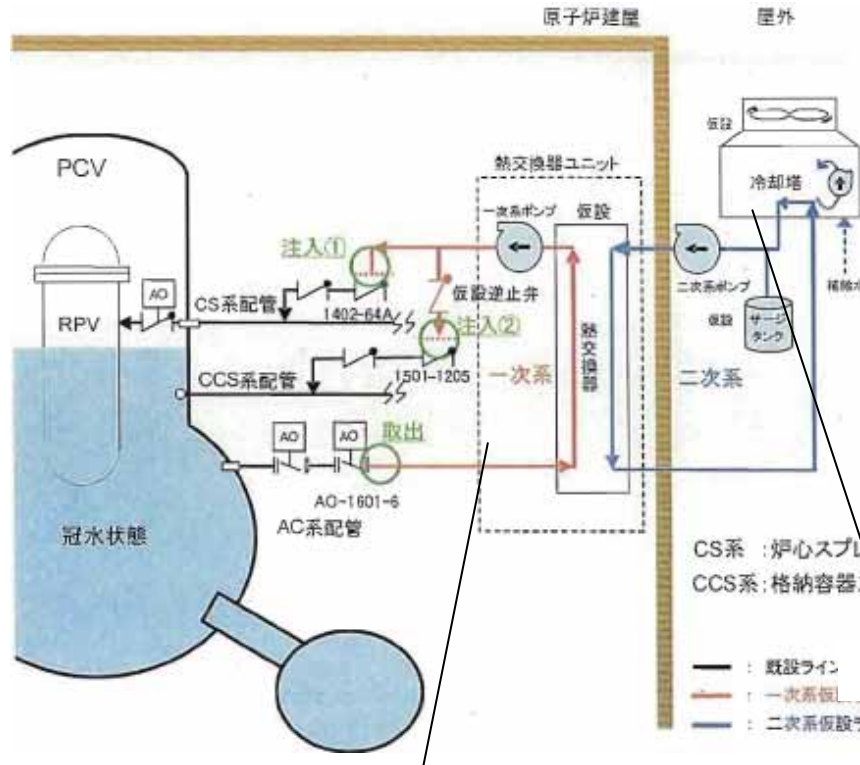



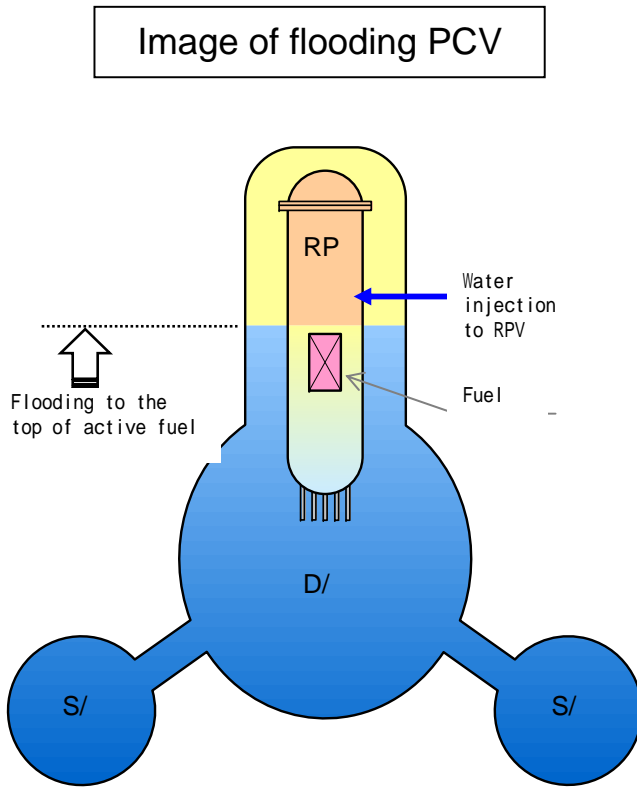

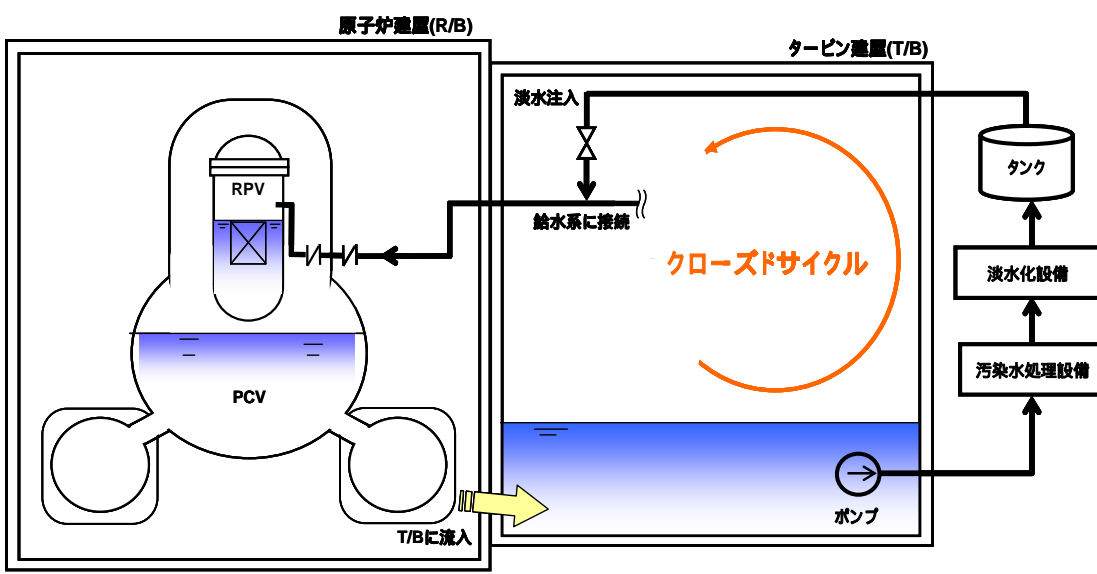




## Progress status of cooling (reactors) (Description)

Issues		Countermeasures	Implementation Status	Photos and figures
(1) Cooling the Reactors I. Cooling	Unit 1	Countermeasure [13] - Recover heat exchange function for the reactor	- Start building secondary heat exchange line (May 13)	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p style="text-align: center; border: 1px solid black; padding: 5px;">Outline of alternative reactor cooling system</p>  </div> <div style="width: 50%;"> <p style="text-align: center; border: 1px solid black; padding: 5px;">Demolished and removed debris at the carry-in gate for large stuff, which would be obstacle for installation of alternative facility (from May 10 to May15)</p>  <p style="text-align: center;">Unit 1 reactor inside (in front of the gate at 1fl)</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p style="text-align: center; border: 1px solid black; padding: 5px;">Plate-type heat</p> </div> <div style="text-align: center;">  <p style="text-align: center; border: 1px solid black; padding: 5px;">air-fin cooler</p> </div> </div>

## Progress status of cooling (reactors) (Description)









Issues		Countermeasures	Implementation Status	Photos and figures	
1. Cooling	(1) Cooling the Reactors	Unit 1	Countermeasure[14] Continue cooling by current minimum water injection rate	<div style="text-align: center;">  <p>Image of flooding PCV</p> <p>The diagram shows a cross-section of the reactor vessel (RP) inside the Primary Containment Vessel (PCV). Water is being injected into the RP from the top. The fuel is located below the water level. The PCV is connected to two Secondary Containment Vessels (S/). Labels include: RP, Water injection to RPV, Fuel, Flooding to the top of active fuel, and D/.</p> </div>	<div style="text-align: center;">  <p>Inspection of water gauge</p> <p>A photograph showing two workers in white protective suits and hard hats inspecting a water gauge in a control room or monitoring area.</p> </div>
			Countermeasure[16] Seal the leakage location in the PCV		
			Countermeasure [9] Flood the PCV up to the top of active fuel		
			Countermeasure [12, 45] Reuse of processed waters reactor coolant	<ul style="list-style-type: none"> <li>- site survey (April 26, May 11)</li> <li>- construction of injection line (May 21)</li> <li>- operation will start when accumulated water process starts</li> </ul>	<div style="text-align: center;">  <p>System outline of water reuse as reactor coolant by processing accumulated water</p> <p>The diagram illustrates a closed-loop system. On the left is the Reactor Building (R/B) containing the RPV and PCV. On the right is the Turbine Building (T/B) containing a pump (ポンプ) and a tank (タンク). The process flow is: 汚染水処理設備 (Polluted water treatment equipment) → 淡水化設備 (Desalination equipment) → タンク (Tank) → 淡水注入 (Fresh water injection) → 給水系に接続 (Connect to the feedwater system) → PCV. A circular arrow labeled 'クローズドサイクル' (Closed cycle) indicates the reuse of water. Labels include: 原子炉建屋(R/B), タービン建屋(T/B), 淡水注入, 給水系に接続, クローズドサイクル, タンク, 淡水化設備, 汚染水処理設備, and ポンプ.</p> </div>
			Countermeasure [12, 45] Establishment of circulating injection cooling	continue to Step 2	

## Progress status of cooling (reactors) (Description)

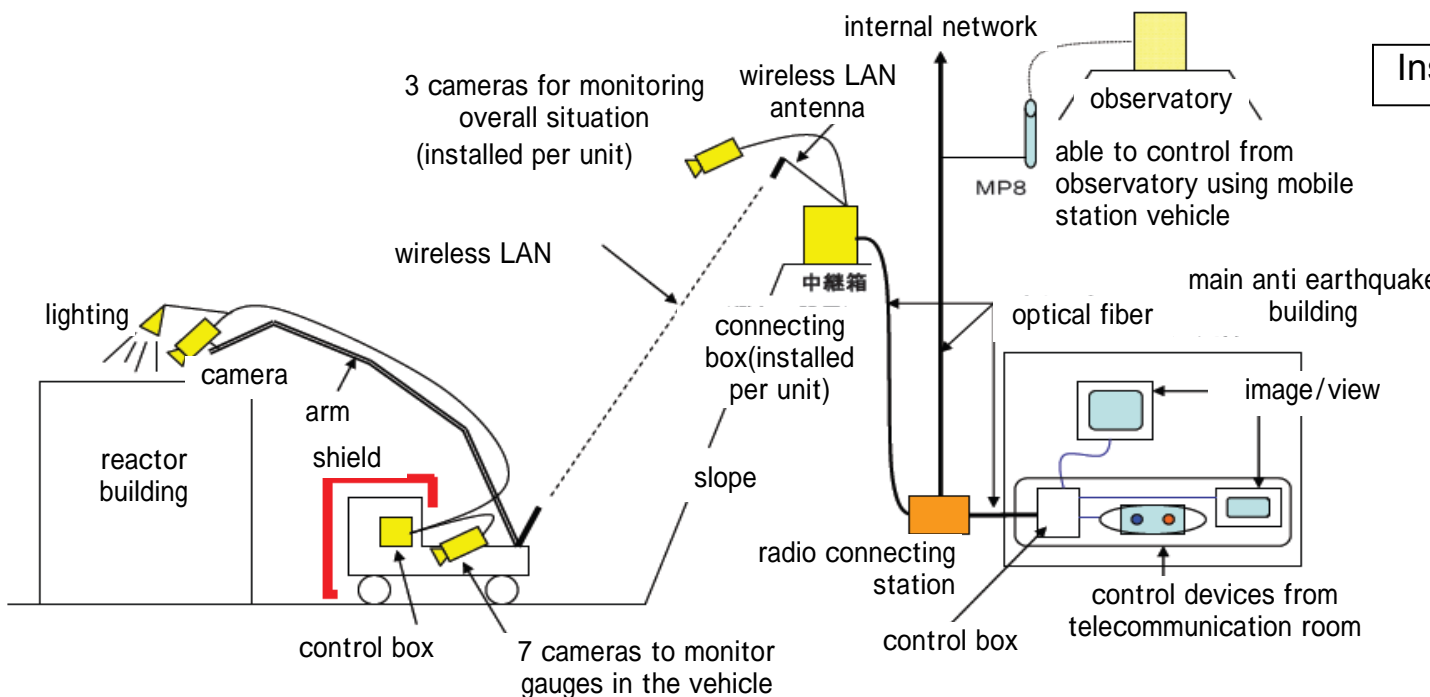

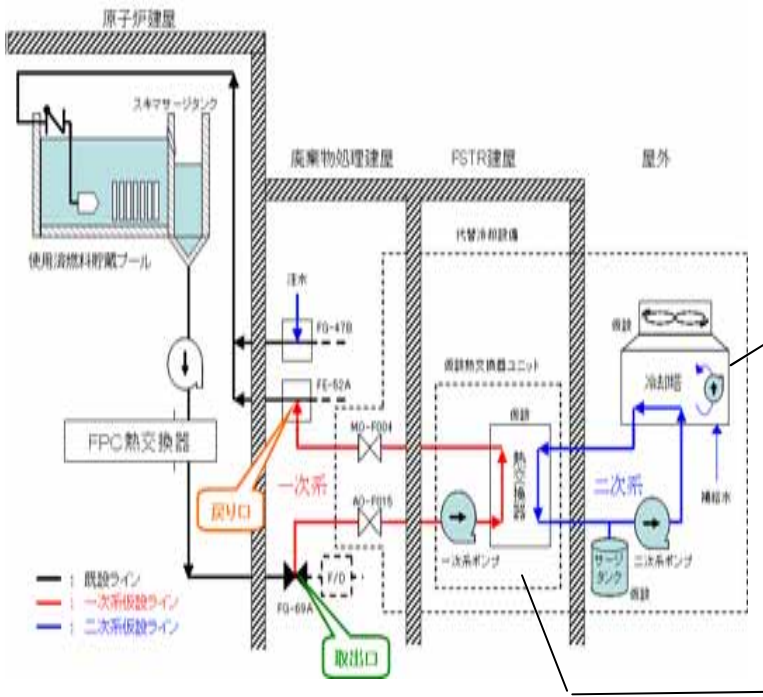

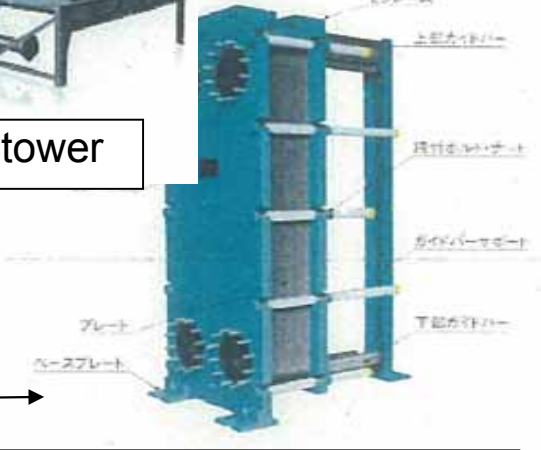
Issues		Countermeasures	Implementation Status	Photos and figures	
1. Cooling	(1) Cooling the Reactors	Unit 2	Countermeasure [76] Improvement of work environment	Measurement of radiation dose, Preparation to enter into the building	
			Countermeasure [11] Inject nitrogen gas into the PCV	Installed piping to the entrance of the building (May 7)	
			Countermeasure [13] Recover heat exchange function for the reactor	-site survey completed (May 8)	
			Countermeasure[6] Consideration of sealing the leakage location in the PCV	- Testing the sealing measure at laboratory  <next step> '-based on the result of test at laboratory, move on to countermeasure [16]	
			Countermeasure[16] Seal the leakage location in the PCV	- Construction will start after checking the feasibility of sealing method	
			Countermeasure [9] Flood the PCV up to the top of active fuel		
			Countermeasure[14] Continue cooling by current minimum water injection rate.	- Injecting water to the extent that enable to store leaked water	
			Countermeasure [12, 45] Reuse of processed water as reactor coolant	-Implementing injection line work (ongoing from April 9) -In service with the launch of accumulated water treatment	
			Countermeasure [12, 14, 45] Establishment of circulating injection cooling	Continue to Step 2	





## Progress status of cooling (reactors) (Description)

Issues		Countermeasures	Implementation Status	Photos and figures
1. Cooling	(1) Cooling the Reactors	Countermeasure [76] Improvement of work environment	-Removal of debris, Measurement of radiation dose, Preparation to enter into the building	<div data-bbox="1258 260 1635 489" style="border: 1px solid black; padding: 2px;">Demolished and removed debris at the carry-in gate for large stuff, which would be obstacle for installation of alternative facility (from May 9 to the end of May)</div> <div data-bbox="1650 268 2071 611" style="display: inline-block;"></div> <div data-bbox="2101 268 2534 625" style="display: inline-block;"></div> <div data-bbox="1673 625 2089 699" style="border: 1px solid black; padding: 2px; display: inline-block;">Broken pillars at the carry-in gate for large stuff in Unit 3</div> <div data-bbox="2101 625 2522 699" style="border: 1px solid black; padding: 2px; display: inline-block;">Inside of the carry-in gate for large stuff in Unit 3</div>
		Countermeasure [11] Inject nitrogen gas into the PCV	Installed piping to the entrance of the building (May 11)	
		Countermeasure [13] Recover heat exchange function for the reactor	-Installation work of heat exchanger will start after the improvement of work environment	
		Countermeasure[6] Consideration of sealing the leakage location in the PCV	-Will confirm the leakage status/temperature etc and choose countermeasure [16] or [14]	<div data-bbox="1270 716 1768 783" style="border: 1px solid black; padding: 2px;">unmanned facilities for debris removal</div> <div data-bbox="1299 825 1516 930" style="border: 1px solid black; padding: 2px; display: inline-block;">Internal Survey</div> <div data-bbox="1537 793 1715 947" style="display: inline-block;"></div> <div data-bbox="1733 884 1813 947" style="display: inline-block;">talon (USA)</div> <div data-bbox="1843 793 2021 947" style="display: inline-block;"></div> <div data-bbox="2050 873 2178 936" style="display: inline-block;">brokk 90 (Sweden)</div>
		Countermeasure[16] Seal the leakage location in the PCV		
		Countermeasure [9] Flood the PCV up to the top of active fuel		
		Countermeasure[14] Continue cooling by current minimum water injection rate.		<div data-bbox="1299 1245 1516 1371" style="border: 1px solid black; padding: 2px;">Removal of debris</div> <div data-bbox="1567 1203 1893 1371" style="display: inline-block;"></div> <div data-bbox="1733 1308 1863 1371" style="display: inline-block;">brokk 330 (Sweden)</div> <div data-bbox="1902 1203 2089 1371" style="display: inline-block;"></div> <div data-bbox="2101 1308 2199 1371" style="display: inline-block;">bob cat (USA)</div>
		Countermeasure [12, 45] Reuse of processed water as reactor coolant	-Implementing injection line work (ongoing from April 16) -In service with the launch of accumulated water treatment	
		Countermeasure [12, 14, 45] Establishment of circulating injection cooling	Continue to Step 2	<div data-bbox="1299 1581 1567 1707" style="border: 1px solid black; padding: 2px;">Vehicle to control unmanned facilities</div> <div data-bbox="1576 1507 1952 1780" style="display: inline-block;"></div> <div data-bbox="1635 1780 1923 1812" style="display: inline-block;">wireless control vehicle</div> <div data-bbox="2041 1514 2427 1787" style="display: inline-block;"></div> <div data-bbox="2131 1791 2377 1822" style="display: inline-block;">wired control vehicle</div>

# Progress status of cooling (Spent Fuel Pool) (Description)




Issues	Countermeasures	Implementation status	Photos and figures
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">1. Cooling</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">(2) Spent Fuel Pools</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Unit 1</p>	<p>Countermeasure[22] Continuation of water injection by "Giraffe", etc</p>	<p>-Reliability improvement: enhanced durability of hoses -Measures to reduce radiation dose: switch to remote-controlled operation (arm, water injection operation)</p>	<p>Image of remote control operation of concrete pumping vehicle</p>  <p>3 cameras for monitoring overall situation (installed per unit) wireless LAN antenna internal network observatory MPB able to control from observatory using mobile station vehicle main anti earthquake building optical fiber image/view control devices from telecommunication room radio connecting station control box connecting box(installed per unit) slope reactor building arm shield control box 7 cameras to monitor gauges in the vehicle lighting camera wireless LAN</p> <p>Installation of camera at the top of the arm</p> 
	<p>Countermeasure[24] Restoration of normal cooling system</p>	<p>-Radiation measurement by <math>\gamma</math>camera and robot(from April 30 to May 6) -Radiation reduction by flushing and shielding facility(from May 11 to May 15)</p>	 <p>Overview of SFP cooling function</p>  <p>cooling tower</p>  <p>plate type heat exchanger</p>
<p>Countermeasure[25,27] Install heat exchanger</p>	<p>-Manufacturing heat exchanger</p>		

## Progress status of cooling (Spent Fuel Pool) (Description)

Issues		Countermeasures	Implementation status	Photos and figures
1. Cooling	Unit 2	Countermeasure[23] Restoration of water injection through normal cooling system		 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Status of debris in Radwaste Building of Unit 2</div>
		Countermeasure[23,27] Install heat exchanger	-Manufacturing heat exchanger -Removed debris in the working area (May 11) -Installation work is under way (from May 16 to the end of May)	
	Unit 3	Countermeasure[22] Continuation of water injection by "Giraffe" etc	-Reliability improvement: enhanced durability of hoses -Measures to reduce radiation dose: switch to remote-controlled operation	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Lifting up sampled water from SFP</div> 
		Countermeasure[24] restoration of normal cooling system	-Confirmation of power system stability through water level measurement by "Giraffe", etc (from May 8 to May 15) -Water injection through normal cooling system (ongoing from May 16)	
		Countermeasure[25,27] Install heat exchanger	-Manufacturing heat exchanger. installation work will start after it is transferred to the site.	
	<p style="text-align: center;">* This is a picture of the unit 4. Actual picture of the unit 3 may</p>			

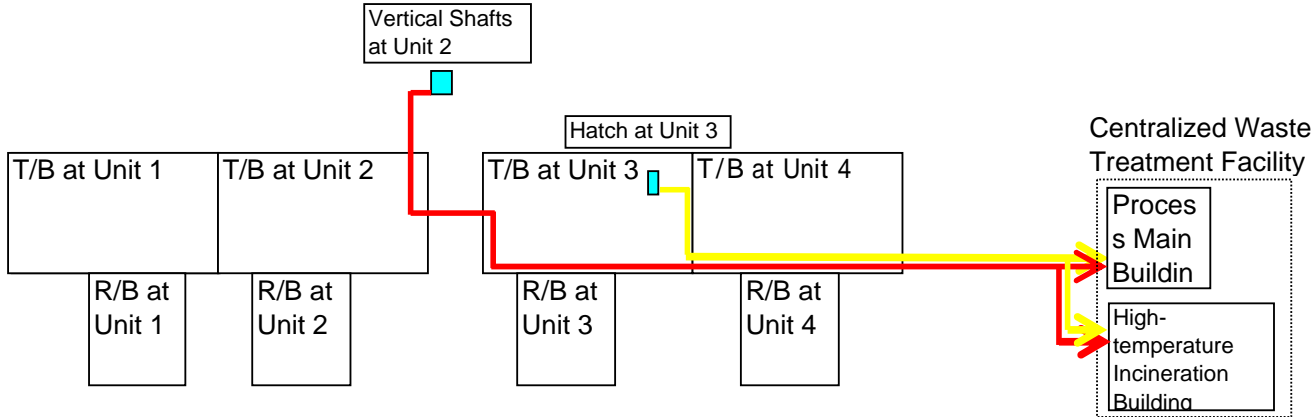
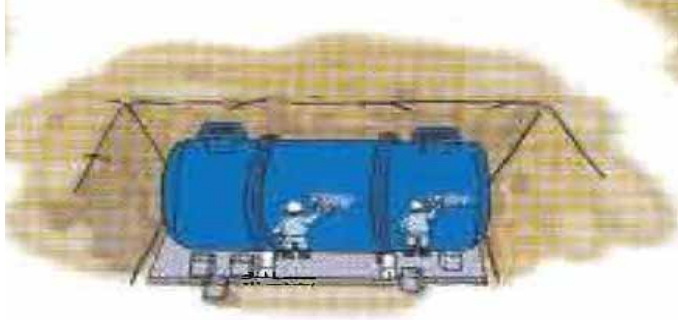



## Progress status of cooling (Spent Fuel Pool) (Description)

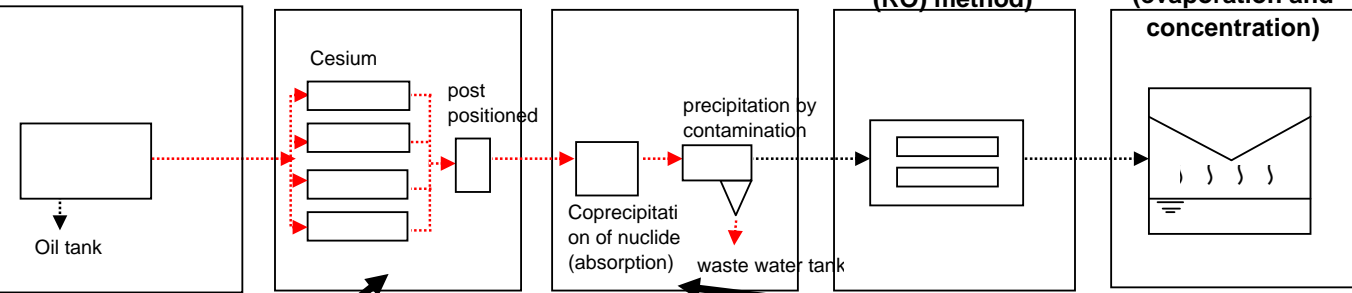




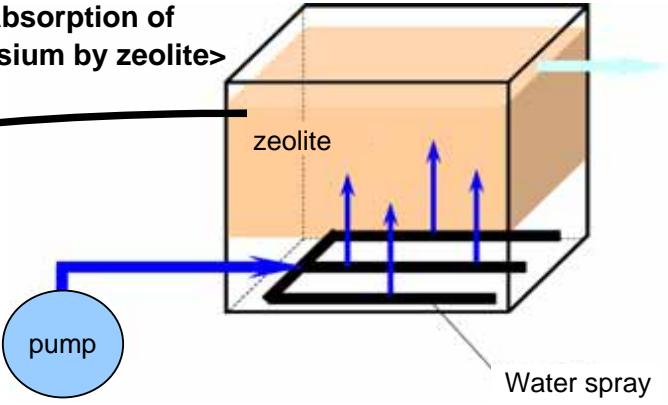
Issues		Countermeasures	Implementation status	Photos and figures
1. Cooling  (2) Spent Fuel Pool	Unit 4	Countermeasure[22] Continuation of water injection by "Giraffe", etc	-Reliability improvement: enhanced durability of hoses -Measures to reduce radiation dose: switch to remote-controlled operation	 <div style="text-align: center; border: 1px solid black; padding: 5px; margin-top: 10px;">                         Water injection by "Elephant No. 2" in Unit 4                     </div>
		Countermeasure[24] Restoration of normal cooling system	-Implementing site survey (from April 19 to the end of May) -Removing debris. restoration work will be started after the removal.	 <div style="text-align: center; border: 1px solid black; padding: 5px; margin-top: 10px;">                         Status of stairs connecting 2nd and 3rd floor in Unit                     </div>
		Countermeasure[25,27] Install heat exchanger	-Manufacturing heat exchanger	 <div style="text-align: center; border: 1px solid black; padding: 5px; margin-top: 10px;">                         Status of SFP inside                     </div>




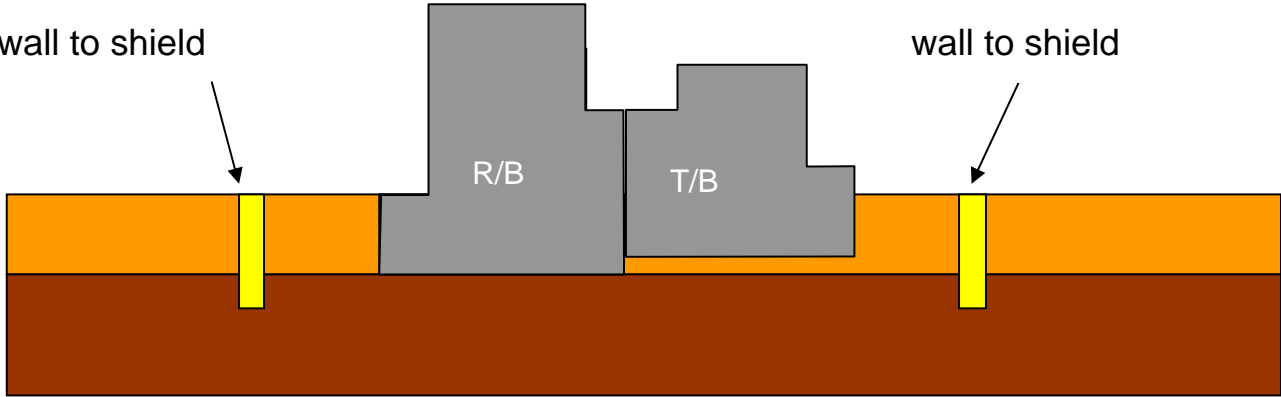
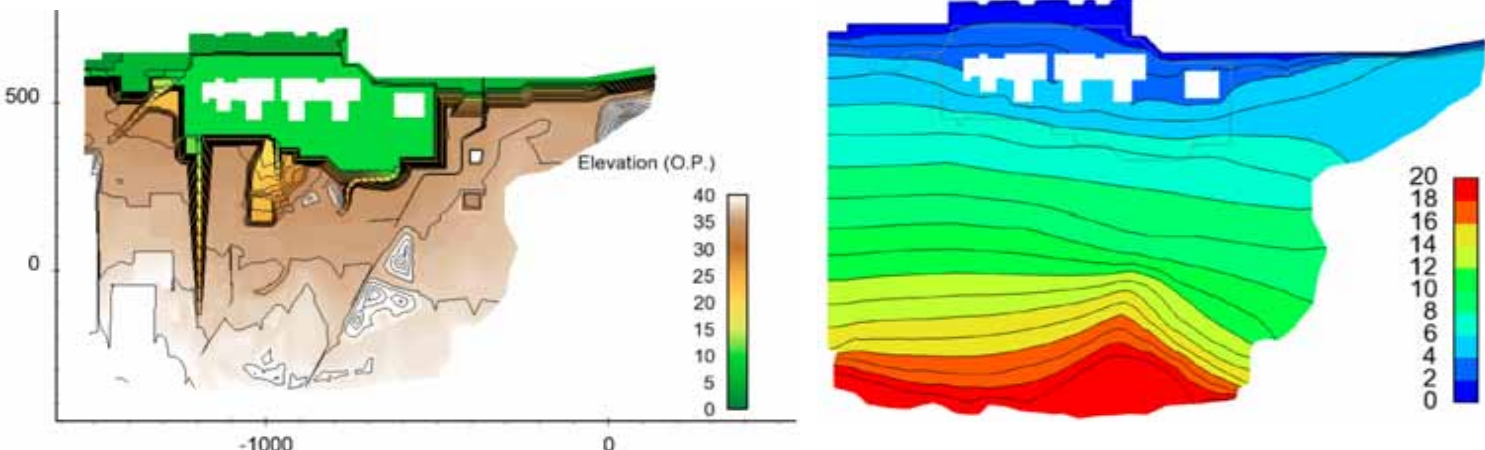
## Implementation status of mitigation (Accumulated Water) (Description)

Issues		Countermeasures	Implementation Status	Photos and figures
II. Mitigation	(3) Accumulated Water	High level	<p>Countermeasure [37, 39, 42] Securing places to store contaminated water</p> <p>[Transferring into Centralized Waste Treatment Facility]</p> <p>-Process Main Building: After conducting waterproof check etc., transport from vertical shafts in Unit 2 started. (April 19)</p> <p>-High-temperature Incineration Building: Now conducting waterproof check etc.</p>	<p>&lt;Transferring into Centralized Waste Treatment Facility&gt;</p> 
			<p>[Installation of tanks]</p> <p>-For receiving treated water approx. 11,000t (May 10)</p> <p>&lt;Implementation hereafter&gt;</p> <p>-For receiving treated water approx. 28,000t (late June) land preparation for underground tanks (from May 16)</p>	 <p style="text-align: center; background-color: blue; color: white; padding: 2px;">Underground tank for highly contaminated water</p>  <p style="text-align: center; background-color: blue; color: white; padding: 2px;">Tanks to receive treated water</p>
			<p>Countermeasure [64] Mitigation of contamination in the ocean</p> <p>- Setting up silt fence - Setting up circulating purification system (end of May)</p> <p>&lt;Implementation hereafter&gt;</p> <p>- Planning for setting up steel sheet pile</p>	
		<p>Countermeasure [65] Isolation of high-level radioactive water</p> <p>- closure of Unit 4 turbine vertical shaft (April 6) - closure of Unit 2&amp;3 turbine vertical shafts (end of May)</p>		

# Implementation status of mitigation (Accumulated Water) (Description)

Issues		Countermeasures	Implementation Status	Photos and figures
II. Mitigation (3) Accumulated Water	High level	Countermeasure [38, 43, 45] Install water processing facilities/treat and store water	[Function to decontaminate contaminated water] -Cesium absorption equipment (Kurion, Inc.): Equipment being manufactured *TEPCO staff residing at the factory is supervising to secure the performance and the schedule Start of foundation work at Site (May 8) Treatment tanks, pumps being installed, piping work underway.  -Radioactivity treatment equipment (Areva SA): Equipment arrival at Site (May 8) Equipment being installed, piping work underway  [Function to desalinate contaminated water] -Desalination equipment (RO method):	<p><b>&lt;Steps for decontamination&gt;</b></p> <p>I. Oil separator    II. Cesium absorption equipment    III. Decontaminant (absorption)    IV. Desalination equipment 1 (reverse osmosis membrane (RO) method)    V. Desalination equipment 2 (evaporation and concentration)</p>   <p>Inspection of parts by TEPCO supervisor (At factory of Kurion, Inc in USA)</p>  <p>Installation of equipments at Fukushima Daiichi Nuclear Power Station</p>
	Low level	Countermeasure [40, 41] Increase storage capacity, Decontaminate contaminated water	Increase storage capacity, removal of contaminated water -Installation of tanks: 2,200 t (May 8) 6,200 t (mid May) 6,400 t (late May) <implementation hereafter> - Installation of tanks: 3,600 t (early June) - Megafloat: 10,000 t (late May) - barge: 1,200 t (late June) 1,000 t (late June)  Utilization of decontaminant (zeolite)  - Installation in the water, absorption of Cesium by zeolite by self circulation - Decontaminate accumulated water in T/B of Unit 6 after transferred to storage tanks for low level contaminated water - Test Operation (from May 3) - Planned full-scale operation (late May)	<p><b>&lt;Megafloat&gt;</b></p>   <p>Decontaminant (zeolite)</p> <p><b>&lt;Absorption of cesium by zeolite&gt;</b></p>  <p>Water spray</p>

## Progress Status of Mitigation (Groundwater) (Description)

Issues	Countermeasures	Implementation Status	Photos and Figures
II. Mitigation (4) Groundwater	Countermeasure [66] Examination of mitigation measures of groundwater contamination	- Implementation of closing work for northern vertical shaft of sea water pipe on Unit 2	 <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span data-bbox="1486 674 1703 701">Input of crushed</span> <span data-bbox="1991 674 2119 701">Concrete</span> <span data-bbox="2427 674 2665 701">Mortar placement</span> </div>
	Countermeasure [67] Implementation of mitigation measures of groundwater contamination	-Restoration of sub drain pump (mid June) - Sub drain management along with expansion plan of storage/processing facility	 <p style="text-align: center; margin-top: 10px;">image of measure to shield groundwater</p>
	Countermeasure [68] Examination of shielding methods of groundwater	- Considering underground water flow based on seepage analysis  <next step> choose most appropriate method to shield underground water by evaluating water shield effect, earthquake resistance, durability	 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span data-bbox="1567 1919 1902 1946">Seepage analysis model</span> <span data-bbox="2169 1898 2653 1961">example: result of Seepage analysis (underground water level)</span> </div>










## Progress status of mitigation (Atmosphere/ soil) (Description)



Issues	Countermeasures	Implementation Status	Photos and figures	
II. Mitigation  (5) Atmosphere / Soil	Countermeasure [52] Dispersion of inhibitors	Continue dispersion of inhibitor  - Test dispersion of inhibitors in the Power Station (from April 1 to April 25) - Full-dress dispersion of inhibitors in the Power Station (from April 26)  (Record of dispersion of inhibitors up to May 12) - In the Power Station (flat land and slope): Dispersion in approx. 105,000 m <sup>2</sup> - Around Units 1 to 4: Dispersion in approx. 49,000 m <sup>2</sup>  <Plan for further implementation> - In the Power Station (flat land and slope): Dispersion in approx. 420,000 by the end of June - Around Units 1 to 4: Dispersion in approx. 12,000 m <sup>2</sup> by the end of May		
			Dispersion of inhibitors in the Power Station (flat land)	Dispersion of inhibitors around turbine buildings of Units 1 to 4
				
			Dispersion of inhibitors in the Power Station (flat land)	Dispersion of inhibitors in the Power Station (flat land)
				
			Dispersion of inhibitors in the Power Station (slope)	After dispersion of inhibitors in the Power Station (slope)



## Progress status of mitigation (Atmosphere/ soil) (Description)

Issues	Countermeasures	Implementation Status	Photos and figures
II. Mitigation  (5) Atmosphere / Soil	<p>Countermeasure [53] Removal of debris</p>	<p>- In order to mitigate exposure dose of the workers and improve work efficiency at the site, we have started removing the debris after storing them in the containers using remote-controlled heavy machinery(hydraulic shovel, crawler dump, bulldozer). (from April 6)</p> <p>- The debris at highly-radioactive area(around the turbine buildings of Units 1 to 4) are removed in preference. (Record of removing debris as of May 10)</p> <p>- 127 containers* of debris are removed.</p> <p>*: (Capacity: 3.2*1.6*1.1m, Approx. 4m3)</p> <p>&lt;Plan for further implementation&gt; We will finish removing the debris outside in the highly-radioactive area by the end of May.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Removing debris with remote-controlled heavy machinery</p> </div> <div style="text-align: center;">  <p>(Container: 3.2*1.6*1.1m, Approx. 4m3)</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>Before removal</p>  </div> <div style="text-align: center;"> <p>After removal</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Temporary containers for collecting debris</p> </div>

## Progress status of mitigation (Atmosphere/ soil) (Description)

Issues	Countermeasures	Implementation Status	Photos and figures
II. Mitigation  (5) Atmosphere / Soil	Countermeasure [54] Installation of reactor building cover	(Unit 1) - Start of preparation work * (from May 13) * { - Maintenance of road for crane - Creation of slope for moving of crane - Maintenance of Shallow Draft Quay	 <p data-bbox="1819 1066 2398 1098">Image of install of reactor building cover for Unit 1</p>
		(Unit 3,4) - On the process of designing	 <p data-bbox="1656 1759 2605 1791">Preparation work for installing reactor containment cover for Unit1</p>



# Progress status of decontamination and monitoring (Description)


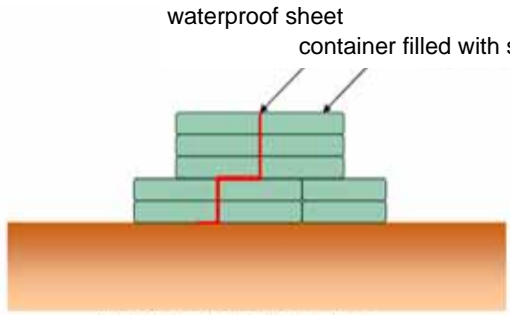



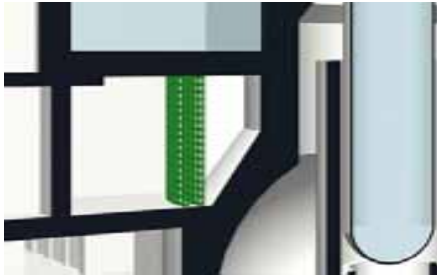
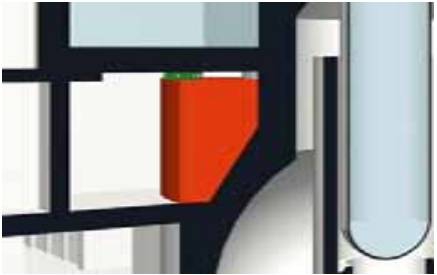


Issues	Countermeasures	Implementation Status	Photos and figures
III. Decontamination/ Monitoring  (6) Measurement, Reduction and Announcement	Countermeasure [60, 61] Expansion, enhancement and announcement of monitoring	Continue monitoring in and out of the power station [Land Area] <Monitoring within 20km radius of the periphery> - Monitoring of airborne radiation at 128 points, and dust concentration at 12 points by the collaboration between MEXT, Power Support Team and TEPCO (April 18) - Monitoring of airborne radiation at 50 points by Power Support Team (from May 6, weekly) - Monitoring at 5 points between 3km and 5km radius of the periphery at the timing of entry in the building of Unit 1 (open the airlock) (May 8 and 9)	<div data-bbox="1765 331 2537 1207"> <p>Result record of airborne radiation (May 6,</p> <p>Location of environment monitoring point within 20km radius of the periphery of Fukushima Daiichi Nuclear Power Station</p> </div> <div data-bbox="860 714 1626 1165"> <p>Monitoring of airborne radiation by Power Support Team (within 20km radius of the periphery at land area)</p> </div> <div data-bbox="854 1239 2724 1879"> <p><b>Dose Rate at Fukushima Daiichi</b></p> <p>Max Dose Rate at Main Gate 3/15 9:00 11930<math>\mu</math>Sv/h</p> <p>&lt;Ground monitoring in accordance with air exhaust from R/B of Unit1 5/8 (Sun) 20:00 ~ 5/9 (Mon) 4:00 · Confirmed that there is no impact to the environment from the monitoring results of radiation dose rate and dust concentration measured at 4 points between 3 and 5 km radius by Power Support team and 1 point in Fukushima Daini</p> </div>

## Progress status of decontamination and monitoring (Description)

Issues	Countermeasures	Implementation Status	Photos and figures
III. Decontamination/ Monitoring  (6) Measurement, Reduction and Announcement	Countermeasure [60, 61] Expand/ enhance monitoring and announce	[Ocean Area] <Fukushima Prefecture> - Monitoring of sea water at 16 points (as of April 17) -> Increase the number of the collecting points to 22 for sea water (from May 5) and 2 points for marine soil (from April 29)  -Fukushima Prefecture Sampling points at front sea area-	<Ibaraki Prefecture> - Start monitoring of sea water at 5 points (from April 29)  -Ibaraki Prefecture Sampling points at front sea area-












## Progress status of countermeasures against aftershocks, etc. (Description)





Issues		Countermeasures	Implementation Status	Photos and figures
IV. Countermeasures against aftershocks, etc.	(7) Tsunami, reinforcement, etc.	Countermeasure [69] Countermeasures against tsunami	<ul style="list-style-type: none"> <li>- Distribution switchboard and temporary DG were moved to the upland (April 15)</li> <li>- Multiplication of water injection line (until April 15)</li> <li>- Setting fire engines in the upland (until April 18)</li> </ul>	 <p style="text-align: center;">planned temporary tide barrier (white dotted line)</p>  <p style="text-align: center;">waterproof sheet container filled with stones</p>  <p style="text-align: center;">仮設防潮堤断面図(イメージ)</p>
		Countermeasure [70] Enhancement of countermeasures against tsunami	<ul style="list-style-type: none"> <li>- Installation of temporary tide barrier (target: middle of June)</li> </ul>	 <p style="text-align: center;">fire engines in the upland</p>  <p style="text-align: center;">Example of construction</p>
		Countermeasure [26] Installation of supporting structure under the bottom of the fuel pool	<ul style="list-style-type: none"> <li>- Soundness of structure was analyzed and evaluated</li> <li>- Removing debris</li> <li>- After removing the debris, installation work starts (around May 23)</li> </ul>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;"> <div data-bbox="1389 1356 1694 1457" style="border: 1px solid black; padding: 2px;">Outline of supporting</div>  <div data-bbox="1724 1612 2071 1650" style="text-align: center;">Steel pillar installation</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;">  <div data-bbox="2309 1612 2525 1650" style="text-align: center;">Concrete wall</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;"> <div data-bbox="1389 1709 1694 1768" style="border: 1px solid black; padding: 2px;">Removing debris</div>  <div data-bbox="1798 1934 2050 1971" style="text-align: center;">Before the work</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;">  <div data-bbox="2249 1934 2472 1971" style="text-align: center;">After the work</div> </div> </div>



Progress status of countermeasures against aftershocks, etc. (Description)

Issues		Countermeasures	Implementation Status	Photos and figures
IV. Countermeasures against aftershocks, etc.  (7) Tsunami, reinforcement, etc.		Countermeasure [72] Preparation of various countermeasures for radiation shielding	<Application of slurry> - Pipe work completed, concrete pumping vehicle arranged (May 17)	<p><b>Practical training at Fukushima Daini</b></p>  <p>Full view of the plant</p>  <p>Slurry production facility (mobile batcher plant)</p>    <p>Situation of pipe laying</p>
		Countermeasure [73] Continuation of various countermeasures for radiation shielding		<p><b>Material/equipment preparation at Fukushima Daiichi</b></p>  <p>Preparation of material (sand)</p>  <p>Situation of pipe laying</p>  <p>Preparation of material</p>  <p>"Elephant No.3"</p>

## Progress status of environment improvement (Description)

Issues	Countermeasures	Implementation Status	Photos and figures
<b>V. Environment Improvement</b>  (8) Life/work environment	Countermeasure [74] Improvement of life/work environment of workers	<ul style="list-style-type: none"> <li>- Improvement of meals, Upgrading of lodging facility</li> <li>- Security of daily life water</li> <li>- Installation of rest station at the site (approx. 600m2)</li> </ul>	<div style="display: flex; justify-content: space-around; align-items: center;">  <div style="border: 1px solid black; padding: 5px; text-align: center;">                         Area space: 270m2                          Capacity 50 personnel                     </div> </div> <p style="text-align: center;">Rest station (in front of Main Anti-Earthquake Building)</p>
	Countermeasure [75] Continuation and enhancement of improvement of life/work environment of workers	<ul style="list-style-type: none"> <li>- Installation of temporary dormitory</li> <li>- Increasing available amount of daily life water</li> <li>- Expansion of rest station at the site and restoration of existing station</li> </ul>	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="text-align: center;">entrance of main anti earthquake building (unit house to manage in-out of workers)</p>  <p style="text-align: center;">entrance of main anti earthquake building (view from inside)</p>  <p style="text-align: center;">radiation measurement inside the building</p> </div>