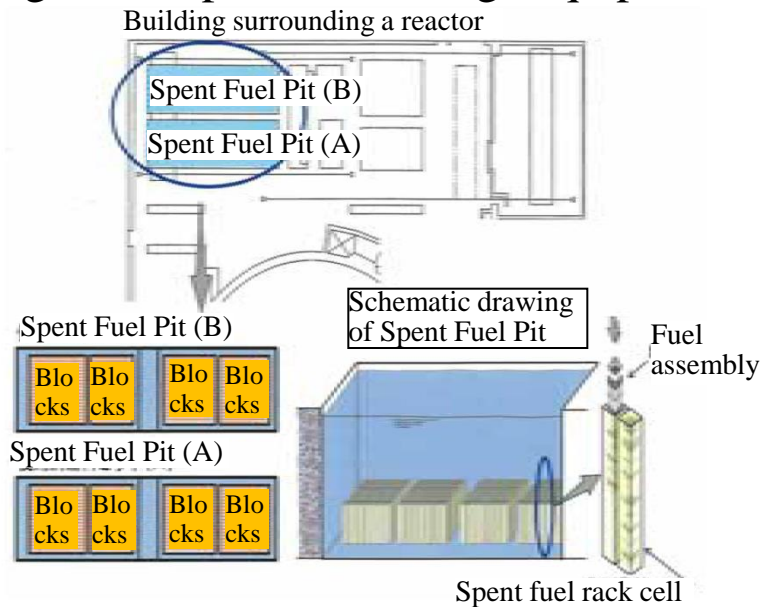
	Current Design [Application base for permission for change in reactor installation license]
Storage method	Dry storage method
Storage capacity	About 400 ton Uranium (About 2,200 in fuel assemblies)
Overview of facility	Storage building (Semi subterranean) (East-West) About 51m×(South-North) About 54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



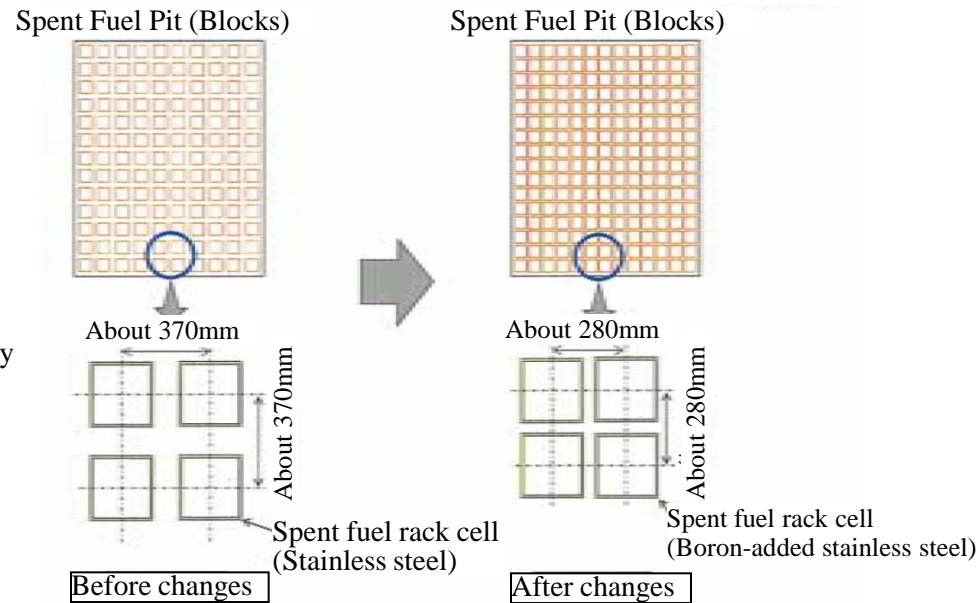
Re-racking of Unit 3 Genkai Power Station, Kyushu Electric Power Company, Inc.

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

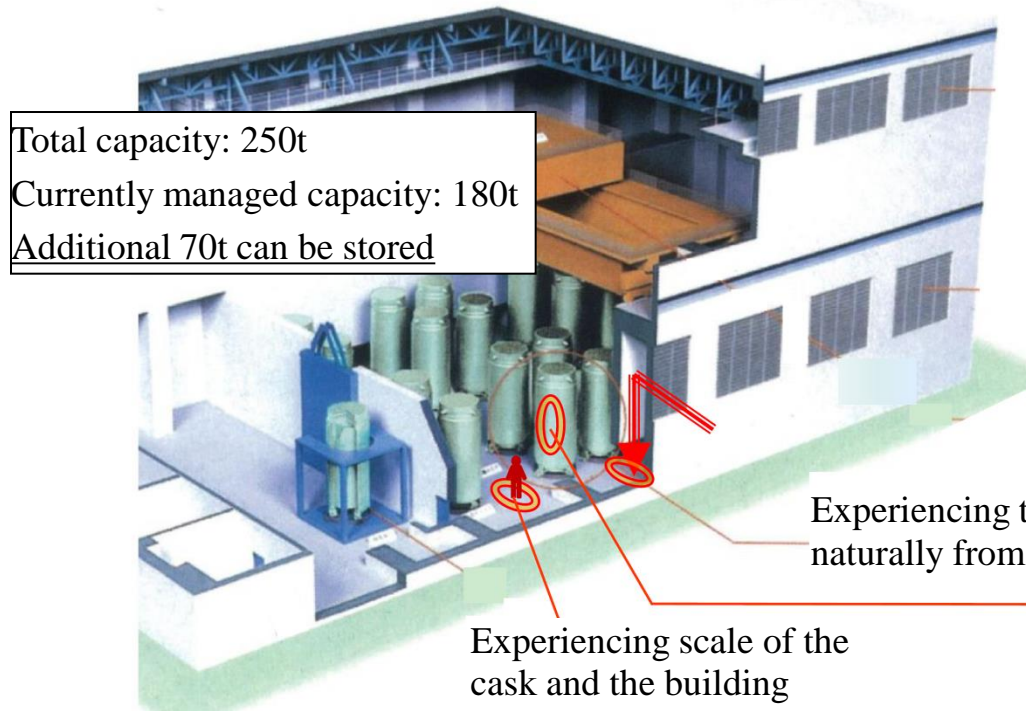


Schematic drawing of re-racking

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)

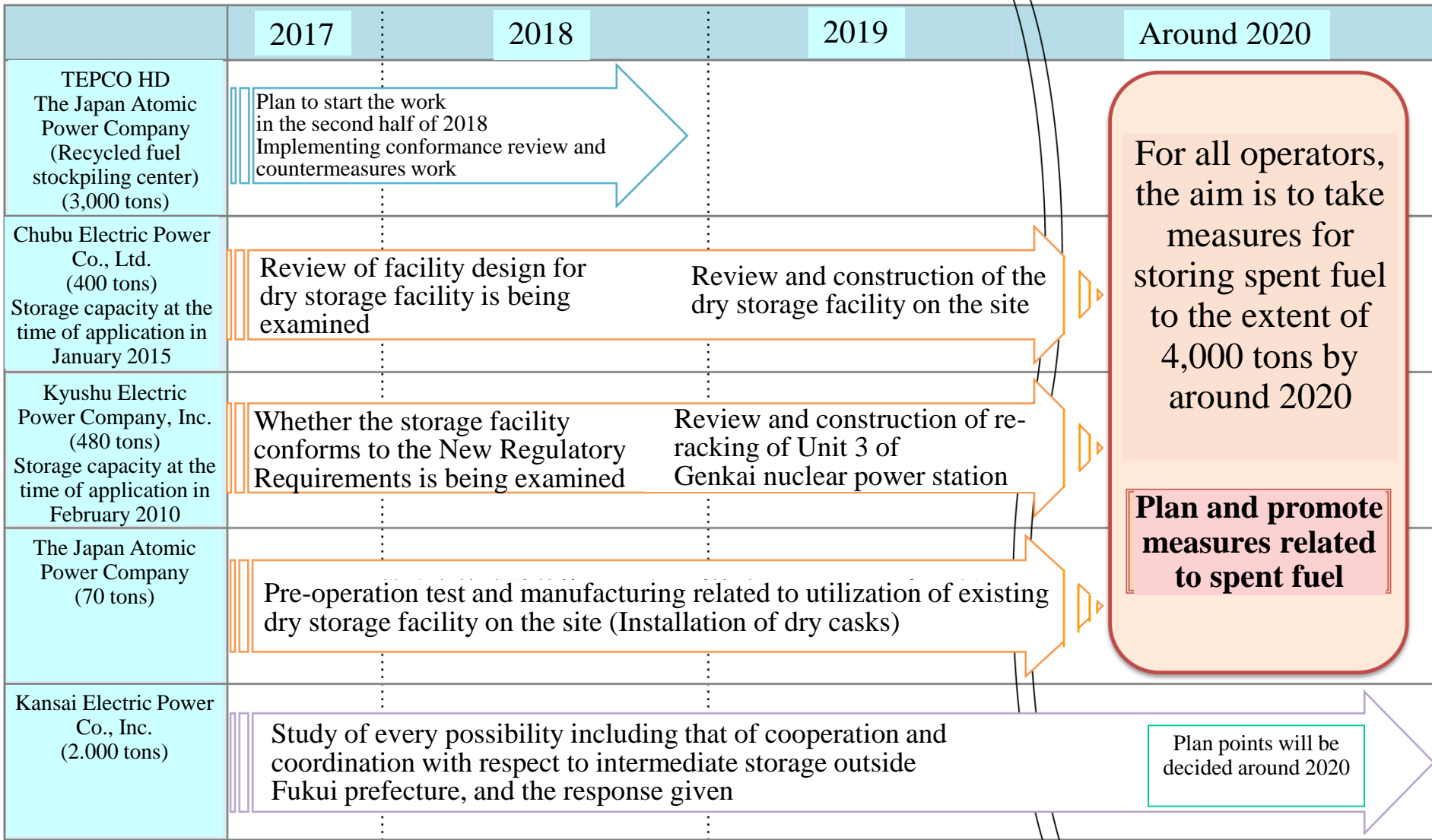


- Working on carefully explaining the mechanism of dry storage and safety functions and activities to understand the same.
- Actually feeling the safety of dry storage through the experience of natural convection cooling of cask by air.

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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