いいことプラス Energia

Investors Meeting for FY2014-2Q Financial Results

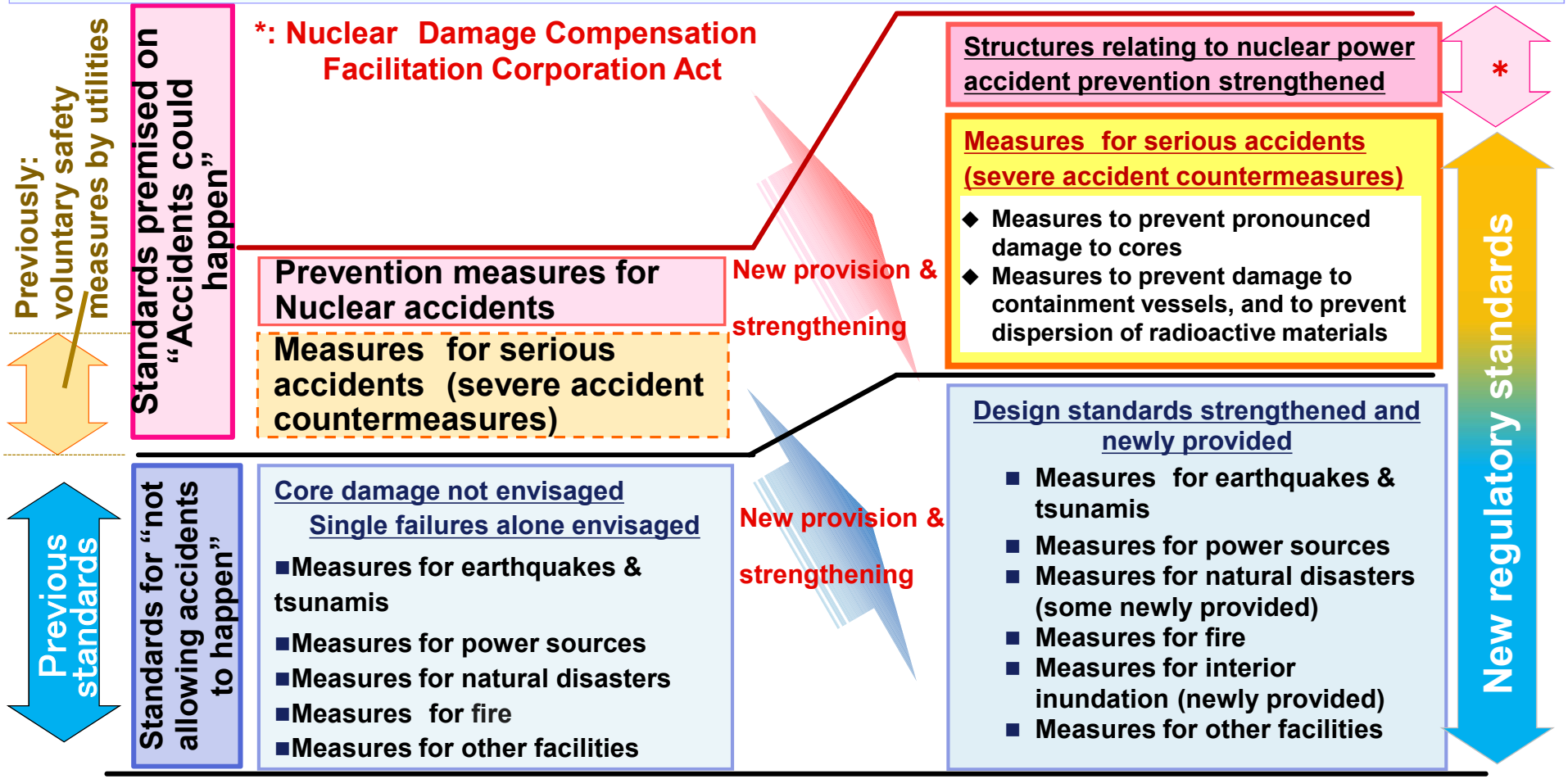
State of Shimane Nuclear Power Station

November 11, 2013

The Chugoku Electric Power Co., Inc.

1. Basic approach of the new regulatory standards

- Under the new regulatory standards for nuclear power, measures are drastically strengthened
  - "Standards for not allowing accidents to happen" are strengthened ⇒ Measures to deal with earthquakes, tsunamis, natural phenomena, fire, interior inundation
  - Measures based on the premise that "Accidents could happen"
    - ⇒ New provision of measures to deal with serious accidents (severe accident countermeasures)



2. State of responses to new regulatory standards

- **At Shimane Nuclear Power Station, emergency safety measures for tsunamis, etc., have been completed.**
- **For Shimane Units 2 and 3, construction work, and documents for applications to the government, are under preparation in response to the new regulatory standards.**
- **For Shimane Unit 1, responses to the new regulatory standards, including the 40-years operation regulation, are under deliberation.**

<table>
<tr><th></th><th>Unit 1</th><th>Unit 2</th><th>Unit 3</th></tr>
<tr><td>Years of operation
（as of Nov. 2013）</td><td>39</td><td>24</td><td>Under construction</td></tr>
<tr><td>Emergency safety measures</td><td colspan="3">Completed
■ Breakwaters constructed (along entire seaward periphery)
■ Waterproofing measures for building exterior walls
■ Substitute water-pouring means assured
■ Power sources assured - such as high-voltage generator trucks</td></tr>
<tr><td>Responses to new regulatory standards</td><td>■ Report to government on advanced aging countermeasures (necessitating cold shutdown, in Sep. 2013)
■ Other responses, including those to the 40-years operation regulation, under deliberation</td><td colspan="2">Compliance applications under preparation
■ Vent equipment with filters (scheduled for completion during FY2015)
■ Other measures (scheduled for completion within FY2014)
■ Construction work to enhance seismic margins (voluntary measures)</td></tr>
<tr><td>Response measure construction (common for Units 1-3)</td><td colspan="3">■ Important Equipment Aseismic Building (scheduled for completion within FY2015)</td></tr>
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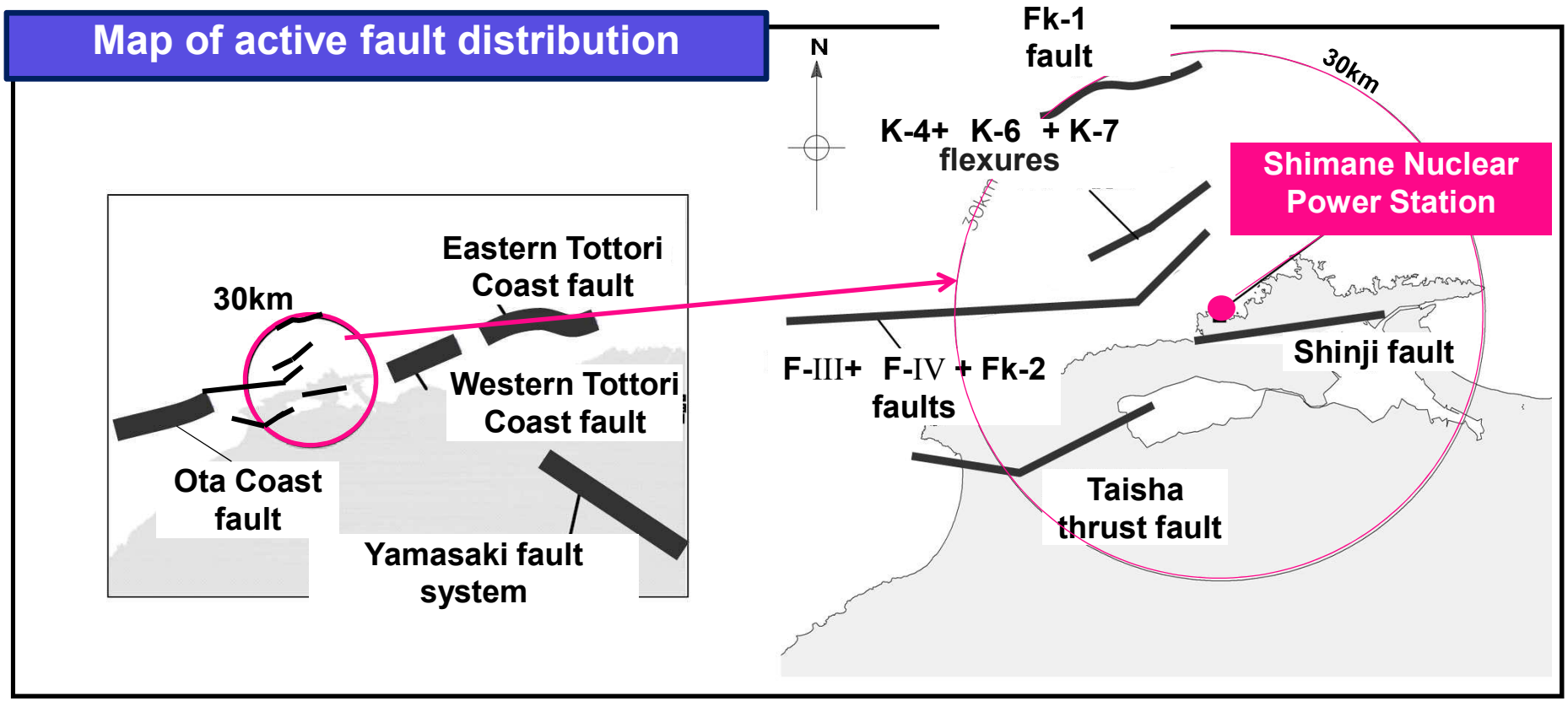
3. Earthquake evaluation – Aseismic capabilities

- No active faults or crush zones have been found within the Shimane Nuclear Power Station site.
- The former Nuclear and Industrial Safety Agency gave the opinion that there is no problem with the clayey weak geological stratum (seam) that is present within the site.
- It can be clearly negated that there has been any activity in the faults around the power station since about 120,000 to 130,000 years ago. → There is no need for assessment of active faults going back to 400,000 years ago.

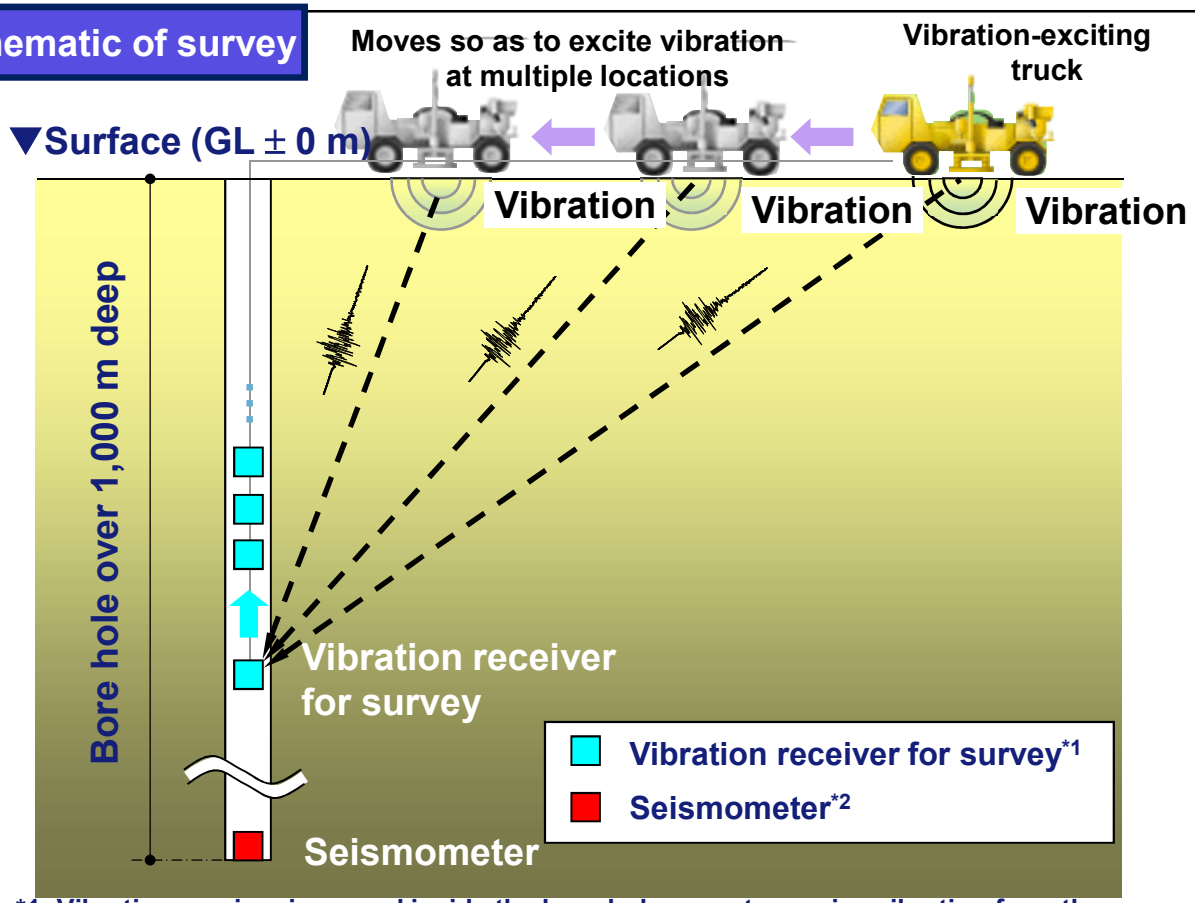
Map of active fault distribution



(Reference) Summary of 3-dimensional subsurface structure survey – Aseismic capabilities

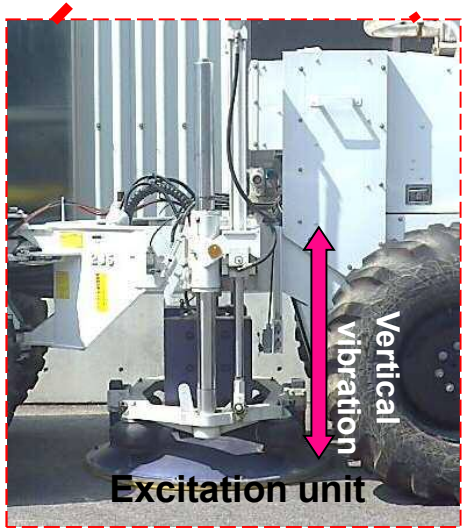
- A subsurface structure survey and work to install seismometers are underway, with the objective of enhancing the seismic observation system. (Scheduled for completion within FY2013.)
  - Subsurface structure survey: Boring to depths of over 1,000 m is being carried out. The bore holes will be used to conduct the structure survey.
  - Observation system enhancement: Seismometers will be installed deep below the surface.

Schematic of survey



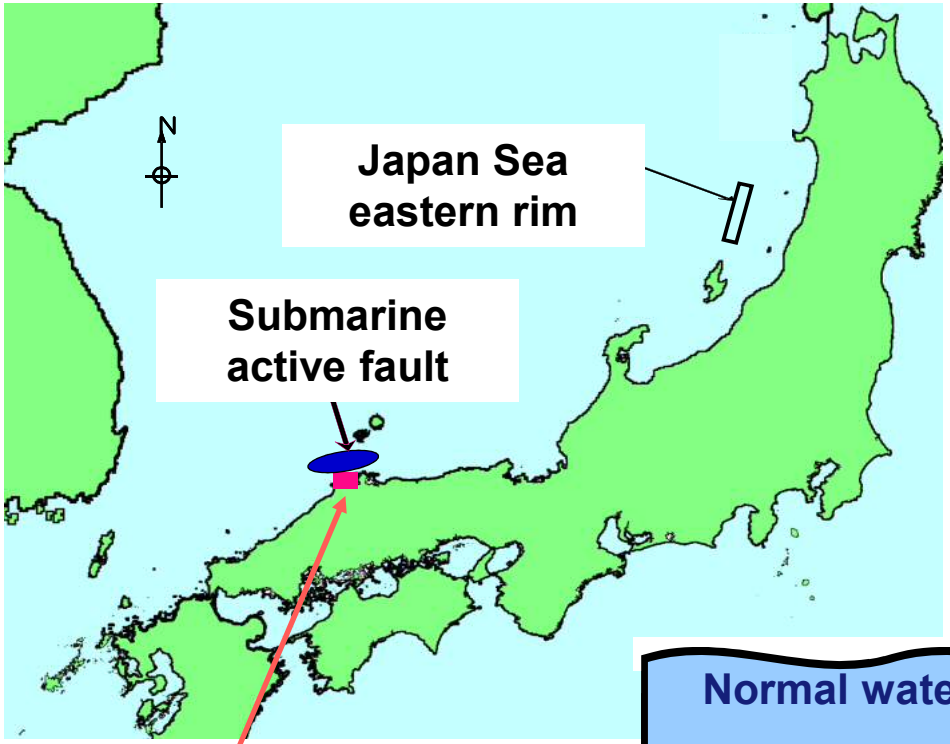
*1: Vibration receiver is moved inside the bore hole so as to receive vibration from the vibration-exciting truck.
*2: After the survey is completed, a seismometer will be installed at the bottom of the bore hole and used for seismic observation.

Overall view of vibration-exciting truck



4.Tsunami evaluation – Tsunami resistance capabilities

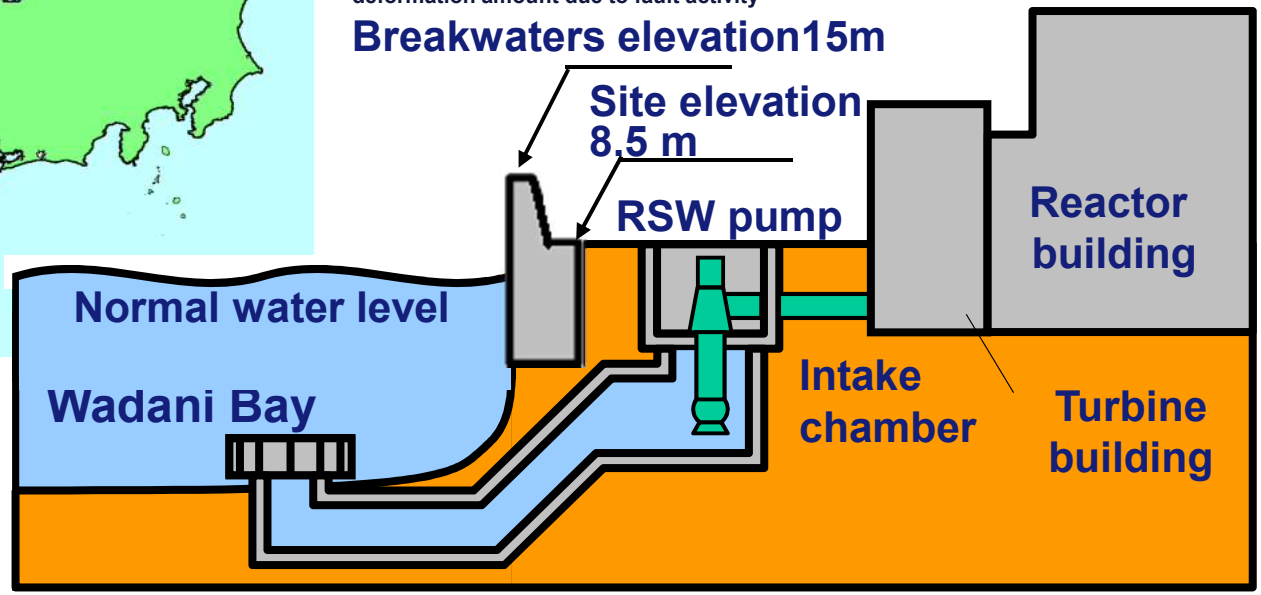
- A standard tsunami height has been determined (currently under partial evaluation) based on the new regulatory standards.
- Breakwaters that exceed the standard tsunami height have been installed, and it is currently being verified that even in the event of backwash, the minimum level for water intake will be exceeded in the intake layer.



Highest sea levels along facility coast*

	Units 1 & 2	Unit 3
Japan Sea eastern rim	Under assessment	Under assessment
Submarine active fault	EL6.5m	EL9.2m

* The sea levels are the tsunami height with account additionally taken of the ground deformation amount due to fault activity



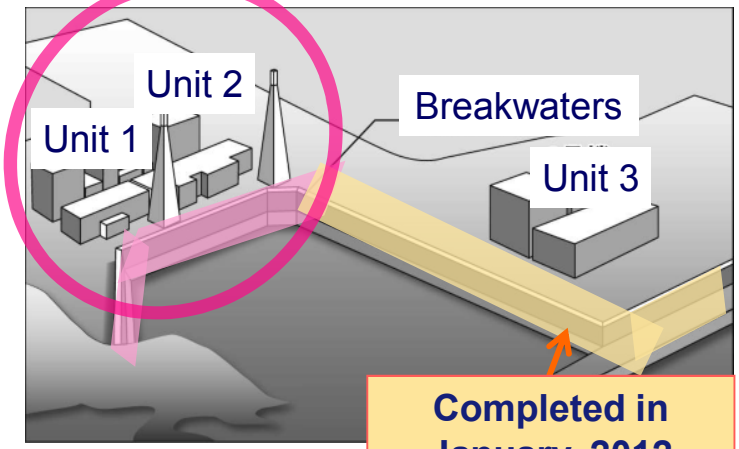
(For reference:) Breakwaters – Tsunami resistance capabilities

■ The Unit 1&2 area breakwater was completed in September 2013, thereby completing the breakwaters in all the areas.

Unit 1&2 area

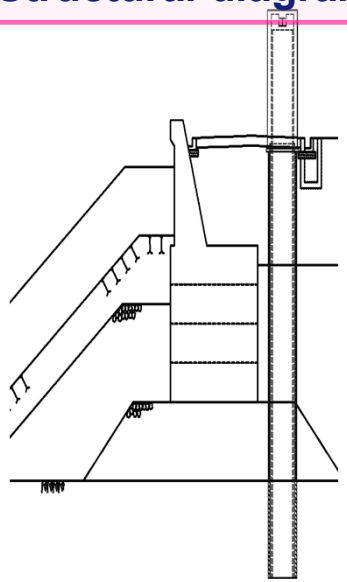
Before the work

After completion



Completed in January, 2012

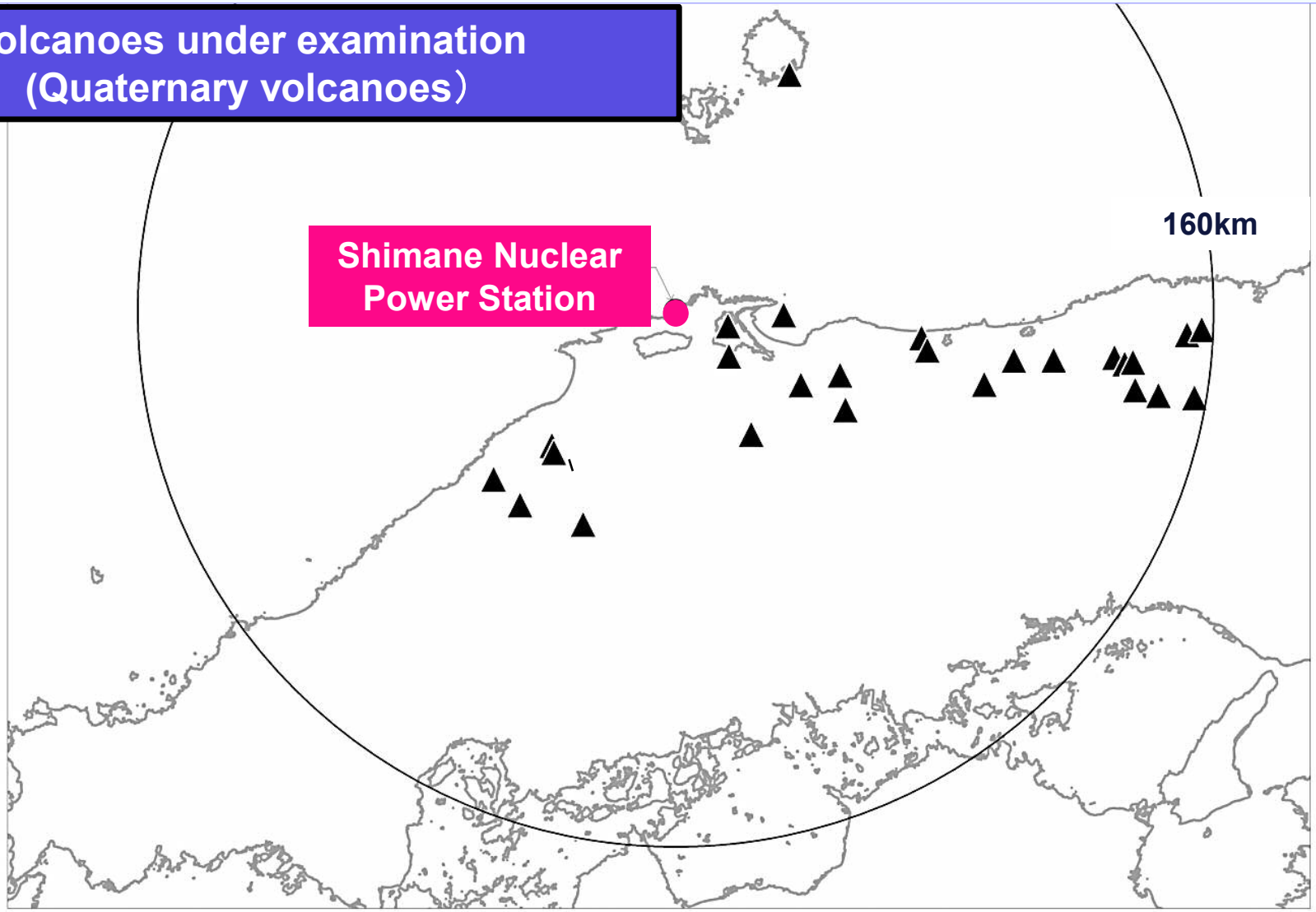
Structural diagram



5. Volcano assessment – Measures to cope with other natural disasters

■Currently, the volcanoes that could exert impacts on the power station are being identified, and individual assessment concerning volcanic activity (impacts of volcanic ash, etc.) is being carried out.

Volcanoes under examination (Quaternary volcanoes)



(For reference:) Vent Equipment with Filter – Measures to deal with serious accidents

■We are excavating the planned installation sites, aiming to complete installation during FY2014.

Construction of equipment for Unit 2

Outline of the vent equipment with filter

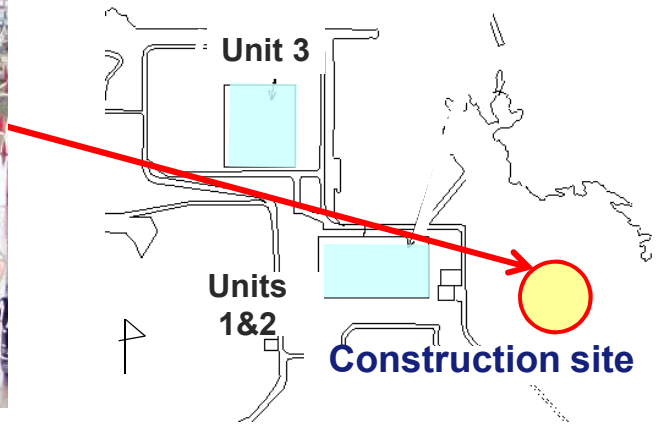
1. Main data of the vent equipment with filter unit
   Units to be installed: 4 units
   Removal efficiency: 99.9% (particulate radioactive material)
2. Rough dimensions of the containment basin for the vent equipment with filter units
   Approx. 13 m wide by approx. 25 m long by approx. 12 m high

(For reference:) Important Equipment Aseismic Building - Measures to deal with serious accidents

■ We are currently carrying out the work of installing aseismic apparatuses in the building's foundations , aiming to start operation of the facility within FY2015.

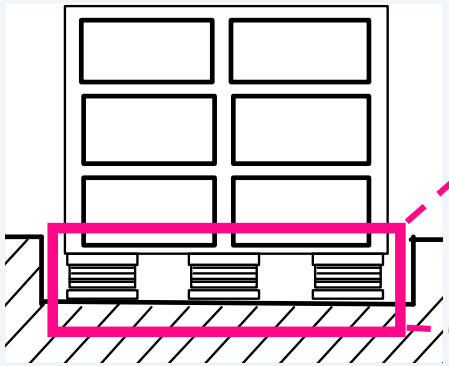
Panoramic view of construction work

Rendering of completed facility



Mechanism of aseismic structure

Aseismic apparatuses are provided between the foundations and the body of the building, to lessen swaying of the building during earthquakes



An aseismic apparatus

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