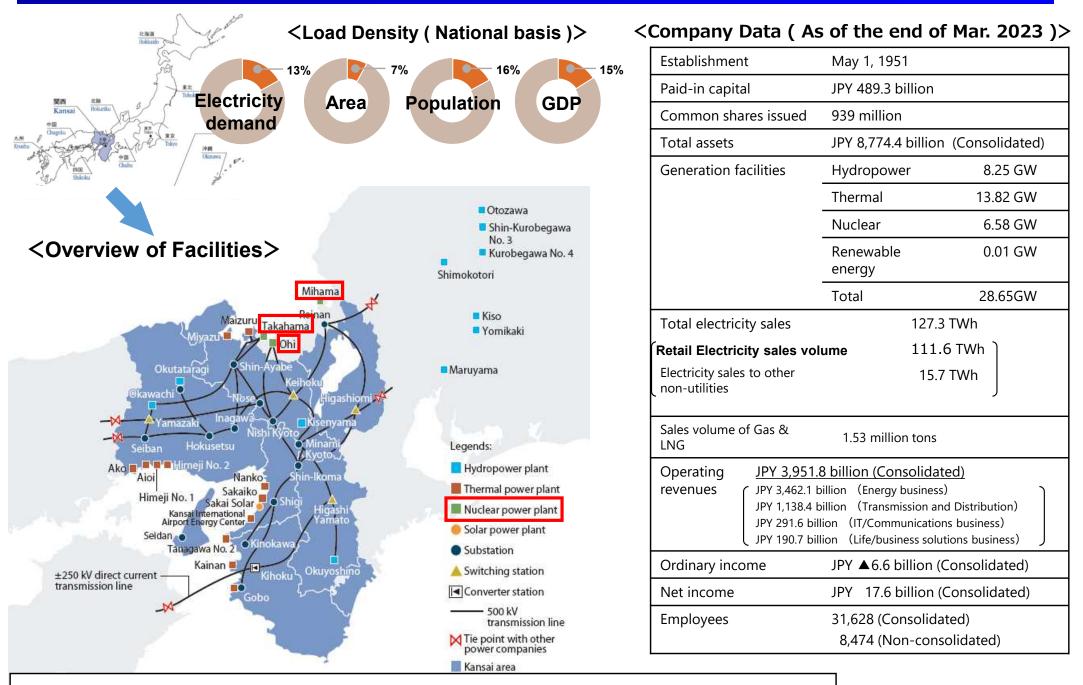
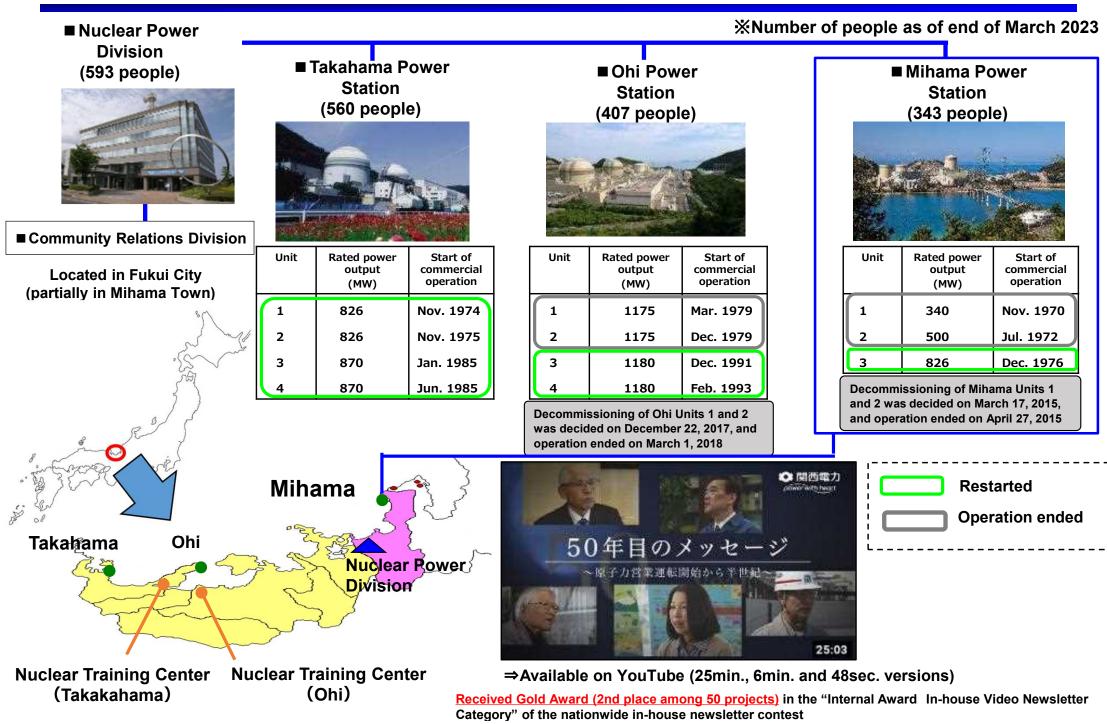
Overview of Mihama Power Station

Company Overview



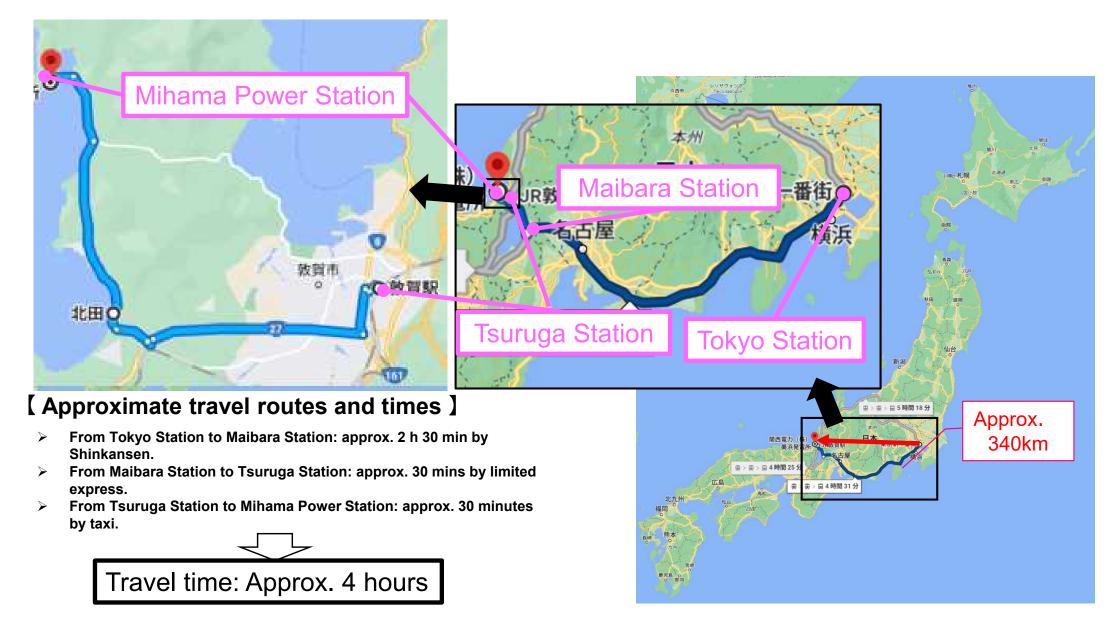
[Reference] Renewables Facilities [including facilities other than in Kansai Area] -Solar 188 MW, Wind 24 MW, Biomass 257 MW

Nuclear facilities of Kansai Electric Power

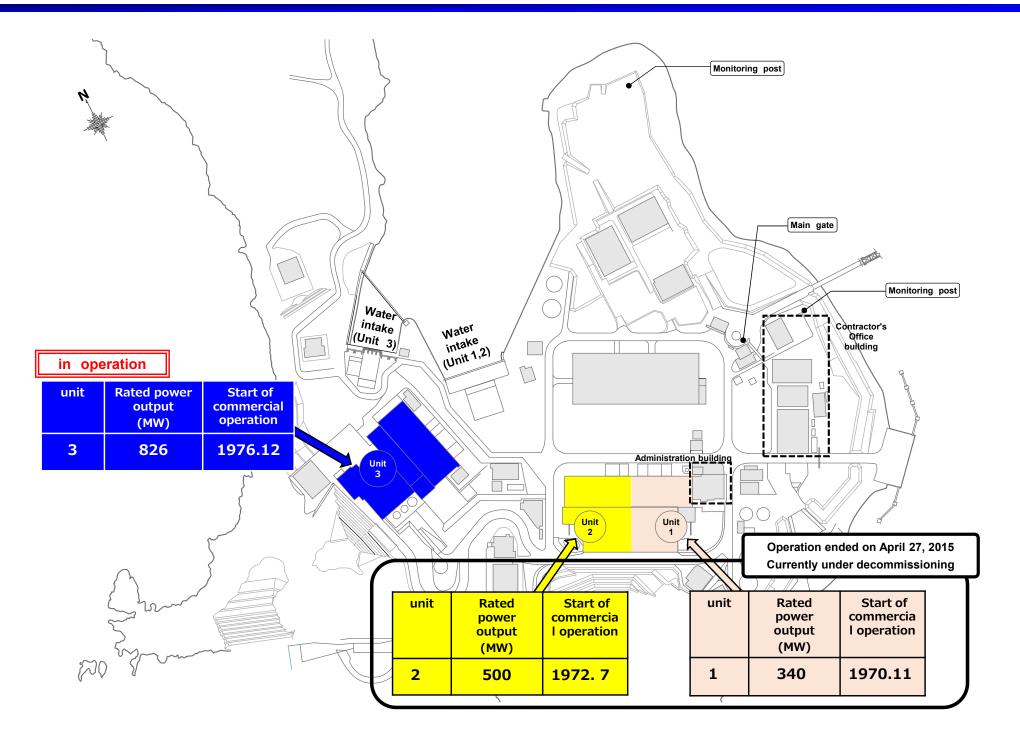


Mihama Power Station is located in Mihama Town, Fukui Prefecture, which is approximately 340 km west of Tokyo along the coast of the Sea of Japan.

The area of Mihama Power Station is approximately 0.52 square-kilometers.



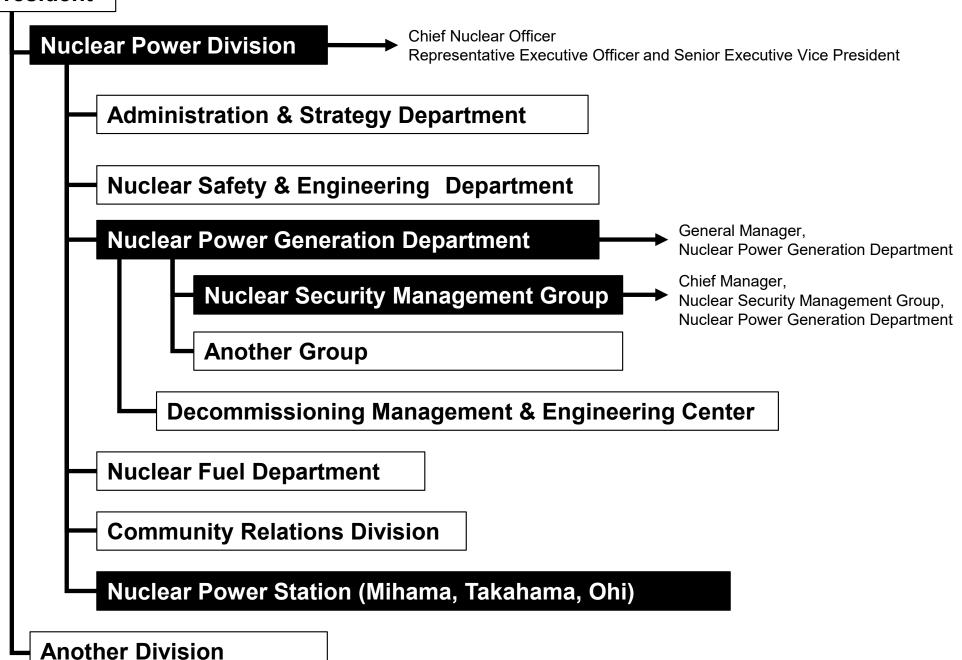
Layout of Mihama Power Station



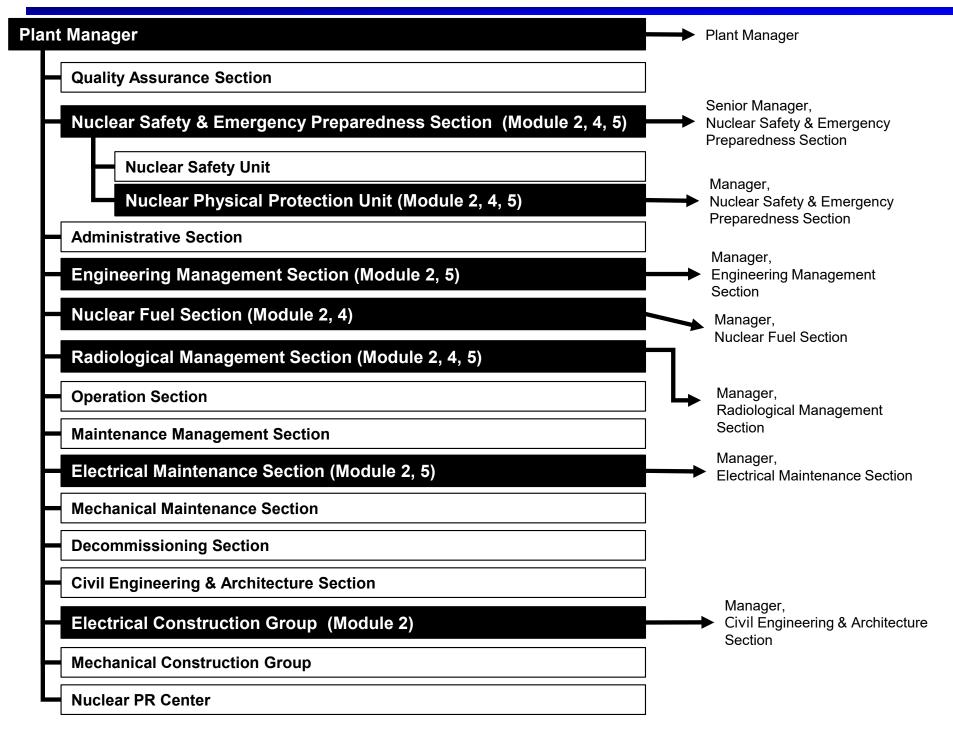
Organization Chart of KANSAI Electric Power Co., Inc.

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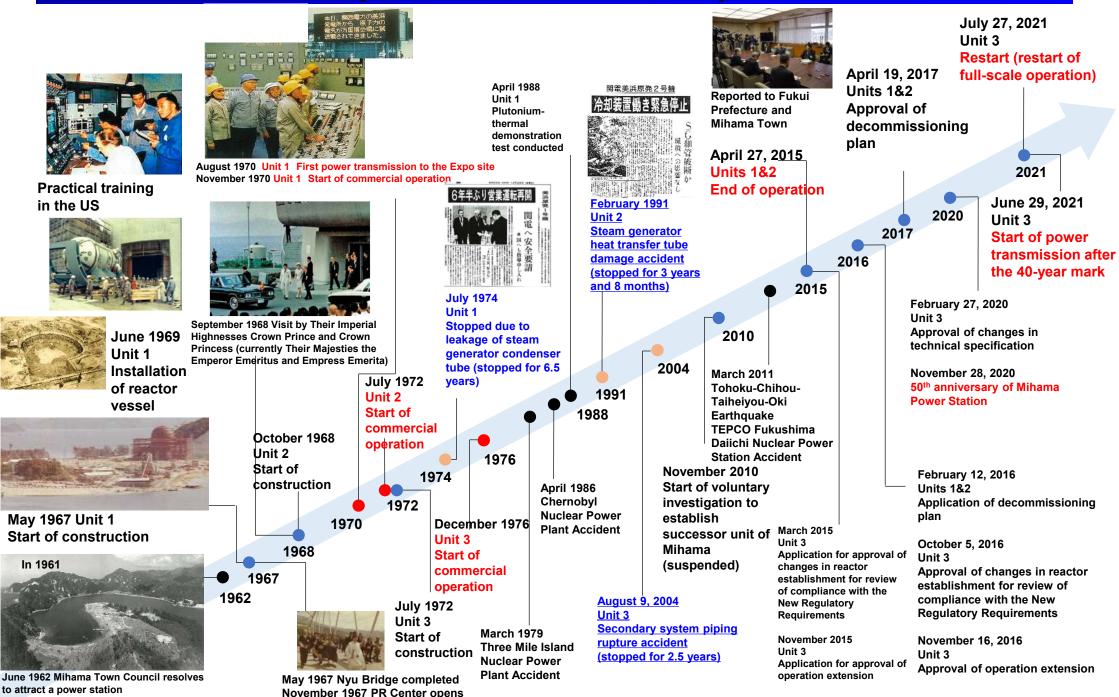
President



Organization Chart of Mihama Power Station



History of Mihama Power Station <u> ~Pioneer of pressurized water reactor power station</u>

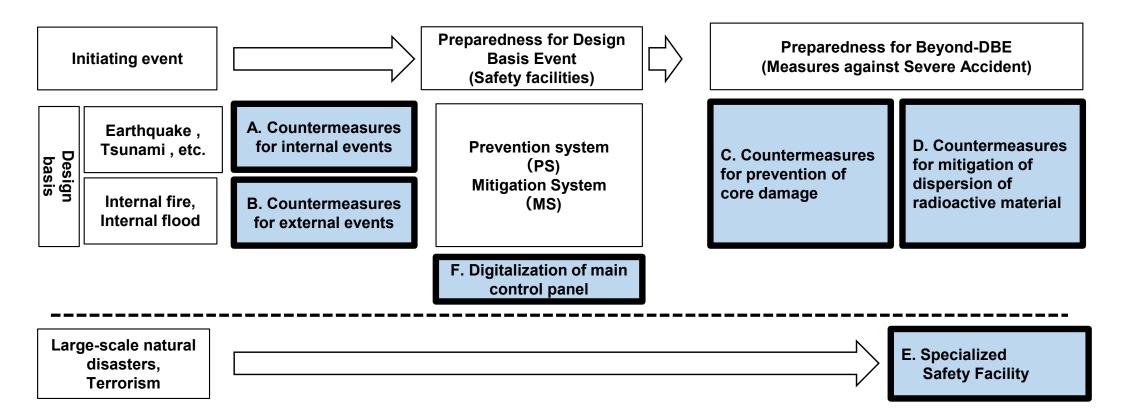


November 1962 Construction in Nyu area is determined

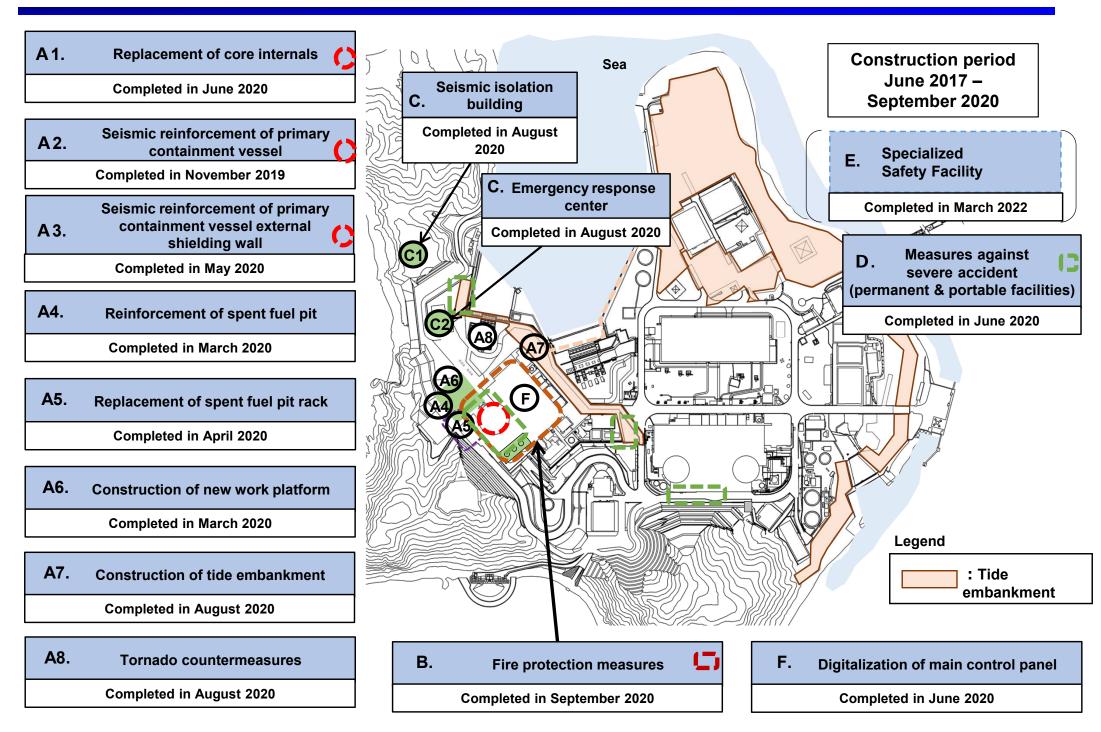
7

Efforts for safety improvement measures at Mihama Unit 3

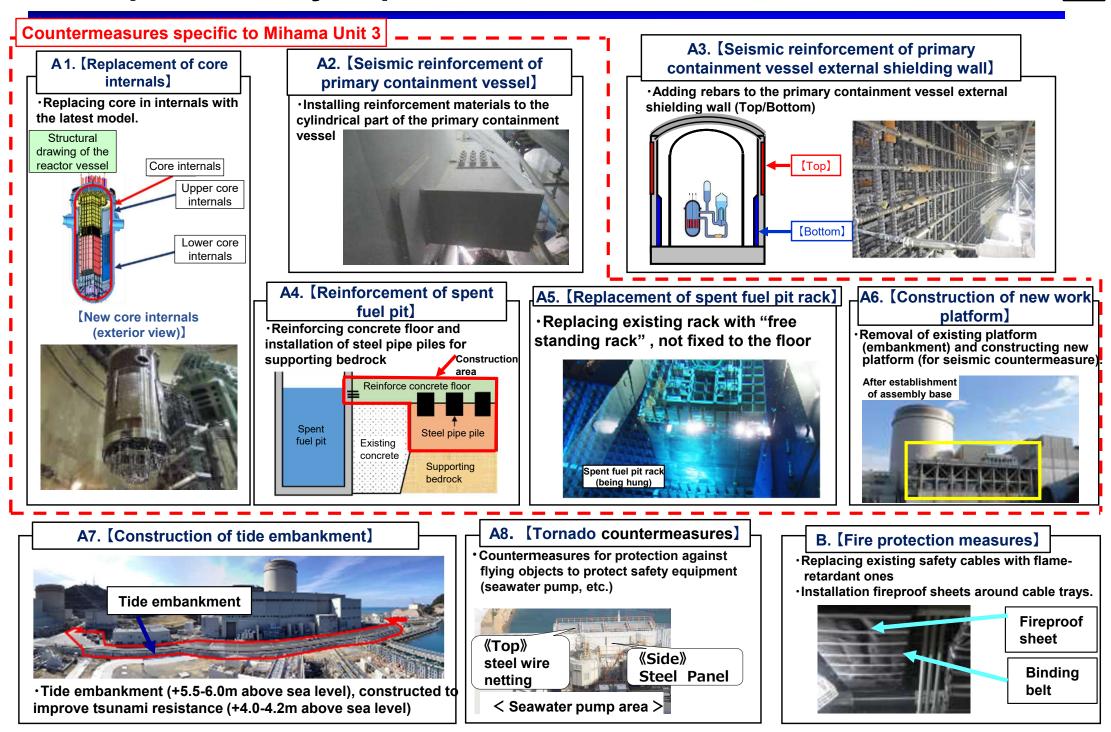
- In July 2013, NRA enforced new regulatory requirements based on lessons learned from the accident at the Fukushima Daiichi Nuclear Power Plant.
- In order to comply with the regulatory requirements and voluntary safety improvement initiatives, countermeasures for external/internal events (A/B), prevention (C) and mitigation (D) of severe accidents were installed. Furthermore, "Specialized Safety Facility".(E) for beyond-design-basis natural disasters and terrorism were also constructed. In addition, the main control panel was digitalized (F) for keeping procurement as a voluntary initiative.



Major safety improvement measures at Mihama Unit 3



Example of safety improvement (A/B. Reinforcement for external/internal events) 10



Example of safety improvement (F. Digitalizing main control panel)

The main control panel was replaced from analog panel to the state-of-the-art digital panel, which allows operation and monitoring with touch-panels. The large wall panel was also installed.



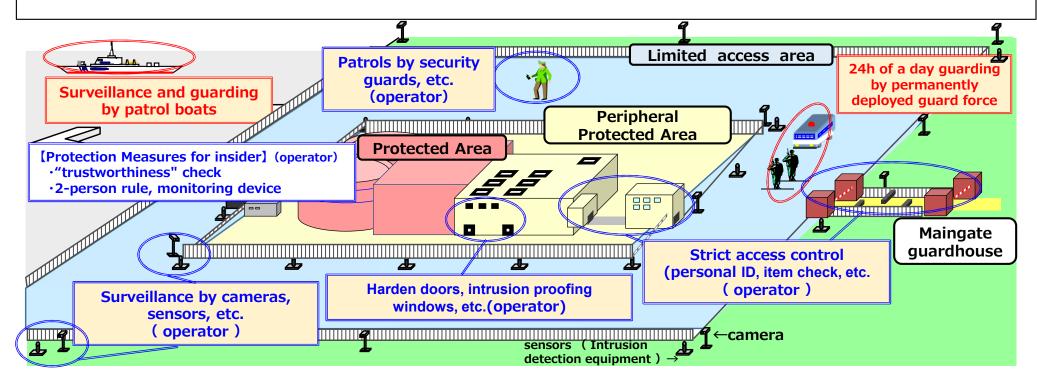
12

The main features of nuclear security measures for restarted plants are as follows:

- Expanding the equipment to be protected Not only nuclear materials and safety facilities, "Specialized Safety Facility" were added.
- "3S (<u>Safety</u>, <u>Security</u>, <u>Safeguards</u>) " Mutual impact assessment "3S" measures shouldn't adversely affect each other.
- Nuclear security management to ensure that numerous security measures are maintained
- RI protection in cooperation with nuclear materials protection measures
- Cyber security measures for digital safety systems and physical protection systems

Measures for Physical protection (Mod. 2)

- To prevent the facilities from theft of nuclear materials, illegal transfer and sabotage by external threats, barriers around "Limited access area", "peripheral protected area" and "protected area" are constructed. At these boundaries, intrusion detection, camera monitoring and patrols are located.
- In the event of unauthorized access, information regarding intrusion detection and camera monitoring are shared with law enforcement authorities in order to assist their response action. Related drills are conducted in cooperation with the authorities.
- Access control, such as personnel identification and item checking, are conducted. As additional protection measures for insider, "trustworthiness" check are conducted, and "2-person" rule is applied within the Protected Area.



The specification of each security measures is decided, after identifying the current plant safety and safeguards profiles and reviewing how the security measures interfere with each profiles.

Following table shows items for reviewing the impacts.

Review item		Example of specific Mutual impact assessment
Impact on measures for external event	Earthquakes	Seismic evaluation for barriers.
	Tsunami	
	Tornadoes	
	External Fires	
Impact on measures for internal event	Internal Fires	Fire load evaluation for sensor and
	Internal Floods	cameras.
Impact on response during design-base incident	Safety Evacuation Passages	Check the impact of aisles for incident activities
Impact on response during severe accident	Access Routes for emergency preparedness	Check the impact to procedures for severe accident prevention and mitigation.
	Work place for emergency preparedness	
Impact on compliance to technical specifications	Requirements of "Operational Safety Programs [※] " ※:Standard Tech. Spec.	Confirm no-impact to "Limiting Condition of Operation"

For maintaining nuclear security, it is essential to foster the nuclear security culture, which is based on the recognition that both organizations and individuals are responsible for nuclear security. Following activities are conducted for nuclear security culture;

- To establish standards for the implementation procedure for nuclear security management.
- To set goal for nuclear security activity, and make the fiscal-year action plan for nuclear security culture and nuclear security measures.
- "Nuclear Security Committee" chaired by the CNO reviews the action plan, its implementation and result of evaluation.
- If any non-conformance matters occurs, they are addressed in accordance with Corrective Action Program (CAP). Furthermore, Nuclear Security Committee also reviews them in case that they are significant events.
- The result of the fiscal-year plan is evaluated based on the nuclear security culture assessment (self-assessment through questionnaires) and the progress of nuclear security measures.
- Nuclear Security Committee and CEO each review the result of the evaluation and areas for improvements.

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Action measures

- 1. Nuclear security culture assessment and planning for the next year.
- 2. Nuclear Security Message from Senior management of NPP.
- Sharing information related to terrorism, etc., and cooperating with contractors, in order to carry out "solid" security activities.

Posting posters and slogans for nuclear security



Examples of mottoes

- 4. Sharing information related to information security.
- 5. Lectures for fostering a nuclear security culture.
- 6. Continuous learning for knowledge of nuclear security.

(including contracted security guards)

7. Dialogue with security guards



Lecture for fostering a nuclear security culture, by Law enforcement agencies (Japan Coast Guard, etc.)

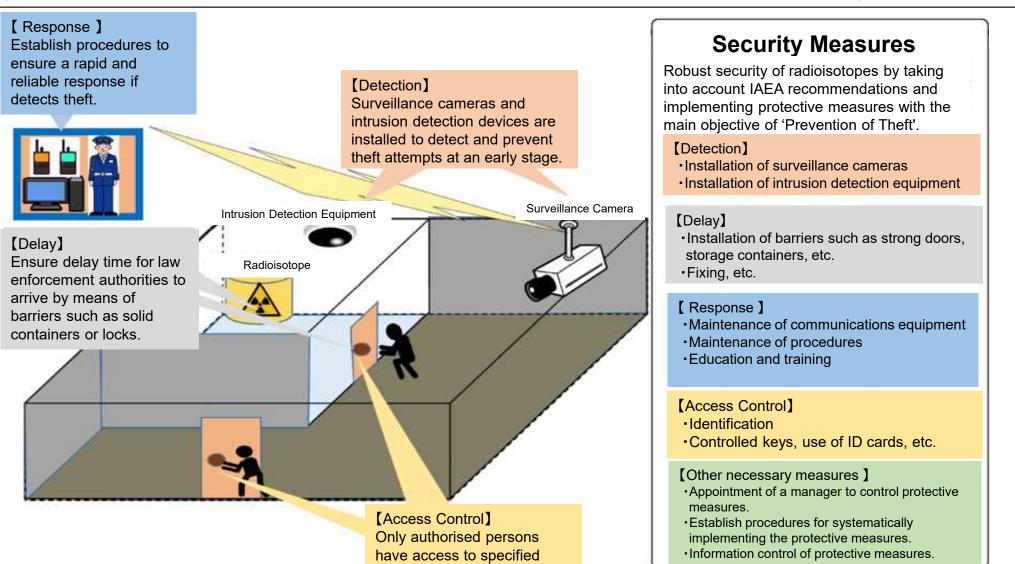


Distributing leaflets for nuclear security

Measures for RI Security in Mihama Power Station (Mod.4)

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In accordance with regulatory requirements, protective and controlled measures to protect radioisotopes (RI) are implemented. Protective measures are taken while utilizing physical protection measures for nuclear material and nuclear facilities as much as possible.

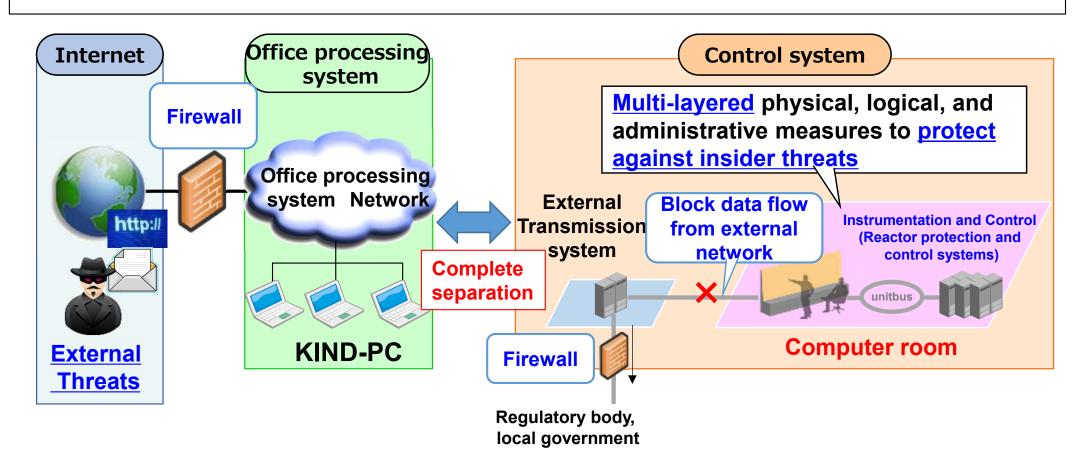


radioisotopes.

Adapted from Nuclear Regulation Authority Material

○In order to protect (safety related) reactor control system and physical protection system from unauthorized access or sabotage through telecommunication lines, the system are designed to reject access from external networks.

OAdditionally, inside computer room, physical, logical and administrative measures are implemented to prevent access to information systems by unauthorized insider.



Thank you



(Details) March 17, 2015,	Announcement of decommissioning of Mihama Units 1&2
February 12, 2016,	Application for approval of the decommissioning plan to the Nuclear Regulation Authority
April 19, 2017,	Approval of decommissioning plan
July 29, 2021,	Application for approval of changes in the decommissioning plan to the Nuclear Regulation
	Authority (review of plan after the second stage)
March 23, 2022,	Approval of changes in the decommissioning plan (review of plan after the second stage)

Mihama Units 1&2 decommissioning plan

