Investors Meeting for
FY2018 2Q Financial Results

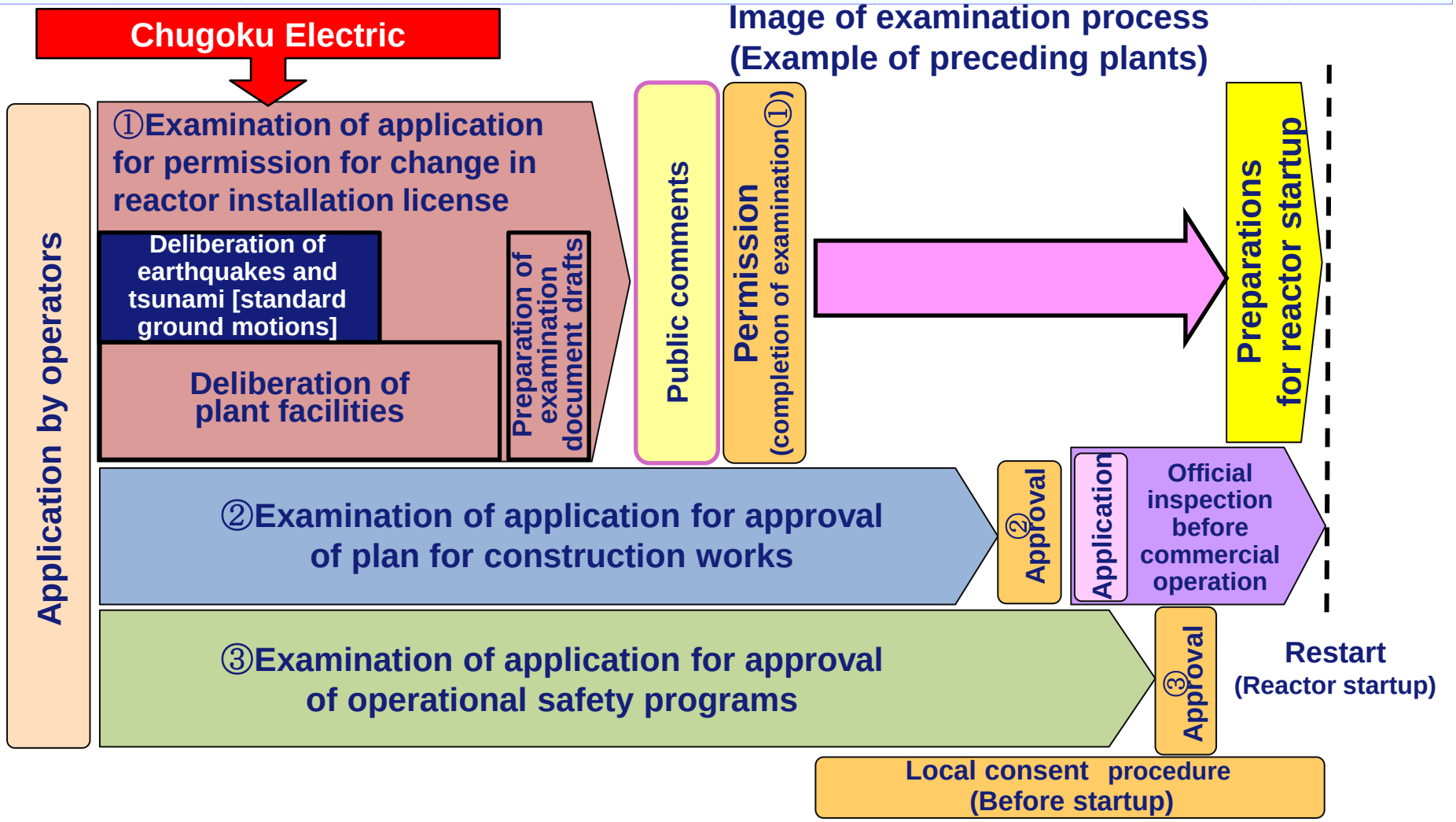
State of Shimane Nuclear Power Station

November 8, 2017

The Chugoku Electric Power Co., Inc.

1. Process of Compliance Examinations

- In December 2013, we submitted application documents for compliance verification of Shimane Unit 2 to the Nuclear Regulation Authority (NRA).
- The examinations to verify compliance began in January 2014. As of the end of October this year, a total of 87 examinations have been conducted.



2. State of Progress of Compliance Examinations [Shimane Unit 2: Plant-related]

■ No change regarding plants since half a year ago.

	Main examination items	Examination status	Outline of examination	♦ Examination status ★ Chugoku Electric's assessment
Countermeasures for severe accidents	Probabilistic risk assessment (PRA)	Being implemented	Quantitative assessment of the probability of the reactor core being damaged and leading to a severe accident, and assessment of efficacy of countermeasures for a severe accident, etc.	♦ Explained the probabilities of damage to the reactor core and rupture of the containment vessel due to internal/external events
	Selection of accident sequences	Being implemented		♦ Explained the accident scenarios selected on the basis of the PRA results
	Efficacy assessment	Being implemented		♦ Explained that the severe accident countermeasures are effective for the accident scenarios selected.
	Analytical codes	Being implemented		♦ Explained the adequacy of the analytical programs used in the PRA and efficacy assessment
	Reactor control room	Being implemented	Matters relating to assessment, etc., of radiation exposure in the event of an accident	♦ Assess as 44 mSv in 7 days
	Contingency measure center	Being implemented		♦ Explained about power supply equipment, radiation exposure assessment, operation methods, etc.
	Filtered vent equipment	Being implemented	Matters relating to the equipment's design, specifications, performance and operation methods	♦ Explained the adequacy of the design policy, specifications, performance and operation methods.
Countermeasures for design basis accidents	Interior inundation	Being implemented	Assessment and countermeasures, etc., regarding newly-added natural disasters	♦ Explained the impact assessment and countermeasures for interior inundation
	Fire	Being implemented		♦ Explained about the impact assessment of exterior and interior fires.
	Tornados (impact assessment and countermeasures)	Being implemented		♦ Explained that we are assessing for maximum wind speed 92 m/s (original application: 69 m/s)
	Volcanoes (impact assessment and countermeasures)	Being implemented		♦ Explained that we have reassessed for Mt. Sanbesan and Mt. Daisen. [approx. 30 cm of volcanic ash (original application: approx. 2cm)]
	Single failure of passive system	Being implemented		♦ Explained that passive systems have been identified and will be able to maintain their safety functions
	Protective power supply equipment	Unimplemented		★ Assess reliability of external power supplies
Others	Specialized safety facility	Being implemented	Anti-terrorist measures, etc.	♦ Explained the outline of the application

2. State of Progress of Compliance Examinations [Shimane Unit 2: Earthquake and Tsunami]

- " Earthquake ground motion determined with identifying the hypocenter " which is a prerequisite for the standard ground motion assessment, is currently under examination.
- The examination gathering about changes to the seismic design classifications has not been held since July 2016.

	Main examination items	Examination status	Outline of examination	♦ Examination status ★ Chugoku Electric's assessment
Earthquake	Earthquake ground motion determined without identifying the hypocenter	Completed	Matters relating to standard ground motions regarded as needing to be considered for the power station	♦ Explained that Rumoi and Western Tottori Prefecture Earthquakes will be taken into account
	Earthquake ground motion determined with identifying the hypocenter	Being implemented		♦Explained that, based on the results of surveys up until now we revise the eastern end of Shinji Fault from Shimoubeohigashi to the east shore of Mihonosekicho, and the evaluated length from approx. 25km to approx. 39km. ♦Explained that the Shinji Fault and Tottori Offshore Western Fault are not linked. ♦ Explained the ground motion assessment for the Shinji Fault and the seaward fault.
	Subsurface structures of the site and surroundings	Completed		♦ Explained adequacy of subsurface structure models
	Standard ground motions	Unimplemented		★Will set Ss-D (800 gal), etc.
	Seismic design policy	Being implemented	Matters relating to assessment of the equipment with regard to the standard ground motions	♦ Explained the proposed revisions for changes to the seismic design classifications
	Geology and geological structure of the site	Completed	Matters relating to the ground inside the power station site	♦ Explained that there are no fracture zones, active faults or the like
	Stability of ground and inclines	Unimplemented		★Assess that they are safe
Tsunami	Standard tsunami	Being implemented	Matters relating to tsunamis regarded as needing to be considered for the power station	★Set at 10.5 m
	Anti-tsunami design policy	Unimplemented		★Assess that safety can be maintained (15 m breakwater and watertight doors installed)

3. Flow of Examinations Pertaining to Standard Ground Motions

- **Establishing the standard ground motions involves assessing the subsurface structures, "earthquake ground motion determined with identifying the hypocenter", and "earthquake ground motion determined without identifying the hypocenter", in the site, then selecting the ground motions that are to be envisioned as occurring at the power station.**

[Examination items]

Assessment of earthquake ground motion determined without identifying the hypocenter [Completed]	Assessment of earthquake ground motion determined with identifying the hypocenter [Being examined]	Assessment of subsurface structures [Completed]

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Decisions on standard ground motions

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Reflection in application for approval of construction plans

4.Examination Status of Assessment of Earthquake Ground Motion Determined with Identifying the Hypocenter

■In January 2016, We explained to revise the length of Shinji Fault from approx.22km to approx.25km.

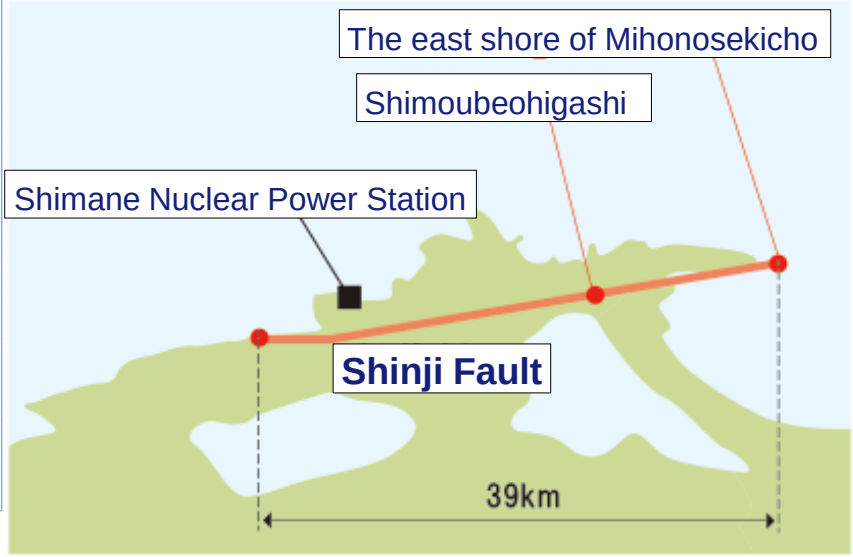
■In February, We explained the deliberations of revising the standard ground motion from 600 gal to 800gal.

The national Headquarters for Earthquake Research Promotion announced their long-term assessment of active faults in the Chugoku Region, etc.

- In the examination gathering held in July of this year, We explained to revise the length of Shinji Fault from approx.25km to approx.39km

- At the September examination gathering, we explained that the Shinji Fault and the Tottori Offshore Western Fault at the east side of the Shinji Fault are not linked.
- The Nuclear Regulation Authority has commented, ” Generally valid.”

- In the 27th October examination gathering, we explained prerequisites for establishing the standard ground motions.
- The Nuclear Regulation Authority has commented, ” It is necessary to explain the understanding for the occurrence of an earthquake at the Shinji Fault and the inclination of seaward faults at the site, having shown data that is evidence. Furthermore, the written content should be expanded and optimized. ”



- We will respond to this comment.
- We understand that, when this is approved, we will undergo the examination on standard ground motions.

5. State of Safety Measure Works

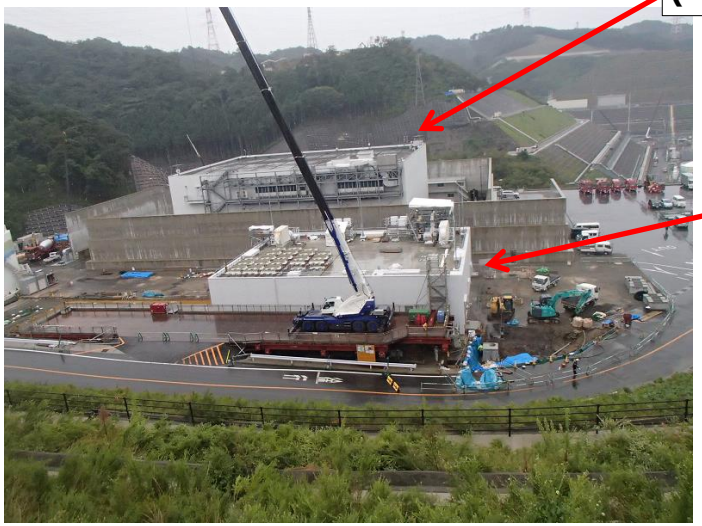
■ **We revised the scheduled completion date for safety measure works into "as early as possible in FY2019 (between April 1, 2018 and March 31, 2019) ".**

< The reason for revision of the scheduled completion date >

➢ **After determining the standard ground motions, we may perform additional construction as necessary to ensure the facilities' earthquake resistance, etc.**

< State of safety measure works >

The seismic isolated important building (complete in October, 2014)



The emergency response facility

The emergency response facility (As of September 2017)

The gas turbine generator (As of September 2017)

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