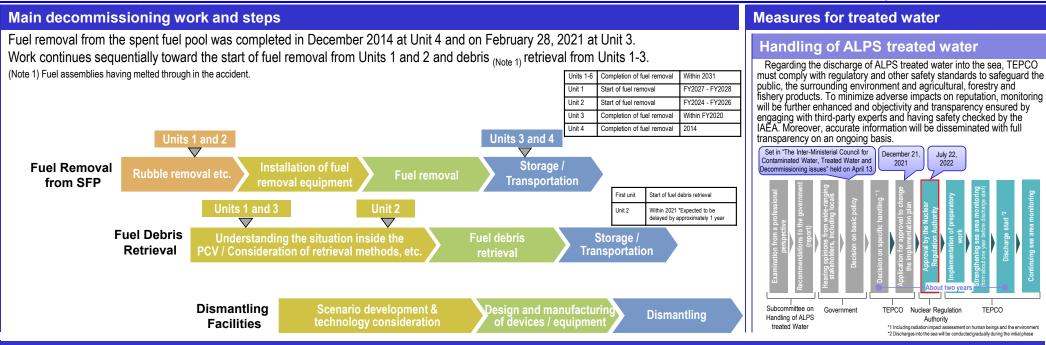
Outline of Decommissioning, Contaminated Water and Treated Water Management Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water Management



Contaminated water management - triple-pronged efforts -

(1) Efforts to promote contaminated water management based on the three basic policies (1) "Remove" the source of water contamination (2) "Redirect" fresh water from contaminated areas

3 "Retain" contaminated water from leakage

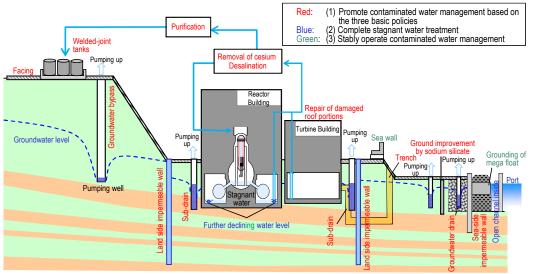
- Strontium-reduced water from other equipment is being re-treated in the Advanced Liquid Processing System (ALPS: multi-nuclide removal equipment) and stored in welded-joint tanks.
- Multi-layered contaminated water management measures, including land-side impermeable walls and sub-drains, have stabilized the groundwater at a low level and the increased contaminated water generated during rainfall is being suppressed by repairing damaged portions of building roofs, facing onsite, etc. Through these measures, the generation of contaminated water was reduced from approx. 540 m³/day (in May 2014) to approx. 130 m³/day (in FY2021).
- Measures continue to further suppress the generation of contaminated water to 100 m³/day or less within 2025.

(2) Efforts to complete stagnant water treatment

- To reduce the stagnant water levels in buildings as planned, work to install additional stagnant water transfer equipment is underway. At present, the floor surface exposure condition can be maintained except for the Unit 1-3 Reactor Buildings, Process Main Building and the High-Temperature Incinerator Building.
- In 2020, treatment of stagnant water in buildings was completed, except for the Unit 1-3 Reactor Buildings, Process Main Building and High-Temperature Incinerator Building. For Reactor Buildings, the amount of stagnant water there will be reduced to about half the amount at the end of 2020 during the period FY2022-2024.
- For zeolite sandbags on the basement floors of the Process Main Building and High-Temperature Incinerator Building, measures to reduce the radiation dose are being examined with stabilization in mind.

(3) Efforts to stably operate contaminated water management

 Various measures are underway to prepare for tsunamis. For heavy rain, sandbags are being installed to suppress direct inflow into buildings while work to close openings in buildings and install sea walls to enhance drainage channels and other measures are being implemented as planned.



Progress Status and Future Challenges of the Mid-and-Long-Term Roadmap toward Decommissioning of TEPCO Holdings Fukushima Daiichi Nuclear Power Station (Outline)

Progress status

The temperatures of the Reactor and the Primary Containment Vessel of Units 1-3 have been maintained stable. There was no significant change in the concentration of radioactive materials newly released from Reactor Buildings into the air. It was concluded that the comprehensive cold shutdown condition had been maintained.

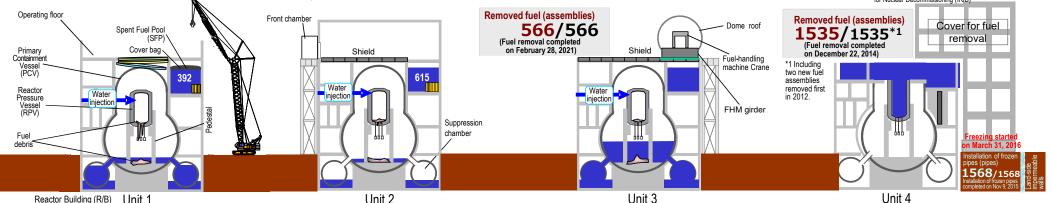
Approval of the Implementation Plan of the basic design and others for the ALPS Treated Water Dilution/Discharge Facility and related facilities

On December 21, Tokyo Electric Power Company Holdings, Inc. submitted the "Application Documents for Approval to Amend the Implementation Plan for Fukushima Daiichi Nuclear Power Station Specified Nuclear Facility" for the basic design of ALPS treated Water Dilution/Discharge Facility and related facilities to the Nuclear Regulation Authority (RNA).

Based on observations by the NRA and the International Atomic Energy Agency (IAEA), TEPCO has reflected these onto revised applications for approval to amend the implementation plan, and it was approved on July 22, 2022.

We will continue to thoroughly implement measures based on the Japanese government's basic policy that will ensure safety according to the implementation plan, provide accurate information based on scientific evidence to parties in Japan and abroad, such as the radiological impact on the public and the environment and strengthen monitoring of radioactive materials. As part of the Unit 1 PCV internal investigation, evaluation of deposit thickness (all 13 points) was completed

In June, the deposit thickness measured by the X-2 penetration (from which Pedesian Lopening State. remotely operated underwater vehicle (ROV) and Approx. 1.4m ROV was inserted) evaluation of all 13 points was completed. ROV 町 Based on the results, it was confirmed that the Powdery and deposit thickness from the bottom of the Primary muddy depos 0° 180° Containment Vessel (PCV) was relatively high near Ħ the pedestal opening and gradually lower as it got Approx, 0.6-1.0m Plate-shaped and massy deposit PCV floor closer to the X-2 penetration from which the ROV was inserted. Information inside the PCV, such as interference, obtained from the investigations to date, was reflected onto the mockup facility of the PCV inside. Deposit thickness from the PCV floor As part of the forthcoming investigation to detect Approx. 0.8-1.1m deposit debris and others, training will be <Status of deposit thickness Collapsed-like deposit Approx. 0.4-0.8m conducted. at the pedestal outer peripheral> Approx. 0.0-0.4m Materials provided by the International Research Institute for Nuclear Decommissioning (IRID



Reactor Building (R/B) Unit 1

To reduce the risks of heavy rain, Drainage Channel D will go into operation within August

To eliminate the risk of heavy rain from an early stage, work to extend Drainage Channel D is underway.

By operating Drainage Channel D, drainage in areas with a low dose on the west side of the site can be conveyed to the inside of the port during rainfall to prevent the existing drainage channel from flooding. Flowing down associated by flooding to around the Units 1-4 buildings can also be prevented.

Preparation such as installing the drainage gate proceeds and the drainage channel is expected to go into operation within August.



<Construction status of Drainage Channel D> (Small diameter propulsion work)

Unit 3

Test to stop Unit 3 reactor water injection was completed

To locate leakage points in the Primary Containment Vessel (PCV) and verify the influence during long-term water injection stoppage, a test to stop the Unit 3 reactor water injection was conducted for the period June 14 - July 19. During the test, no significant increase was detected in the Reactor Pressure Vessel (RPV) bottom temperature, the PCV temperature and others, nor any fluctuation in dust concentration.

During this test, the PCV water level declined almost constantly after the water injection stopped until going below the lowest water level gauge. From this result, the leakage point was assumed to be located below the lowest water level gauge.

The next step will involve assessing the feasibility of installing measurement instruments to a point lower than at present, reducing the water injection rate as part of efforts to reduce the PCV water level and others.

To proceed work more safely according to the plan, work to rearrange the process around the Unit 1/2 Radioactive Waste Treatment Building (Rw/B) is underway

Approx. 1.0m

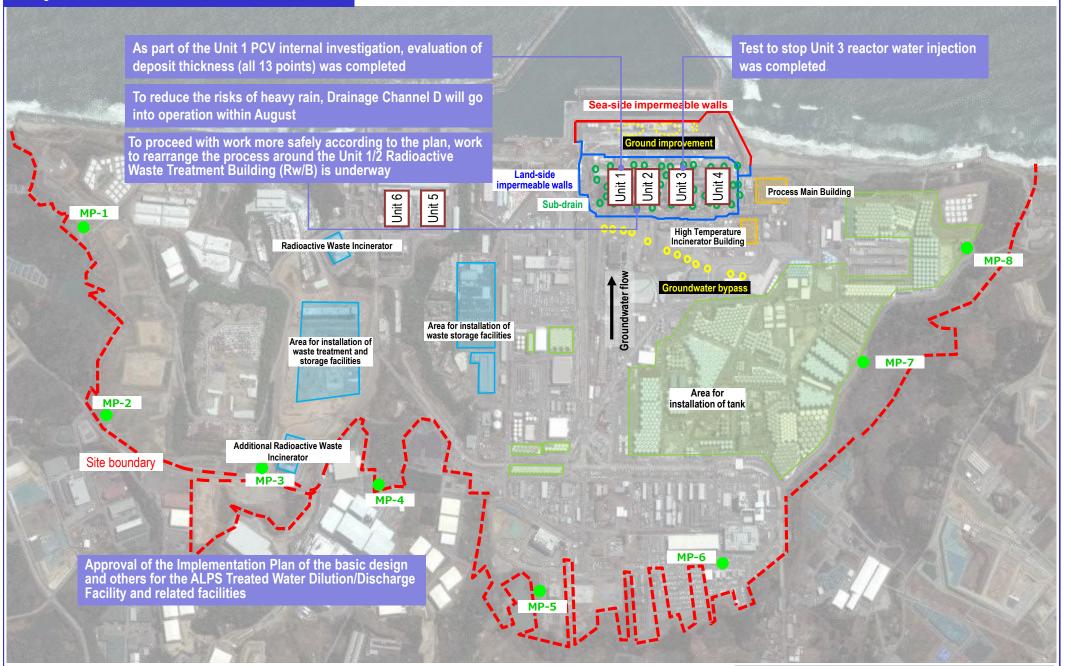
Collapsed

Around the Unit 1/2 Radioactive Waste Treatment Building (Rw/B), as preparation for work to install the large cover over Unit 1, the pipes of the Standby Gas Treatment System (SGTS) and rubble of the Unit 1/2 Rw/B have been removed ahead of schedule.

Previous work involved issues such as the large crane malfunctioning. To ensure work can proceed safely according to the plan, efforts to improve the reliability of large crane will be conducted ahead of schedule.

At the same time, rubble from Unit 1 Rw/B will also be removed to improve the work environment around the Rw/B.

Major initiatives – Locations on site

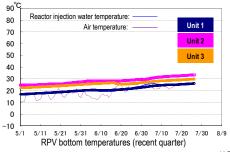


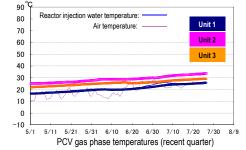
Provided by Japan Space Imaging Corp., photo taken on April 8, 2021 Product (C) [2020] DigitalGlobe, Inc., a Maxar company

I. Confirmation of the reactor conditions

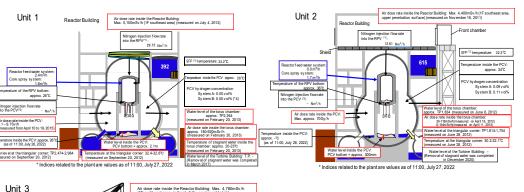
Temperatures inside the reactors

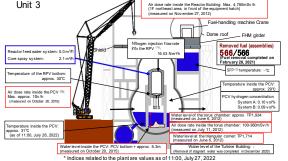
Through continuous reactor cooling by water injection, the temperatures of the Reactor Pressure Vessel (RPV) bottom and the Primary Containment Vessel (PCV) gas phase were maintained within the range of approx. 20 to 40°C for the past month, though it varied depending on the unit and location of the thermometer.





*1 The trend graphs show part of the temperature data measured at multiple points. *2 A part of data could not be measured due to maintenance and inspection of the facility and other work.

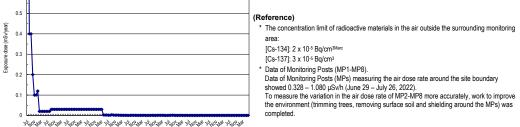




(*1) RPV (Reactor Pressure Vessel) (*2) PCV (Primary Containment Vessel) (*3) SFP (Spent Fuel Pool) (*4) In association with the inspection of the Unit 1 PCV gas control system hydrogen monitor (July 27), measurement was unavailable. The value before the stoppage (as of 5:00, July 27) is indicated.

Release of radioactive materials from the Reactor Buildings

As of June 2022, the concentration of radioactive materials newly released from Reactor Building Units 1-4 into the air and measured at the site boundary was evaluated at approx. 3.0×10^{-12} Bq/cm³ and 2.3×10^{-12} Bq/cm³ for Cs-134 and -137 respectively, while the radiation exposure dose due to the release of radioactive materials there was less than 0.00006 mSv/year.



2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

- Note 1: Different formulas and coefficients were used to evaluate the radiation dose in the facility operation plan and monthly report. The evaluation methods were integrated in September 2012. As the fuel removal from the spent fuel pool (SFP) commenced for Unit 4, the radiation exposure dose from Unit 4 was added to the items subject to evaluation since November 2013. The evaluation has been changed to a method considering the values of continuous dust monitors since FY2015, with data to be evaluated monthly and announced the following month.
- Note 2: Radiation dose was calculated using the evaluation values of release amount from Units 1-4 and Units 5 and 6. The radiation dose of Unit 5 and 6 was evaluated based on expected release amount during operation until September 2019 but the evaluation method was reviewed and changed to calculate based on the actual measurement results of Units 5 and 6 from October.

Other indices

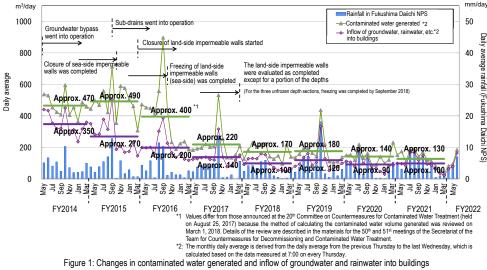
There was no significant change in indices, including the pressure in the PCV and the PCV radioactivity density (Xe-135) for monitoring criticality, nor was any anomaly in the cold shutdown condition or criticality sign detected.

Based on the above, it was confirmed that the comprehensive cold shutdown condition had been maintained and the reactors remained in a stabilized condition.

II. Progress status by each plan

Measures for contaminated water and treated water

- > Status of contaminated water generated
- Multi-layered measures, including pumping up by sub-drains and land-side impermeable walls, which were
 implemented to control the continued generation of contaminated water, suppressed the groundwater inflow into
 buildings.
- After implementing "redirecting" measures (groundwater bypass, sub-drains, land-side impermeable walls and others) and rainwater prevention measures, including repairing damaged portions of building roofs, the amount of contaminated water generated within FY2021 declined to approx. 130 m³/day.



Measures will continue to further reduce the amount of contaminated water generated.

Annual radiation dose at site boundaries by radioactive materials (cesium) released from Reactor Building Units 1-4

- > Operation of the Water-Treatment Facility special for Sub-drain & Groundwater drains
- At the Water-Treatment Facility Special for Sub-drain & Groundwater drains, release started from September 14, 2015 and up until July 18, 2022, 1,914 release operations had been conducted.
- The water quality of all temporary storage tanks satisfied the operation target.

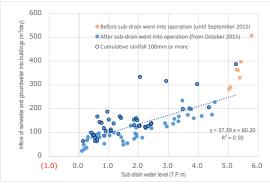
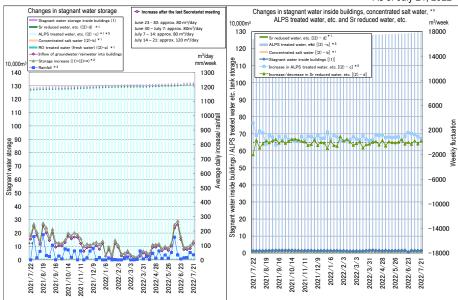


Figure 2: Correlation between inflow such as groundwater and rainwater into buildings and the water level of Units 1-4 sub-drains

- Implementation status of facing
- Facing is a measure involving asphalting the on-site surface to reduce the radiation dose, prevent rainwater
 infiltrating the ground and reduce the amount of underground water flowing into buildings. As of the end of June
 2022, 95% of the planned area (1,450,000 m² on site) had been completed. For the area inside the land-side
 impermeable walls, implementation proceeds appropriately after constructing a yard from implementable zones that
 leave the decommissioning work unaffected. As of the end of June 2022, 30% of the planned area (60,000 m²) had
 been completed.
- Status of the groundwater level around buildings
- The groundwater level in the area inside the land-side impermeable walls has been declining every year due to the land-side impermeable walls and the decline in the set water level of the sub-drains. On the mountain side, the average difference between inside and outside has been 4-5 m. The water level in the bank area has remained low (T.P. 1.4 m) compared with the ground surface (T.P. 2.5 m).
- As the set water level of the sub-drains declined slightly (T.P. -0.55 ⇒0.65 m) and others in FY2021, the groundwater level on the sea side of the Unit 1-4 buildings remained low (except during heavy rainfall) compared with the T.P. 2.5 m area.
- > Operation of multi-nuclide removal equipment
- Regarding the multi-nuclide removal equipment (existing), hot tests using radioactive water are ongoing (System A: from March 30, 2013, System B: from June 13, 2013, System C: from September 27, 2013). On March 23, 2022, a pre-service inspection certificate was granted by the Nuclear Regulation Authority and the entire pre-service inspection was completed. The (additional) multi-nuclide removal equipment went into full-scale operation from October 16, 2017. Regarding the (high-performance) multi-nuclide removal equipment, hot tests using radioactive water have been underway (from October 18, 2014).
- As of July 21, 2022, the volumes treated by existing, additional and high-performance multi-nuclide removal equipment were approx. 487,000, 739,000 and 103,000 m³, respectively (including approx. 9,500 m³ stored in the J1(D) tank, which contained water with highly concentrated radioactive materials at the System B outlet of the existing multinuclide removal equipment).
- Treatment measures comprising the removal of strontium by cesium-adsorption apparatus (KURION), the secondary cesium-adsorption apparatus (SARRY) and the third cesium-adsorption apparatus (SARRY II) continued. Up until July 21, 2022, approx. 683,000 m³ had been treated.

- Risk reduction of strontium-reduced water
- To reduce the risks of strontium-reduced water, treatment using existing, additional and high-performance multinuclide removal equipment is underway. Up until July 21, 2022, approx. 848,000 m³ had been treated.

As of July 21, 2022



*1: Water amount for which the water-level gauge indicates 0% or more *2: To detect storage increases more accurately, the calculation method was reviewed as follows from February 9, 2017: (The revised method was applied from March 1, 2018) [[Inflow of groundwater/ainwater in buildings] - (Unter transfer) - (Chemical injection into ALPS)]

[(Inflow of groundwater/rainwater into buildings) + (other transfer) + (chemical injection in *3: Changed from December 13, 2018 from rainfall in Namie to that within the site.

 Considered attributable to the fluctuation inflow of groundwater, rainwater and others to buildings due to the decline in the level of contaminated water in buildings. (Lifuk 8-2 2011)

(uuty e22, 2021) 15: The notation of treated water by the multi-nuclide removal equipment and others was reviewed in accordance with redefining of ALPS treated water by the Government (April 27, 2021)

Figure 3: Status of stagnant water storage

Status of the sea area monitoring related to the handling of ALPS treated water

- The concentration of tritium in seawater within 2km of the port has remained constant for the past one year and also
 remained low at new measurement points within the fluctuation range of seawater in Japan*. The concentration of
 Cesium-137 increased temporarily, which was considered due to rainfall as in the past fluctuation in seawater
 around the Fukushima Daiichi Nuclear Power Station. However, it remained constant relative to the measurement
 value for the past year and at new measurement points, also remained low within the fluctuation range of seawater
 in Japan*. For tritium, monitoring has been conducted with a lower detection limit since April 18.
- Both concentrations of tritium and Cesium-137 in seawater within 20km of the coast had remained constant for the
 past one year and low within the fluctuation range of seawater in Japan*.
- The concentration of tritium in seawater further than 20km from the coast remained low, including at new measurement points, within the fluctuation range of seawater in Japan*. The concentration of Cesium-137 remained constant for the past one year within the fluctuation range of seawater in Japan*.
- * : Range of the minimum maximum values detected during April 2018 March 2020 in the database below

In Japan	(including off	the coast of	Fukushima	Prefecture)
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Tritium concentration:	0.043 - 20 Bq/L
Cesium-137 concentration:	0.0010 - 0.38 Bq/L
Off the coast of Fukushima Prefe	ecture
Tritium concentration:	0.043 - 0.89 Bq/L
Cesium-137 concentration:	0 0013 - 0 38 Bg/l

Source: Environmental Radioactivity and Radiation in Japan, Environmental Radiation Database https://www.kankyo-hoshano.go.jp/data/database/

- For the status of fish and seaweed, although no samples were collected in April, measurement is underway for samples collected from May.
- > Increase of tritium concentration at the desalination equipment reverse osmosis (RO) module
- As the concentration of tritium at the inlet of the RO module has been increasing since late March 2022, the status
 was reported.
- The tritium concentration in stagnant water in each building was checked. It was confirmed that for the same period of the increase, the tritium concentration in stagnant water in the Unit 3 Reactor Building also increased.
- An increase in the Unit 3 Reactor Building was detected after the earthquake on March 16, 2022, possibly affected by the gradual decline in the PCV water level.
- The tritium concentration at the RO module inlet and others will continue to be monitored.
- > Progress in the marine organisms rearing test at the Fukushima Daiichi Nuclear Power Station
- To alleviate public concerns over the handling of ALPS treated water, marine orgasms were being reared in tanks of seawater containing ALPS treated water and the status was compared with the original seawater controls.
- From March, practice to rear flounder started using coastal seawater around the nuclear power station to learn how to rear marine organisms, verify the equipment design and others.
- From July 21, practice to rear flounder and abalone started in mockup tanks simulating the actual environment of the rearing test. The rearing of seaweed is also scheduled.
- Environmental preparation for the ALPS Treated Water Dilution/Discharge Facilities at the Fukushima Daiichi Nuclear Power Station
- To prepare the marine environment, the seafloor was excavated to install the discharge outlet caisson*. The excavation
 work started from May 5 when weather and marine meteorology conditions had recovered and was completed on
 June 27.

* Discharge outlet caisson: A concrete box structure used for foundation and port construction

- After excavation, rubble was injected to cover the seafloor and work to level the rubble surface was completed by July
 Subsequently, the seafloor after the excavation was inspected by the cover bathymetry and checked by divers. On
 July 22, it was deemed feasible to install the discharge outlet caisson and the preparation for the marine environment was completed.
- Manufacturing of the discharge caisson outside the site was completed on July 8. After completing the preparation, the caisson will be transported by sea to the Onahama Port.
- As environmental preparation on land, soil retaining and excavation for the shaft (upstream pool) and others have been underway since June 2. Subsequently, the environmental preparation for the shaft (downstream pool) will be conducted.
- For the environmental preparation on land, to implement the tunnel construction with safety first, an investigation to check a groundwater spring and others were started from July 12 at the soil-retaining walls, where excavation of the shield machine would be started and completed on July 23. The shield machine will be moved near the soil-retaining walls to complete the environmental preparation of the discharge shaft (downstream pool).

Fuel removal from the spent fuel pools

Work to help remove spent fuel from the pool is progressing steadily while ensuring seismic capacity and safety.

- > Main work to help spent fuel removal at Unit 1
- From late April 2021, work to assemble a temporary gantry and others has been underway in a yard outside the site as part of efforts to install a large cover.
- A work yard was prepared around the Reactor Building and work to install a large cover started from August 2021.

- Before installing the anchor of the large cover, the exterior walls of the Reactor Building were investigated. An investigation of representative parts on the west side of the building revealed that both cracking and concrete strength were within the assumed range and that the anchor would be installable as planned.
- From April 13, 2022, drilling to install an anchor in the building started. Work has proceeded carefully, mitigating the exposure risk of workers using a remotely operated anchor drilling equipment and suctioning dust.
- Moreover, during work, the dust concentration is monitored by on-site dust monitors to check for any significant fluctuation.
- > Main work to help spent fuel removal at Unit 2
- Decontamination to suppress dust scattering on the top floor of the Reactor Building was completed in December 2021 and contamination reduction was confirmed based on smear sampling results. Work to install shielding started from February within a range including above the reactor well, where the dose was observed to peak and will be completed at the end of May.
- From October 28, 2021, ground improvement work started before installing the gantry for fuel removal and was completed on April 19, 2022. Work to install the gantry foundation will then proceed.
- Outside the site, work to prepare a yard for ground assembly of steel frames was completed on March 18. Before the ground assembly, preparation will proceed.
- Status of transportation of spent fuel inside the site from the common pool to a Temporary Cask Custody Area
- To secure space in the common pool to accept the spent fuel assemblies in the Unit 6, work is underway to contain the existing spent fuel stored in the common pool in the 22 dry casks and transport inside the site from the common pool building to a Temporary Cask Custody Area to store the assemblies.
- From May 11, 2022, the fuel was loaded in the first dry cask. However, as the airtightness of the lid did not satisfy the criteria (at present, it is satisfied by cleaning the fuel top before attaching the first lid of the cask) and on July 20, the operation of the overhead crane on the first floor of the common pool was disabled, which meant it took longer to transport the fuel to the Temporary Cask Custody Area.
- Accordingly, prior to starting the Unit 6 fuel removal, only one dry cask will be transported inside the site, though four dry casks were expected initially.
- The removal of Unit 6 spent fuel will start around the end of August.

Retrieval of fuel debris

- > Progress status toward Unit 1 PCV internal investigation
- To acquire information related to the construction plan to collect deposits and others toward fuel debris retrieval, a
 remotely operated underwater vehicle (ROV) will be inserted from X-2 penetration into the basement within the PCV
 to investigate inside and outside the pedestal.
- During June 7-11, the thickness of deposits was measured using the remotely operated submersible ROV-C robot.
- > Progress status toward Unit 2 PCV internal investigation and trial retrieval
- The trial retrieval equipment for Unit 2 fuel debris, which had been developed in the UK, arrived in Japan on July 10, 2021.
- The ongoing performance verification test in a domestic factory (Kobe), which started from August 2021, finished on January 21, 2022.
- The equipment was transported from January 28, 2022 and the robot arm arrived on January 31 and the enclosure, on February 4, at the Naraha Center for Remote Control Technology Development of the Japan Atomic Energy Agency (JAEA) (hereinafter referred to as the "Naraha mockup facility").
- From February 14, 2022, the performance verification test and operational training started at the Naraha mockup facility.

Plans to store, process and dispose of solid waste and decommission of reactor facilities

Promoting efforts to reduce and store waste generated appropriately and R&D to facilitate adequate and safe storage, processing and disposal of radioactive waste

- > Management status of the rubble and trimmed trees
- As of the end of June 2022, the total storage volume for concrete and metal rubble was approx. 326,800 m³ (+1,100 m³ compared to the end of May with an area-occupation rate of 87%). The total storage volume of trimmed trees was approx. 129,200 m³ (-4,200 m³, with an area-occupation rate of 74%). The total storage volume of used protective clothing was approx. 31,100 m³ (+800 m³, with an area-occupation rate of 59%). The increase in rubble was attributable to work around Units 1-4 buildings, construction related to the port, decontamination of flanged tanks and others. As of the end of June 2022, there were ten temporary deposits with storage capacity exceeding 1,000m³, storage 48,300m³.
- > Management status of secondary waste from water treatment
- As of June 30, 2022, the total storage volume of waste sludge was 422 m³ (area-occupation rate: 60%), while that of concentrated waste fluid was 9,380 m³ (area-occupation rate: 91%). The total number of stored spent vessels, High-Integrity Containers (HICs) for multi-nuclide removal equipment and other vessels, was 5,388 (area-occupation rate: 85%).
- > Status of the additional Radioactive Waste Incinerator
- On May 23, the operation of the additional Radioactive Waste Incinerator resumed.
- On June 10, during the incineration operation, before filling the container with fly ash, when the inside of the fly ash filling equipment was checked, water dripping from the fly ash filling inlet was detected. As water was also detected inside the fly ash hopper (storing fly ash) located further upstream of the water dripping, the incineration operation was suspended. No external leakage of radioactive materials was identified.
- The exhaust gas cooler supplied spray water to the system and no abnormality was detected in the spray test of the cooler. Investigation of the cause is underway.
- On June 18, during a patrol, cracks and others were detected in the plate connecting the secondary burner and stoker and at the seal welded part of the rotary kiln joint.
- As when the cracks were detected, the incineration operation was suspended and negative pressure was maintained by a blower in the area within the affected system, no radioactive material was deemed to have leaked outside.
- From the observation results of the crack surface, the cracks were deemed attributable to ductile fracture by excessive stress, caused by an influence of the Fukushima Offshore Earthquake on March 16. In response, similar facility parts were investigated and new malfunctions detected, such as loose bolts and cracks of furnace refractory materials. At present, potential repair methods are being examined with early restoration in mind.

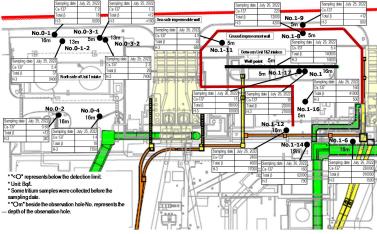
Reduction in radiation dose and mitigation of contamination

Effective dose-reduction at site boundaries and purification of port water to mitigate the impact of radiation on the external environment

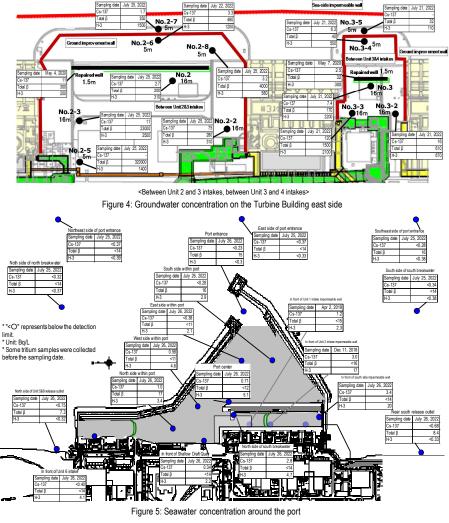
- > Status of groundwater and seawater on the east side of Turbine Building Units 1-4
- In the Unit 1 intake north side area, the H-3 concentration was below the legal discharge limit of 60,000 Bq/L at all
 observation holes and remained constant or has been declining overall. The concentration of total β radioactive
 materials has remained constant overall but increased temporarily from April 2020 and is even increasing or declining
 at many observation holes at present, including Nos. 0-1-2, 0-3-1, 0-3-2 and 0-4. The trend continues to be monitored
 carefully.
- In the area between the Unit 1 and 2 intakes, the H-3 concentration has remained below the legal discharge limit of 60,000 Bq/L at all observation holes. It has been increasing or declining at Nos. 1-14 and 1-17 but has otherwise remained constant or been declining overall. The concentration of total β radioactive materials has remained constant overall but been increasing or declining at many observation holes, including Nos. 1-6, 1-9, 1-11, 1-12, 1-14, 1-16 and

1-17. The trend continues to be monitored carefully.

- In the area between the Unit 2 and 3 intakes, the H-3 concentration has been below the legal discharge limit of 60,000 Bq/L at all observation holes. It has been increasing and declining at Nos. 2-3, 2-5, 2-6 and 2-7 but has remained constant overall. The concentration of total β radioactive materials has remained constant overall but been increasing or declining at Nos. 2-3, 2-5 and 2-6. The trend continues to be monitored carefully.
- In the area between the Unit 3 and 4 intakes, the H-3 concentration has been below the legal discharge limit of 60,000 Bq/L at all observation holes. It has remained constant or been declining overall. The concentration of total β radioactive materials has remained constant overall but has been increasing or declining at many observation holes, including Nos. 3-4 and 3-5. The trend continues to be monitored carefully.
- In the groundwater on the east side of the Turbine Buildings, as with the total β radioactive materials, the concentration
 of cesium has also remained constant but been increasing or declining and exceeded the previous highest record at
 some observation holes. Investigations into fluctuation are underway for Nos. 0-3-2, 1, 1-6, 2-6 and 3-3.
- The concentration of radioactive materials in drainage channels has remained constant overall, despite increasing during rainfall.
- In the open channel area of seawater intake for Units 1 to 4, the concentration of radioactive materials in seawater
 has remained below the legal discharge limit and been declining long term, despite temporary increases in Cs-137
 and Sr-90 noted during rainfall. They have also been declining following the completed installation and the connection
 of steel pipe sheet piles for the sea-side impermeable walls. The concentration of Cs-137 has remained slightly higher
 in front of the south side impermeable walls and slightly lower on the north side of the east breakwater since March
 20, 2019, when the silt fence was transferred to the center of the open channel due to mega float-related construction.
- In the port area, the concentration of radioactive materials in seawater has remained below the legal discharge limit and been declining long term, despite temporary increases in Cs-137 and Sr-90 observed during rainfall. They have remained below the level of those in the Units 1-4 intake open channel area and been declining following the completed installation and connection of steel pipe sheet piles for the sea-side impermeable walls.
- In the area outside the port, regarding the concentration of radioactive materials in seawater, those of Cs-137 and Sr-90 declined and remained low after steel pipe sheet piles for the sea-side impermeable walls were installed and connected. Regarding the concentration of Cs-137, a temporary increase was sometimes observed on the north side of the Unit 5 and 6 outlets and near the south outlet due to the influence of weather, marine meteorology and other factors. Regarding the concentration of Sr-90, variation has been observed in FY2021 in the area outside the port (north and south outlets). Monitoring of the tendency continues, including the potential influence of the weather, marine meteorology and others.



<Unit 1 intake north side, between Unit 1 and 2 intakes

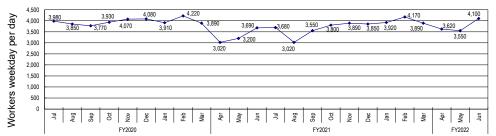


Outlook of the number of staff required and efforts to improve the labor environment and conditions

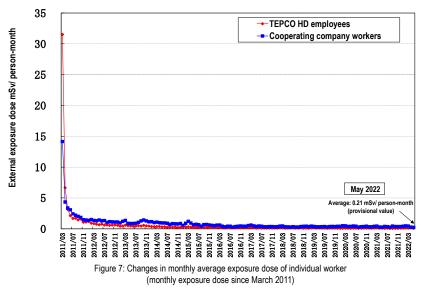
Adequate number of staff will be secured in the long-term, while firmly implementing radiation control of workers. The work environment and labor conditions will be continuously improved by responding to the needs on the site.

- > Staff management
- The monthly average total of personnel registered for at least one day per month to work on site during the past quarter from March to May 2022 was approx. 9,000 (cooperating company workers and TEPCO HD employees), which exceeded the monthly average workforce (approx. 6,700). Accordingly, sufficient personnel are registered to work on site.
- It was confirmed with the prime contractors that the estimated manpower necessary for the work in August 2022 (approx. 3,700 workers per day: cooperating company workers and TEPCO HD employees) would be secured at present. The average numbers of workers per day for each month (actual values) for the most recent 2 years were maintained, with approx. 3,000 to 4,200.

- The number of workers both from within and outside Fukushima Prefecture increased slightly. The local employment ratio (cooperating company workers and TEPCO HD employees) as of June 2022 remained constant at around 70%.
- The average exposure doses of workers were approx. 2.54 and 2.60 and 2.51 mSv/person-year during FY2019, 2020 and 2021, respectively. (The legal exposure dose limits are 100 mSv/person and 50 mSv/person-year over five years, the TEPCO HD management target is 20 mSv/person-year).
- For most workers, the exposure dose was sufficiently within the limit and allowed them to continue engaging in radiation work.



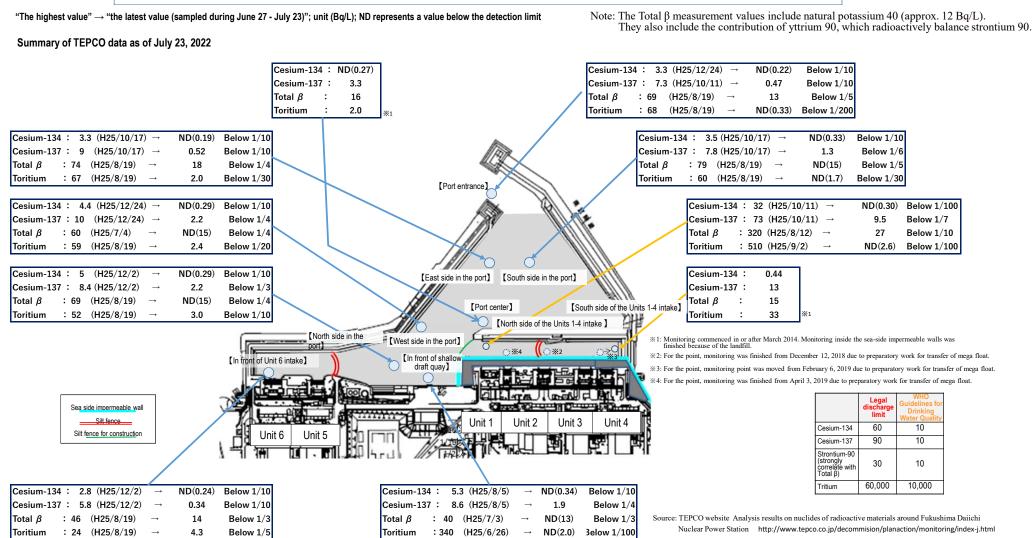




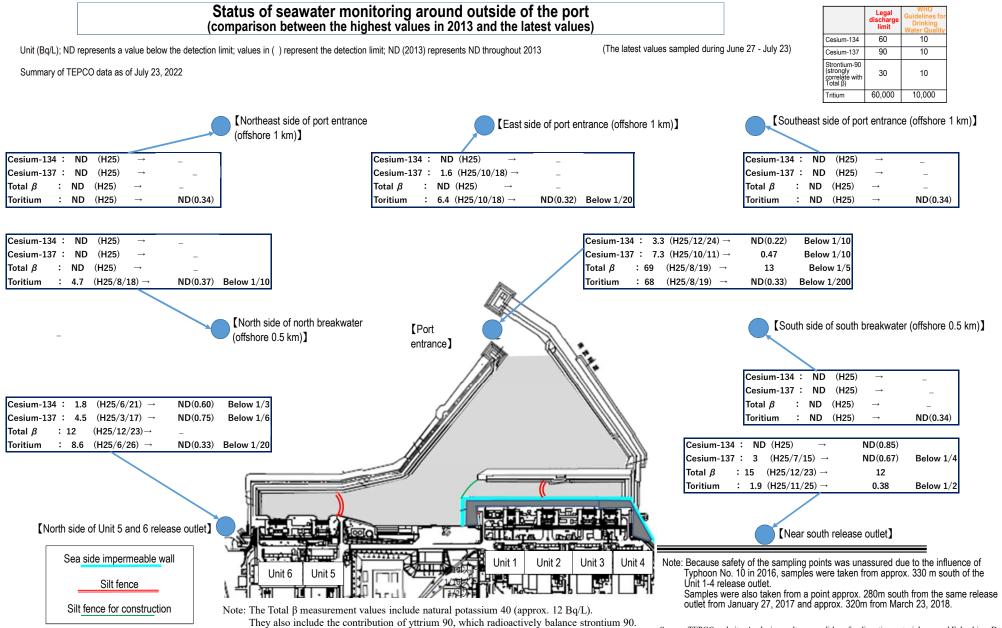
- Survey to improve the work environment
- With the aim of improving the work environment for workers at the power station, an annual survey is being conducted. Distribution of the 13th survey questionnaire sheet will start sequentially from late August and the results will be summarized in December.
- To improve from the previous survey, questions are selected by deleting those about facilities and equipment for which more than 80% responded "good," "no request" or similar.
- On the other hand, new questions were included, such as those about how to access the information related to ALPS treated water, decommissioning and others and greetings when passing each other, to alleviate concerns and create a comfortable and friendly workplace.
- · Efforts to create "a safe and comfortable workplace" continue.

> Countermeasures to suppress the spread of COVID-19 infections

- Since July, infections at the nuclear power station have been increasing, particular within families. Based on this status
 and the need to refocus on "do not bring" of the virus into the nuclear power station, ongoing measures were reiterated
 and the following additional measures were implemented from July 21 for TEPCO HD employees and from July 22
 for cooperating company workers:
 - Those at risk of infection, such as those having moved outside Fukushima Prefecture and those living within
 Fukushima Prefecture and their family members having moved from outside, are required to confirm that they are
 negative via an antigen test.
 - Before coming to the company at the beginning of the week, they must strictly check their own physical condition
 or that of their family members and report to their supervisors and managers whether they had contact in the
 context of the "three Cs" many people or unspecified number of people or not.
 - · With risks in mind, business travel and occasions for meeting and dining collectively would be more carefully chosen.
- The ongoing basic countermeasures to prevent the infection spreading, such as requiring employees to take their temperature before coming to the office, wear masks at all times, avoid the "Three Cs" by using the rest house in shifts, eat silently and carefully select business travel, continue to be properly implemented to proceed with decommissioning work, prioritizing safety above all.
- As of July 27, 2022, 407 workers (including 65 TEPCO HD employees, 339 cooperating company workers, two business partner company employees and one temporary worker) of the Fukushima Daiichi Nuclear Power Station had contracted COVID-19, an increase of 77 workers (including nine TEPCO HD employees and 68 cooperating company workers) from those in the previous published material (as of June 29).
- No significant influence on decommissioning work, such as a corresponding delay to work processes due to this infection, had been identified.
- > Health management of workers in the Fukushima Daiichi Nuclear Power Station
- As health management measures in line with the guidelines of the Ministry of Health, Labour and Welfare (issued in August 2015), a scheme was established and operated, whereby prime contractors confirmed reexamination at medical institutions and the subsequent status of workers who were diagnosed as requiring "detailed examination and treatment" in the health checkup, with TEPCO confirming the operation status by the prime contractors.
- The recent report on the management status of the health checkup during the fourth quarter (January March) in FY2021 confirmed that the prime contractors had provided appropriate guidance and managed operations properly under the scheme. The report on the follow-up status during the third quarter in FY2021 and before confirmed that responses to workers, which had not been completed by the time of the previous report, were being provided on an ongoing basis and checking of operations will continue.
- Status of heat stroke cases
- In FY2022, measures to further prevent heat stroke commenced from April to cope with the hottest season.
- FY2022, three workers suffered heat stroke due to work up until July 25 (in FY2021, three workers up until the end of July). Continued measures will be taken to prevent heat stroke.



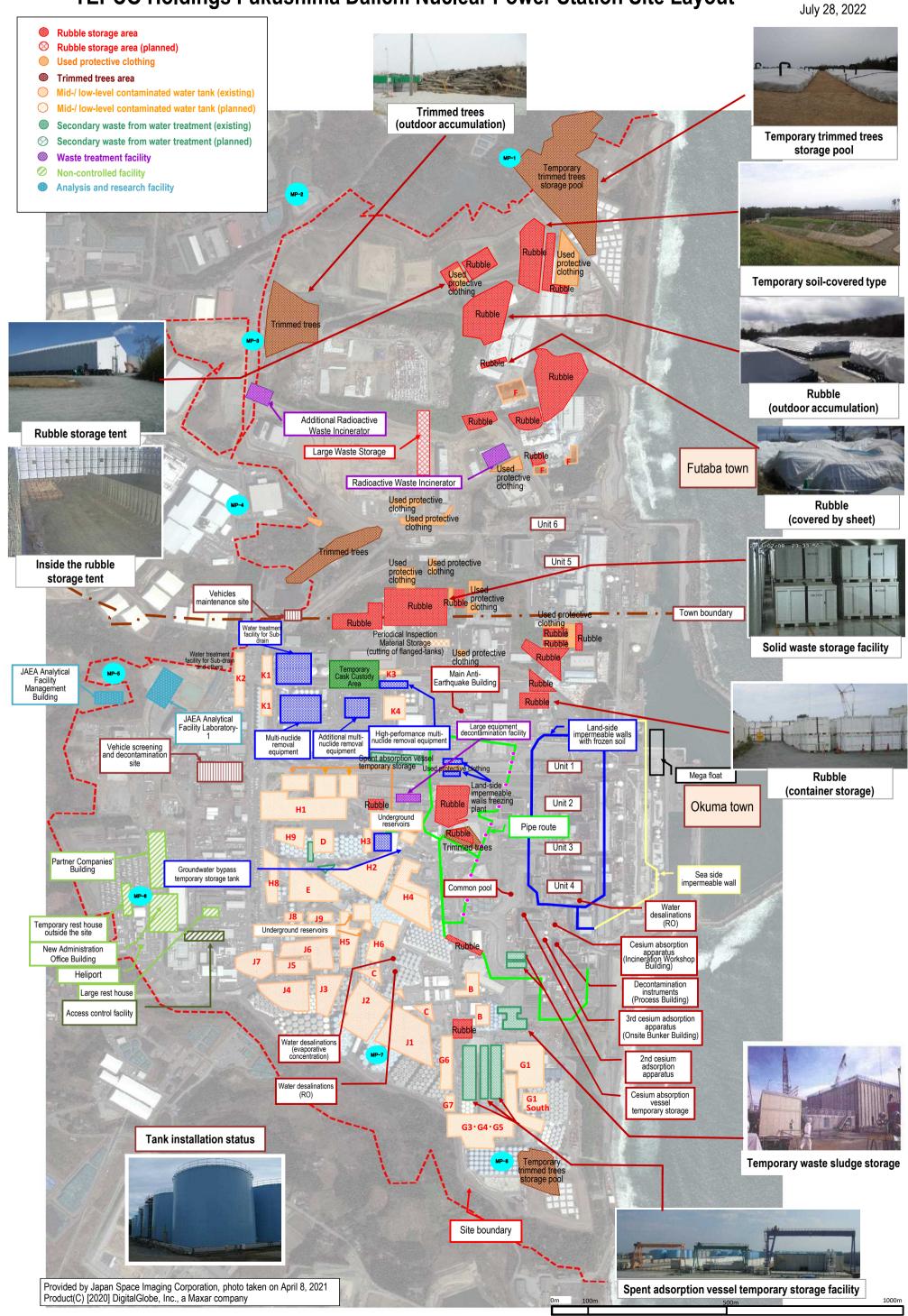
Status of seawater monitoring within the port (comparison between the highest values in 2013 and the latest values)



Source: TEPCO website, Analysis results on nuclides of radioactive materials around Fukushima Daiichi Nuclear Power Station http://www.tepco.co.jp/decommision/planaction/monitoring/index-j.html

TEPCO Holdings Fukushima Daiichi Nuclear Power Station Site Layout

Appendix 2



1-1 Contaminated water management

- Efforts to promote contaminated water management based on three basic policies:
 - ① "Remove" the source of water contamination ② "Redirect" fresh water from contaminated areas
 - ③ "Retain" contaminated water from leakage

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

• [Completed] Suppressing the amount of contaminated water generated to 150 m3/day or less (within 2020)

 Suppressing the amount of contaminated water generated to 100 m³/day or less (within 2025)

Reference July 28, 2022 Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water 1/6

No. No. <th></th> <th></th> <th>2011</th> <th>2012</th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> <th>2022</th>			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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					Ce:	(KURION)								
	Contaminated water	Contaminated water treatment facility			✓ Multi auclide. Removal Fourier	meet (ALPS) (System A: from 2013.3. ⊽Multi-nuc		m-reduced water (ALPS: from 2015.12. C: from 2013.9.27, hot tests conducted PS)	4, additional: from 2015.5.27, high-perfo s) ⊽Start of			onfum by 3rd Cesium Adsorption Appar	atus (SARRY II) (from 2019.7.12)	
	management [Remove]				ium equ	uipment (ALPS)			ests conducted)		Sub-drains went in bundwater bypass	to operation	Rainfall in Fukus	shima Dalichi NPS vater generated water, rainwater, etc.
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Contaminated state management Retain] Storage facility Storage facility Storage facility Vide relakage (000) from farged tark vocompletion of storatum-reduced water in flanged tarks complete votor resource votor is storatum-reduced water in flanged tarks complete votor resource votor is storatum-reduced water in flanged tarks complete votor resource votor is storatum-reduced water in flanged tarks complete votor resource votor is storatum-reduced water in water do tarks or votor tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water in water do tarks or votor is storatum-reduced water complete			-											
√Transfer of contaminabel water to tanks complete √Transfer of contaminabel water to tanks complete √Durification of strontium-reduced water complete √Storage in cylindrical stee welded-joint tanks √Durification of strontium-reduced water complete √Storage in cylindrical stee welded-joint tanks √Durification of strontium-reduced water complete	Contaminated water management [Retain]			flanged cylindrical tanks		e (300L) from flanged tank ⊽Water leakage (100t) from flang Completion of fence to prevent leakag	ed tank ge expanding			VP	urification of strontium-reduce	d water in flanged tanks comple		
		Storage facility					Start of transfer to tanks							
						I welded-joint tanks							strontium-reduced water complete	



Legend

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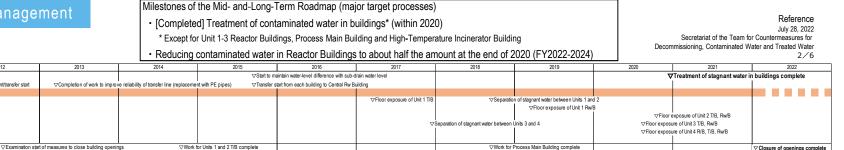






Flanged and welded-joint tanks

nstallation of stagnant water transfer equipment/transfer start

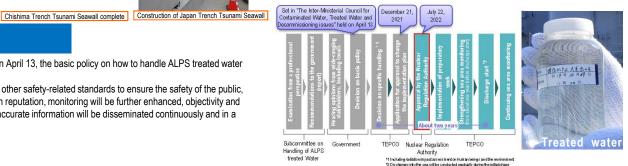


2 Handling of ALPS treated water

⊠Installation of out

In "The Inter-Ministerial Council for Contaminated Water, Treated water and Decommissioning" held on April 13, the basic policy on how to handle ALPS treated water was set. Based on this, the response of TEPCO was announced on April 16.

Regarding the discharge of ALPS treated water into the sea, TEPCO must comply with regulatory and other safety-related standards to ensure the safety of the public, surrounding environment and agricultural, forestry and fishery products. To minimize adverse impacts on reputation, monitoring will be further enhanced, objectivity and transparency ensured by engaging with third-party experts and safety checked by the IAEA. Moreover, accurate information will be disseminated continuously and in a highly transparent manner.

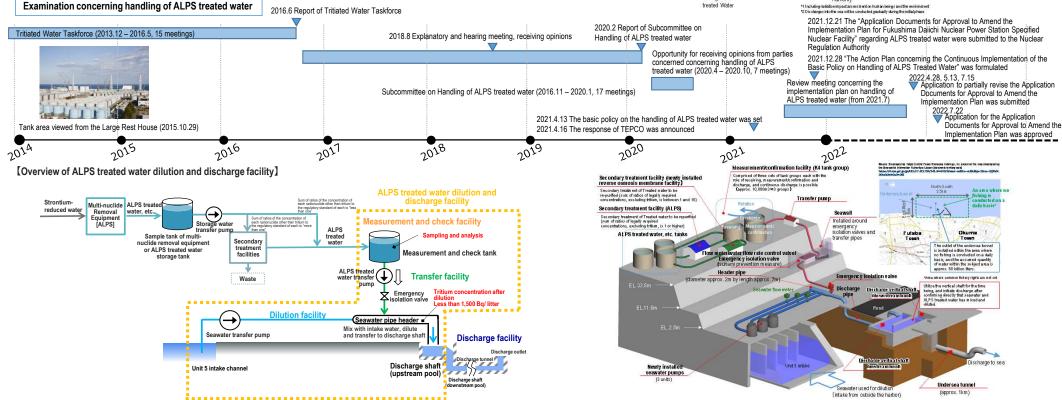


Japan Trench tsunami se awa

Work of Unit 1-4 Rw/B complete

Work for Unit 3 T/B comp

Temporary grounding of mega float⊽



3 Removal of fuel from spent pool

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

· Completion of Unit 1-6 fuel removal (within 2031)

Completion of installation of Unit 1 large cover (around FY2023), start of Unit 1 fuel removal (FY2027-2028)

Reference

July 28, 2022

3/6

Secretariat of the Team for Countermeasures for

Decommissioning, Contaminated Water and Treated Water

Start of Unit 2 fuel removal (FY2024-2026)

Legend Storage and handling of fuel Rubble removal. etc. Fuel removal 2011 2014 2018 2020 2021 2012 2013 2016 2017 2019 2015 In the Mid- and-Long-Term Roadmap, the Phase 1 target involved starting to remove fuel from inside ▼ 2011.11- 2012.7 Removal of rubble on the Reactor Building top floor All fuel assemblies from Unit 4 had been the spent fuel pool (SFP) of the 1st Unit within two years of completing Step 2 (by December 2013). removed by December 2014. On November 18, 2013, fuel removal from Unit 4, namely the first Unit, got underway and Phase 2 of the ▼ 2012.4-2013.3 Ground improvement and foundation work roadmap ▼ 2013.4-2013.7 Installation of external walls and roof panels started. On November 5, 2014, within a year of commencing fuel removal work, all 1,331 spent fuel assemblies ▼ 2013.6-2013.10 Installation of overhead crane and fuel-handling machine in the pool had been transferred. The transfer of the remaining non-irradiated fuel assemblies to the Unit 6 SFP ▼ 2013.8-2013.10 Removal of rubble inside the reactor well and pool was completed on December 22, 2014, (two of the non-irradiated fuel assemblies were removed in advance in July 2012 for fuel checks) ▼ 2013.11.18 Start of fuel removal <Unit 4 Cover for fuel removal> Fuel removal This marks the completion of fuel removal from the Unit 4 Reactor Building. 2014.12.22 Fuel removal was completed (1533 assemblies) Unit 4 ▼ 2013.10 Completion of removal of large rubble on the Reactor Building top floor All fuel assemblies from Unit 3 had ▼ 2015.8 Completion of removal of the fuel-handling machine B within the spent fuel pool been removed by February 2021. Overview of the fuel-handling facility inside the cover ▼ 2016.12 Completion of shielding on the Reactor Building top floor <Unit 3 Cover for fuel removal (dome roof) 2019.2.21> Before installing a cover for fuel removal, the Fuel-handling machine 2017.1 Installation start of a cover for fuel removal process of removing large rubble from the spent fuel ▼ 2019.4.15 Start of fuel removal pool was completed in November 2015. To ensure 2021.2.28 Fuel removal completed (566 assemblies) safe and steady fuel removal, training via remote in 🛱 control was conducted at the factory using the actual Unit 3 fuel-handling machine to be installed on site (February - December 2015). Installation of the fuel removal cover was completed on February 23, 2018. With fuel removal in mind, rubble retrieval training ▼ 2015.3-2016.11 Yard construction inside the pool, which was scheduled in conjunction with fuel removal training, started from March 15. Unit 2 ▼ 2016.9-2017.4 West-side gantry installation work 2019 and fuel removal started from April 15, 2019. Overview of fuel removal ▼ 2017.5 Opening a hole in the west-side external wall Fuel removal was completed on February 28, 2021. (bird's-eye view) ▼ 2018.8-2020.12 Moving and containment of remaining objects For Unit 2, with the removal of spent fuel in mind, a "gantry for fuel removal" (gantry and front room) will be constructed on the south side of the building. ▼ 2020.6 Investigation inside the spent fuel pool ▼ 2021.10-2022.4 Ground improvement work Jnit 2 Construction of gantry for fuel removal> As part of efforts to remove fuel from the Unit 2 spent fuel pool and based on findings from Unit 2 internal operating floor investigations from November 2018 to February 2019, instead of fully dismantling the upper part of the building, the decision was made to install a small opening on ▼ 2020.3-6 Installation of spent fuel pool cover the south side and use a boom crane. Examination continues to initiate fuel removal from ▼ 2020.9-11 Measures to prevent and alleviate rubble falling FY2024 to FY2026. ▼ 2020.11-2021.6 Dismantling of remaining cover <Reference> Progress to date ▼ 2021.8 Start of large cover pre-work For Unit 1, a large cover will be installed over the whole Previously, scope to recover the existing overhead crane ▼ 2018.9-12 Removal of X-braces building, within which rubble will be removed. and the fuel-handling machine was examined. However, the high radiation dose inside the operating floor meant Unit 1 the decision was taken to dismantle the upper part of the As part of efforts to remove fuel from the Unit 1 spent fuel pool, investigations are underway to building in November 2015. Findings from internal ascertain the conditions of the fallen roof on the south side and the contamination of the well plug. investigations of the operating floor from November 2018 Based on the results, "the method initially installing a large cover over the Reactor Building, then to February 2019 underlined the potential to conduct removing rubble within the cover" was selected to ensure safer and more secure removal. Work to install limited work there and the means of accessing from the a large cover started from August 2021. Work to complete the installation of a large cover by around south side was examined. FY2023 is ongoing, with fuel removal scheduled to run from FY2027 to FY2028. <Reference> Progress to date Rubble removal on the north side of the operating floor started from January 2018 and has been implemented sequentially. In July and August 2019, the well plug, which was misaligned, was investigated, followed in August and September by the conditions of the overhead crane. Based on the results of these investigations, as the removal requires more careful work taking dust scattering into consideration, two methods were examined: Installing a cover after rubble removal, initially installing a large cover over the Reactor Building, then removing rubble inside the cover. <Unit 1 Dismantling of remaining cover> Rubble removal (image) Fuel removal (image) 2020 2013 2017 2018 2019 2021 2011 2012 2014 2015 2016 * Part of the photo is corrected because it includes machine information related to nuclear material prote

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

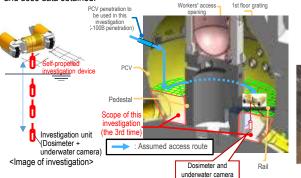
Start of fuel debris retrieval from the first unit (Unit 2). Expanding the scale in stages (within 2021 * The schedule will be extended for about 1 year due to the spread of COVID-19 infections)

Before removing fuel debris, investigations inside the Primary Containment Vessel (PCV) are conducted to inspect the conditions there, including locations of fuel debris.

Unit 1 Investigation overview

 In April 2015, a device having entered the inside of the PCV via a narrow opening (bore: @100 mm) collected information such as images and airborne dose inside the PCV 1st floor.

• In March 2017, an investigation using a self-propelled investigation device was conducted to inspect the spreading of debris to the basement floor outside the pedestal, with images taken of the PCV bottom status for the first time. The conditions inside the PCV will continue to be examined, based on the imagery and dose data obtained.



In February, the first remotely operated underwater vehicle (ROV-A) was inserted to install "guide rings" which will facilitate the investigation. As installation of guide rings has been completed, then a detailed investigation will be implemented.

In this investigation, distribution of deposits outside the pedestal and their characteristics or others will also be investigated. The results of these investigations will be utilized in the examination of method and procedures toward future debris retrieval



Unit 1 PCV internal investigation

	1st (2012.10)	Acquiring images Measuring the air temperature and dose rate Measuring the water level and temperature Sampling stagnant water Installing permanent monitoring instrumentation			
Investigations inside the PCV	2nd (2015.4)	Confirming the status of the PCV 1st floor - Acquiring images - Measuring the air temperature and dose rate - Replacing permanent monitoring instrumentation			
	3rd (2017.3)	Confirming the status of the PCV 1st basement floor - Acquiring images - Measuring the dose rate - Sampling deposit - Replacing permanent monitoring instrumentation			
Leakage points from PCV	ts - PCV vent pipe vacuum break line bellows (identified in 2014.5) - Sand cushion drain line (identified in 2013.11)				
Evaluation of the location of fuel debris inside the reactor by measurement using muons					

Confirmed that there was no large fuel in the reactor core. (2015.2-5)

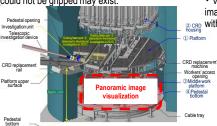
Unit 2 Investigation overview

 In January 2017, a camera was inserted from the PCV penetration to inspect the conditions of the rail on which the robot traveled. The results of a series of investigations confirmed some gratings had fallen and deformed as well as a quantity of deposit inside the pedestal.

 In January 2018, the conditions below the platform inside the pedestal were investigated. Based on the analytical results of images obtained in the investigation, deposits, probably including fuel debris, were found at the bottom of the pedestal. Moreover, multiple parts exceeding the surrounding deposits were also detected. We presumed that there were multiple instances of fuel debris falling.

· In February 2019, an investigation touching the deposits at the bottom of the pedestal and on the platform was conducted and confirmed that the pebble-shaped deposits, etc. could be moved and that hard rock-like deposits that could not be gripped may exist





Bottom of the pedestal (after being processed in panoramic image visualization)

1st (2012.1

2nd (2012.3)

4th (2017.1-2)

5th (2018.1)

6th (2019.2)

3rd (2013.2 - 2014.6)

Evaluation of the location of fuel debris inside the reactor by measurement using muons

<Status inside the PCV (February9)> Unit 2 PCV internal investigation

Investigations

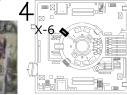
inside the PCV

Leakage points from

PCV

 In October 2020, as part of work to prepare for the PCV internal investigation and trial retrieval, a contact investigation to study deposits inside the penetration (X-6 penetration) was conducted, which involved inserting a guide pipe incorporating an investigative unit into the penetration. This confirmed that deposits inside the penetration had not deformed and come unstuck. The investigative information obtained will be utilized in the mockup test of the equipment to remove deposits inside the X-6 penetration.





<Work in front of the penetration>

- No leakage from the torus chamber rooftop - No leakage from any internal/external surfaces of S/C

The existence of high-density materials, which were considered to constitute fuel debris, was confirmed at the bottom of RPV and in the lower part and outer periphery of the reactor core. It was assumed that a significant portion of fuel debris existed at the bottom of RPV. (2016.3-7)

- Measuring the dose rate

- Acquiring images - Measuring the air temperature - Confirming water surface - Measuring the water temperature

Acquiring images - Sampling stagnant water

Determining characteristics of a portion of deposit

- Measuring water level - Installing permanent monitoring instrumentation

- Acquiring images - Measuring the dose rate - Measuring the air temperature

- Acquiring images - Measuring the dose rate - Measuring the air temperature Acquiring images - Measuring the dose rate - Measuring the air temperature

<Unit 2 Reactor Building 1st floor Location of the penetration>

I Init 3 DCV	internal investigation

Investigations inside the PCV	1st (2015.10-12)	Acquiring images Measuring the air temperature and dose rate Measuring the water level and temperature Sampling stagnant water Installing permanent monitoring instrumentation (2015.12)			
	2nd (2017.7)	 Acquiring images Installing permanent monitoring instrumentation (2017.8) 			
Leakage points from PCV - Main steam pipe bellows (identified in 2014.5)					
Evaluation of the location of fuel debris inside the reactor by measurement using muons The evaluation confirmed that no large lump existed in the core area where fuel had been placed and that a portion of the fuel debris potentially existed at the bottom of the RPV. (2017.5-9)					

Reference July 28, 2022 Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water 4/6

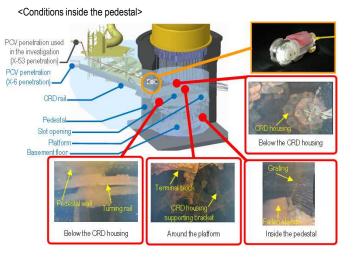
Unit 3 Investigation overview

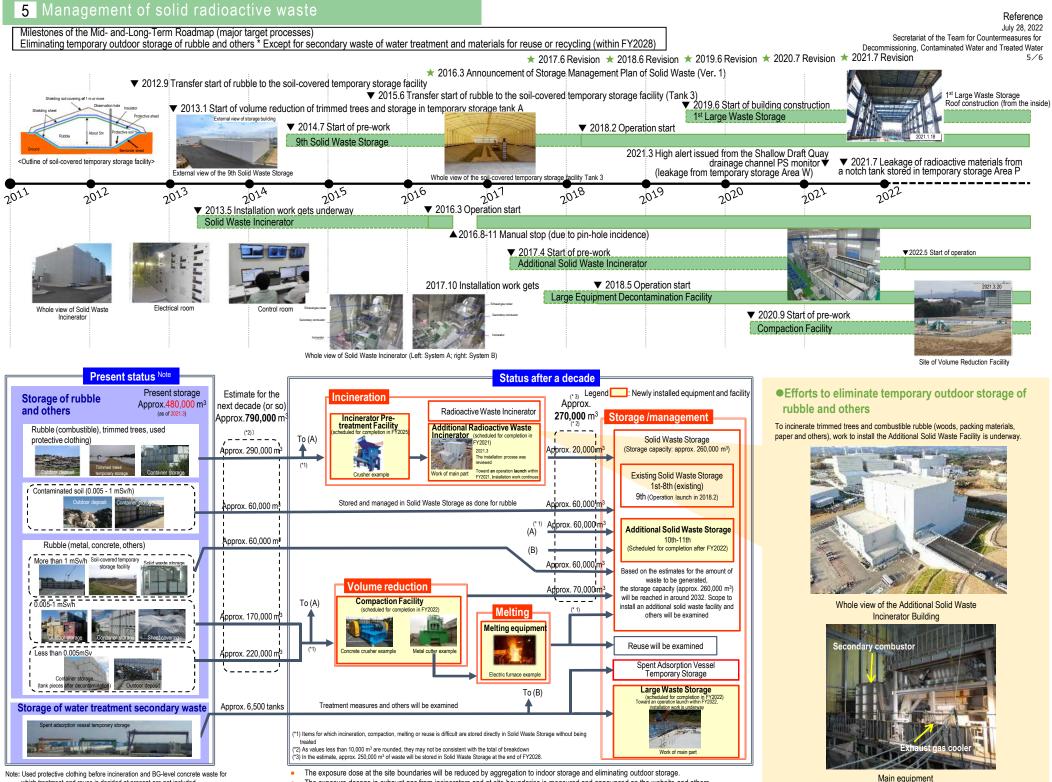
 In October 2014, the conditions of X-53 penetration, which may be under water and which is scheduled for use to investigate the inside of the PCV, was investigated via remote-controlled ultrasonic test equipment. The results showed that the penetration was not under water.

 In October 2015, to confirm the conditions inside the PCV, an investigative device was inserted into the PCV from X-53 penetration to obtain images, data on dosage and temperature and sample stagnant water. No damage to the structure and walls inside the PCV was identified and the water level was almost identical to estimated values. In addition, the dose inside the PCV was confirmed to be lower than in other Units.

• In July 2017, the inside of the PCV was investigated using the underwater ROV (remotely operated underwater vehicle) to inspect the inside of the pedestal. Analysis of the imagery obtained in the investigation identified damage to multiple structures and the supposed core internals

· Videos obtained in the investigation were reproduced in 3D. Based on the reproduced images, the relative positions of the structures, such as the rotating platform slipping off the rail with a portion buried in deposits, were visually understood.





which treatment and reuse is decided at present are not included

The exposure dosage in exhaust gas from incinerators and at site boundaries is measured and announced on the website and others.

While ensuring reliable exposure dose management for workers, sufficient personnel are secured. Moreover, while getting a handle on on-site needs, the work environment and labor conditions are continuously improved.

In March 2015, the Fukushima revitalization

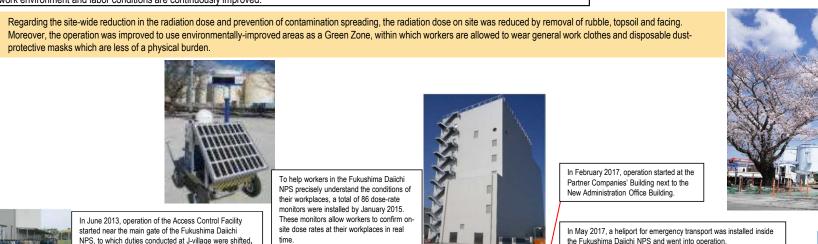
2015

unnecessary area was expanded to cover about 90% of the site

In May 2015, full-face mask

meal service center opened.

Reference July 28, 2022 Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water 6/6



A large rest house for workers was established

In March 2016, a convenience store opened in

the large rest house. In April, the shower room

2017

In March 2017, the G-zone area was

expanded (to cover 95% of the whole site).

R zono [Anoras arca] %1 Yzono [Coveral area] %2 G zona [General war area] %3

and its operation commenced in May 2015.

Spaces in the large rest house are also installed for office work and collective worker

safety checks as well as taking rest.

went into operation.

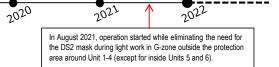
2016





Visit by Governor of Fukushima Prefecture to the Fukushima Daiichi NPS (2018.11.1)

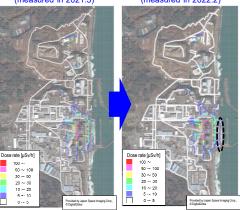
Visit by Prime Minister Kishida to the Fukushima Daiichi NPS (2021.10.17)



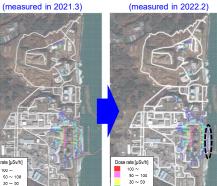
<Travel survey results of major roads within the site> The dose rate has been declining every year. In particular, in the area on the east side of the Turbine Building shown a black dotted line, the dose rate declined by facing related to installation of the seawall as the countermeasure to the Japan Trench tsunami.

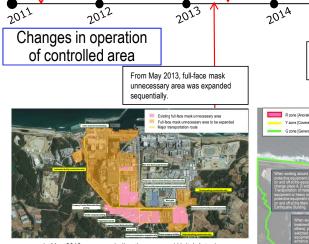


(measured in 2022.2)



FY2020 4th Quarter FY2021 4th Quarter





including contamination examination, decontamination, switching protective equipment on and off and

distribution/collection of dosimeters.

External view of Access

From March 12, 2011, in response to the increased airborne

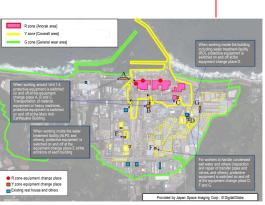
concentration of radioactive materials, instructions were issued to

wear full-face masks throughout the Fukushima Daiichi NPS site,

excluding the Main Anti-Earthquake Building and the rest house.

Control Facility

In May 2013, areas excluding those around Unit 1-4, tank areas and rubble storage areas were set to full-face mask unnecessary areas.



In March 2016, based on the progress of measures to reduce the environmental dosage on site, the site was categorized into two zones: Highly contaminated area around Unit 1-4 buildings, etc. and other areas where limited operation started to optimize protective equipment according to each category.

In May 2018, within about 96% of the site, workers are allowed to wear light equipment such as general workwear and disposable dust-protective masks.

0

311 Inseline 13-3 Source for Angel 2014 & Tablers (Tablego, exclusion) of uncoverlay participant dargets and uncoverla

Compared to the previous operation (at Koriyama Coast, Futaba

Town or Fukushima Daini NPS, relaving to a doctor helicopter), a

From November 2018, from the west-side high-ground

site in their normal clothes without having to change

2019

area, where Unit 1-4 can be viewed, visitors can see the

faster response is available for seriously ill patients requiring

treatment at external medical institutions.

2018

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