### [Summary] Current Status of Shika Nuclear Power Station after the 2024 Noto Peninsula Earthquake (as of March 25)

Attachment 1

- OThree of the five off-site power supply transmission lines can currently receive power (required on-site power can be supplied by one off-site power supply line). Cooling of the spent fuel pool is also being sustained, and no safety related issues have occurred. Also, emergency diesel generators for use when off-site power becomes unavailable and multiple backup units consisting of high capacity power supply cars and high voltage power supply cars have been secured.
- OIn restoring the remaining two off-site power supply lines, we are aiming to bring the damaged Naka Noto Substation GIS (Gas Insulated Switchgear) back online by June. Reviews aiming for the complete restoration of the Unit 2 main transformer shall be continued, and we will announce expected dates for restoration of these facilities when ready. We have also started full-scale survey to review any damage to the Unit 2 main turbine.
   ODamaged areas other than the facilities above have generally been restored or have had temporary measures implemented, and we are aiming for complete restoration sometime next fiscal year.

### Response status regarding power supply facilities

Category	No.	Title	Status of response after the previous notification (on January 30).	Plan for future action	Expected date of completion
	1-①	Oil leak from Unit 1 startup transformer and actuation of pressure relief device, activation of sprinkler firefighting system	<ul> <li>Removed No. 4 radiator and replaced conservator rubber bag.</li> <li>Installed anti-vibration fittings on top of all radiators except for the No. 4 radiator, as temporary measure to improve seismic resistance.</li> <li>Power received by Shika Unit 1 via the Shika nuclear power line (275kV) was switched from Unit 2 house power supply interchange to the Unit 1 startup transformer.</li> </ul>	<ul> <li>All six radiators shall be replaced. (scheduled in August 2024)</li> <li>Further survey and review, which includes structural analysis, shall be conducted to evaluate damage to the No. 4 radiator.</li> </ul>	August 2024
Transformer/off∻ite power supply	2-①	Oil leak from Unit 2 main transformer and activation of sprinkler firefighting system, actuation of pressure relief device	Removed No. 11 cooling unit.     Confirmed discharge crater and damage on the T phase bushing. Also confirmed discharge crater on the bushing case.     Although traces of carbon were found on the wall of the transformer unit, no anomalies were confirmed on the coil and iron core. No anomalies were confirmed on the R and S phase bushings and its bushing cases.     Cracks in the coating of No. 1-10 cooling unit upper pipe joint were peeled and inspected visually; and damage was confirmed.	<ul> <li>Method of restoration (scope of replacement, work method, test method, etc.) is currently being reviewed while considering results of internal inspection, and the date of restoration is undecided.</li> <li>Further survey and review, which includes structural analysis, shall be conducted to evaluate damage to the No. 11 cooling unit.</li> </ul>	Undecided (to be reviewed while considering inspection results)
	Common-3	Confirmed oil slick on the sea surface in front of the power station	<ul> <li>Removed gravel from the oil retainer holding leaked oil and confirmed that oil retainer and underground tank were not damaged.</li> <li>Crushed stone outside the oil retainer, gutter and road (pavement) where oil had scattered, were designated as the source of oil leak, and crushed stones were removed and the subject area cleaned.</li> </ul>	<ul> <li>Establish response procedure to be used (such as operation of discharge gate, etc.) when discovering oil leak on station premises.</li> <li>Install oil trap in gutters. (scheduled for October 2024)</li> </ul>	October 2024
	Common-④	Status of off-site power supply (transmission line, substation facilities)	Replaced two insulators on the Shika Naka Noto Line.     Replaced jumper connecting terminal and jumper line (one) on the Akasumi line.	<ul> <li>No further maintenance planned for the Akasumi line 66kV</li> <li>Regarding Shika Naka Noto 500kV line, loss of insulator on the transmission line (two spots) and damage to bushing (insulator) on Naka Noto Substation GIS (Gas Insulated Switchgear) were confirmed, and insulators shall be repaired quickly in the future and GIS bushing to be replaced by June 2024.</li> </ul>	June 2024
Emergency power supply	1-99	Automatic shutdown during trial run of Unit 1 high pressure core spray diesel generator	-	_	Completed
Other transformer	1-@	Actuation of pressure relief devices of Unit 1 house transformer and main transformer	-	<ul> <li>Visual inspection to be conducted by the end of February 2024, and actuated pressure relief device to be manufactured and replaced by the first half of FY2024.</li> </ul>	First half of FY2024
transformers are not used during shutdown,	2-5	Actuation of pressure relief valve of Unit 2 excitor transformer	• Replaced pressure relief valve. Confirmed that there were no anomalies in the low voltage electric test.	_	Completed

#### Response status for other facilities (excluding response completed before January 30th)

Category	No.	Title	Status of response after the previous notification (on January 30).	Plan for future action	Expected date of completion
Cooling water/make up water related Pipes with leaks were used to transfer	1-3	Reduction of Unit 1 turbine component cooling water system surge tank level	Performed repairs on the damaged cooling coil.	_	Completed
cooling water for air conditioning and water to clean analysis equipment; therefore, does not impact nuclear safety.	1-5	Reduction of Unit 1 pure water tank level	_	• Repair for leaking area to be performed during FY2024.	During FY2024
Low pressure turbine related Occurring while turbine was shutdown, and does not impact nuclear safety.	2-3	"Expansion difference large" annunciator setoff at Unit 2 low pressure turbine	<ul> <li>Started inspection of turbine</li> <li>Confirmed cracks on welded areas of the generator bearing housing.</li> <li>Confirmed floating of thrust bearing housing and loose bolts, etc.</li> </ul>	Turbine to be inspected around the first half of FY2024, and repairs and restoration to be performed after checking for any damage.	Undecided (to be reviewed while considering inspection results)
Spent fuel storage pool related Falling article was lightweight, and fell at a location remote from fuel, and therefore does not impact spent fuel.	2-④	Articles falling into Unit 2 spent fuel storage pool	• Work is in progress to collect articles that fell in.	Collection of articles planned to be completed by the end of March.	During FY2023
	1-④	Inclination of Unit 1 discharge tank sea wall	_	• Restoration to be completed during FY2024 based on detailed survey involving measurement of subsidence.	During FY2024
Building/on-site road related	1-⑦	Foundation of Unit 1 discharge tank and Unit 1 component cooling discharge connection tank sea wall subjected to subsidence	-	• Restoration to be completed during FY2024 based on detailed survey involving measurement of subsidence.	During FY2024
	1-®	Ground becoming uneven at location where Unit 1 high voltage power car is used	-	• Recoating using asphalt planned to be conducted by the first half of FY2024.	First half of FY2024
Facilities continue to satisfy required functions, and damages are minor, and safety and performance are not affected.	Common-①	Units 1, 2 waste treatment building expansion joint seal cover becoming detached	• Replaced seal cover.	-	Completed
	Common-@	Subsidence of paved concrete at the reclaimed loading area	<ul> <li>Detailed survey confirmed subsided area and volume.</li> <li>Measures taken for temporary restoration to eliminate uneven ground using sandbags. Repairs using concrete is in progress.</li> </ul>	<ul> <li>After conducting detailed survey such as measurement of subsidence by the end of January 2024, restorations are</li> <li>to be completed by the first half of FY2024 in preparation for FY2024 loading work (of low level radioactive waste, etc.)</li> </ul>	First half of FY2024

#### Attachment 1 Reference (1/3) **Current Status of Shika Nuclear Power Station after the 2024 Noto Peninsula Earthquake (as of March 25)**



After the above, insulating oil flowed once again into the front sea area; therefore, oil fences were installed along the coast and oil absorbing materials were installed in the drain to improve the situation. Reinforced monitoring is also in progress.

Removed gravel from the oil retainer holding leaked oil and confirmed that oil retainer and underground tank were not damaged.

Crushed stone outside the oil retainer, gutter and road (pavement) where oil had scattered, were designated as the source of oil leak, and crushed stones were removed and the subject area cleaned. ⇒Oil has been treated and collected. In addition, oil fences have been installed, and there is no impact on the coast.

#### Pressure relief device/pressure relief valve actuation

Pressure relief device/valve of Unit 1 main transformer, house transformer, Unit 2 excitor transformer were actuated, but this is normal and does not present any issues.

⇒Subject transformers are not used during shutdown, and there is no impact on nuclear safety.

(1-6), 2-5)

off-site power transmission lines, and integrity of three diesel generators has been confirmed.

#### $\Rightarrow$ Unit 1 has secured three off-site power

transmission lines and three emergency diesel generators, and there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.

(1-9)



## Current Status of Shika Nuclear Power Station after the 2024 Noto Peninsula Earthquake (as of March 25)



Concrete pavement of reclaimed land unloading dock (common-2)), Unit 1 drain tank and Unit 1 component cooling discharge connecting tank sea wall foundation (1-7)), subsidence at area in proximity to where Unit 1 high capacity power car is used (1-8)), Unit 1 drain tank sea wall tilting (1-4), Units 1 and 2 waste treatment building expansion joint seal cover falling off (common-1))

### Current Status of Shika Nuclear Power Station after the 2024 Noto Peninsula Earthquake (as of March 25) Attachment 1\_Reference (3/3)

Some facilities did receive damage from the 2024 Noto Peninsula Earthquake, but off-site power and necessary monitoring features, cooling features and emergency power supply were secured, and main buildings and on-site roads, etc. were not damaged. No issues have arisen for securing the safety of reactor facilities.



Attachment 2

[as of March 25, 2024]

## \*Blue, underlined text indicates areas updated after disclosure on January 30th (Scheduled response period is currently under review)

## \*Response has been completed for yellow hatched areas (all temporary measures have been completed)

### Shika Nuclear Power Station Unit 1

No.	Date disclosed	Title	Event overview	Response status
1-①	2024/1/2	Unit 1 Oil leak from startup transformer and actuation of pressure relief device, activation of spray firefighting system	<ul> <li>Confirmed that approx. 3,600 liters (estimate) of insulating oil* from the transformer had leaked into the weir.</li> <li>*Amount held: 52,200 liters (in the main unit of transformer: 42,000 liters)</li> <li>Confirmed that pressure relief device had actuated when the earthquake occurred.</li> <li>Manually activated spray firefighting system</li> <li>Switched to standby transformer, and currently receiving power from the Akasumi line (66kV). Can also receive power from the Shika nuclear power line (275kV) via the Unit 2 electrical power distribution system. Also, emergency diesel generators, high capacity power cars and high voltage power cars have been secured as emergency power sources.</li> <li>⇒Necessary off-site power and emergency power sources have been secured, and there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.</li> </ul>	<ul> <li>Approx. 4,200 liters have been collected on January 2<sup>nd</sup> when including rain water.</li> <li>Closed the gate valve of the radiator leaking insulating oil, and conducted covering to prevent intrusion of rainwater. Also, gate valves for other radiators were closed to prevent leak of insulating oil caused by damage from after quakes.</li> <li>Removed No. 4 radiator and replaced conservator rubber bag.</li> <li>Confirmed that there were no anomalies in the low voltage electric test.</li> <li>Installed anti-vibration fittings on top of all radiators except for the No. 4 radiator, as temporary measure to improve seismic resistance.</li> <li>Conducted confirmation tests, and restored to condition where power can be received</li> <li>On March 14, power received by Shika Unit 1 via the Shika nuclear power line (275kV) was switched from Unit 2 house power supply interchange to the Unit 1 startup transformer.</li> <li>Replacement of all six radiators (No. 1-6) scheduled for August 2024.</li> <li>Further survey and review, which includes structural analysis, shall be conducted to evaluate damage to the No. 4 radiator.</li> </ul>
1-2	2024/1/2	Unit 1 Scattering of spent fuel storage pool	<ul> <li>Confirmed sloshing in spent fuel storage pool.</li> <li>Amount scattered is approx. 95 liters (approx. 0.8mm decrease in pool inventory), amount of radiation is approx. 17,100Bq, no impact of radiation outside.</li> <li>⇒Almost no changes to pool level, and there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.</li> </ul>	<ul> <li>Wiped scattered water on January 4<sup>th</sup>.</li> <li>Spent fuel currently being cooled in stable condition.</li> </ul>

Attachment 2

No.	Date disclosed	Title	Event overview	Response status
1-3	2024/1/2	Unit 1 Reduction of turbine component cooling water system surge tank inventory	<ul> <li>Cooling water leaked from the cooling coil of the heating, ventilation and air conditioning system (hereinafter "HVAC") of the Reactor Building and Turbine Building.</li> <li>⇒Cooling water is for air conditioning, and there is no impact on nuclear safety.</li> </ul>	<ul> <li>Valves were closed and decrease in levels were confirmed to have stopped.</li> <li>On February 29, performed repairs on the damaged cooling coil.</li> </ul>
1-④	2024/1/2	Unit 1 Inclination of discharge tank sea wall	<ul> <li>The steel sea wall (height 4m) autonomously installed as tsunami measures around the Unit 1 discharge tank (perimeter approx. 108m), was confirmed to have inclined by approx. several cm due to impact of the earthquake.</li> <li>⇒The deformation is minor and has no impact on performance. No other inclination was identified.</li> </ul>	<ul> <li>Installed sandbags in the gap identified between the discharge tank sea wall and concrete foundation.</li> <li>Conduct detailed survey in the future to measure subsidence, etc., and based on results, plan restoration in FY2024.</li> </ul>
1-(5)	2024/1/2	Unit 1 Reduction of pure water tank inventory	<ul> <li>Confirmed the inventory of pure water tank to be decreasing by about approx. 7.3 liters (438 liters/hour) every minute.</li> <li>Amount leaked was tiny compared to production capability for pure water (20,000 liters/hour)</li> <li>⇒Water in the pure water tank are to be used to clean analysis equipment, and there is no impact on nuclear safety.</li> </ul>	<ul> <li>Identified leaking pipe which was buried outdoors. Valve was closed, and confirmed that reduction of inventory levels had stopped.</li> <li>Pure water was supplied to the destination of pipe subject to leak using different means. Repair for leaking area to be performed during FY2024.</li> </ul>
1-6	2024/1/5	Unit 1 Actuation of pressure relief devices of house transformer and main transformer	<ul> <li>Confirmed actuation of pressure relief devices of Unit 1 house transformer and Unit 1 main transformer during earthquake.</li> <li>(Oil enclosed in the transformer sloshed around during an earthquake, causing the internal pressure to rise temporarily, causing the pressure relief device to actuate correctly. Confirmed that there are no oil leaks from the event.)</li> <li>⇒Actuation of pressure relief devices of the house transformer and main transfer were confirmed, but this is normal and without issue.</li> </ul>	<ul> <li>Visual inspection was conducted for the main transformer, and no anomalies were confirmed.</li> <li>Visual inspection was conducted for house transformer. Although cracks were confirmed in the reinforcing plate and fin welds of all radiators, confirmed that there were no abnormal performance of function.</li> <li>Regarding actuated pressure relief device, new devices shall be manufactured and replaced by the first half of FY2024.</li> </ul>

Attachment 2

No.	Date disclosed	Title	Event overview	Response status
1-77	2024/1/5	Unit 1 Foundation of discharge tank and Unit 1 component cooling discharge connection tank sea wall subjected to subsidence	<ul> <li>The foundation of the steel sea wall (height 4m) autonomously installed as tsunami measures around the Unit 1 discharge tank and Unit 1 component cooling discharge connecting tank, was confirmed to have subsided by approx. several cm due to impact of the earthquake.</li> <li>⇒There are no abnormalities with the exception of the partial incline of the sea wall (1-4), and sandbags were installed in gaps of few cm confirmed at the subsided area; therefore, there is currently no impact on function.</li> </ul>	<ul> <li>Sandbags installed in gaps confirmed between discharge tank sea wall and concrete foundation.</li> <li>Conduct detailed survey in the future to measure subsidence., and based on results, plan restoration in FY2024.</li> </ul>
1-®	2024/1/5	Unit 1 Ground becoming uneven at location where Unit 1 high voltage power car is used	<ul> <li>Confirmed that unevenness of several cm had appeared on the road near the site where Unit 1 high voltage power car is used.</li> <li>⇒The high voltage car can be used without issue of deployed in a different area nearby; therefore, there is no impact.</li> </ul>	<ul> <li>Access restriction indication posted for subject area.</li> <li>Recoating of uneven area using asphalt planned to be conducted by the first half of FY2024.</li> </ul>
1-9	2024/1/17	Unit 1 Automatic shutdown during trial run of high pressure core spray diesel generator	<ul> <li>After Shika Town experienced an earthquake of intensity five lower on January 16<sup>th</sup>, trial run of Unit 1 high pressure core spray diesel generator was conducted as safeguard measures, but subject generator shutdown automatically. No abnormality was observed in the trial run (conducted January 4<sup>th</sup>) conducted following the Shika Town earthquake of intensity seven on January 1<sup>st</sup>.</li> <li>⇒No impact on power supply as three off-site power lines (Akasumi line (66kV one line) and Shika nuclear power line (275kV two lines) are secured, and two out of three Unit 1 emergency diesel generators are sound.</li> </ul>	<ul> <li>Regarding this event, causal survey did not identify abnormality in equipment. Also, no abnormality was identified in the load test carried out afterwards.</li> <li>Applied changes to procedures regarding measures to be taken against estimated cause, and high pressure core spray diesel generator was put on standby.</li> </ul>

Attachment 2

[as of March 25, 2024]

### Shika Nuclear Power Station Unit 2

No.	Date disclosed	Title	Event overview	Response status
2-①	2024/1/2	Unit 2 Oil leak from main transformer and actuation of pressure relief device, activation of spray firefighting system	<ul> <li>Confirmed that approx. 3,500 liters (estimate) of insulating oil* from the transformer had leaked into the weir.</li> <li>*Amount held: 122,500 liters (in the main unit of transformer: 122,500 liters)</li> <li>Confirmed actuation of pressure relief device and spray firefighting system. (also confirmed that there was no actual fire)</li> <li>Switched to standby transformer, and currently receiving power from the Shika nuclear power line (275kV). Can also receive power from the Akasumi line (66kV). Also, emergency diesel generators, high capacity power cars and high voltage power cars have been secured as emergency power sources.</li> <li>⇒Necessary off-site power and emergency power sources have been secured, and there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.</li> </ul>	<ul> <li>Approx. 19,800 liters of oil have been collected on January 5th (estimated). (When including rain water, approx. 24,600 liters. Amount collected corrected (January 5<sup>th</sup>))</li> <li>Closed the gate valve of the radiator leaking insulating oil, and conducted covering to prevent intrusion of rainwater. Also, gate valves for other radiators were closed to prevent leak of insulating oil caused by damage from after quakes.</li> <li>Removed No. 11 cooling unit.</li> <li>Confirmed discharge crater and damage on the T phase bushing. Also confirmed discharge crater on the bushing case.</li> <li>Although traces of carbon were found on the wall of the transformer unit, no anomalies were confirmed on the coil and iron core. No anomalies were confirmed on the R and S phase bushings and its bushing cases.</li> <li>Cracks in the coating of No. 1-10 cooling unit upper pipe joint were peeled and inspected visually; and damage was confirmed.</li> <li>Method of restoration (scope of replacement, work method, test method, etc.) is currently being reviewed while considering results of internal inspection, and the date of restoration is undecided.</li> <li>Further survey and review, which includes structural analysis, shall be conducted to evaluate damage to the No. 11 cooling unit.</li> </ul>
2-@	2024/1/2	Unit 2 Scattering of spent fuel storage pool	<ul> <li>Confirmed sloshing in spent fuel storage pool.</li> <li>Amount scattered is approx. 326 liters (approx. 1.3mm decrease in pool inventory), amount of radiation is approx. 4,600Bq, no impact of radiation outside.</li> <li>⇒Almost no changes to pool level, and there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.</li> </ul>	<ul> <li>Wiped scattered water on January 3<sup>rd</sup>.</li> <li>Spent fuel currently being cooled in stable condition.</li> </ul>

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No.	Date disclosed	Title	Event overview	Response status
		Unit 2	Annunciator "expansion difference large" was setoff due to	Started inspection of turbine from March 8
		"Expansion difference large"	swaying from earthquake.	• When the turbine lubricating oil system was started up to separate
2-3	2024/1/2	annunciator setoff for low pressure	$\Rightarrow$ Occurred when turbine was shutdown, and does not impact securing of nuclear safety.	turbine and generator shaft joint, there was dripping of oil from the
		turbine		bottom of the generator shaft bearing (1 drop/min.), and cracks were
				confirmed on some welded areas. Repairs to be performed in the future.
				• Confirmed floating of thrust bearing housing* and loose bolts, etc.
				Detailed inspection and repairs to be performed in the future.
				• Turbine inspection to be performed around the first half of FY2024, and
				after confirming damage, repairs and restoration are to be conducted.
				* Housing containing thrust bearing which receives force applied to the
				axial direction
		Unit 2	Confirmed that one of the parts used for reactor coolant recirculation pump	• From March 19, work is in progress to collect articles that fell in.
2-1	2024/1/2	Articles falling into spent fuel	inspection, stored in the Unit 2 spent fuel storage pool had fallen to the bottom of the pool.	(Collection scheduled to be completed by the end of March)
2-0	2024/1/2	storage pool	$\Rightarrow$ The subject article is light (polyester material), and fell at a location remote from fuel (approx.	
			4m); therefore, there is no impact to spent fuel.	
		Unit 2	· Confirmed that actuation of pressure relief valve at the top of transformer caused approx. 100	Approx. 100 liters of oil collected on January 5th.
		Actuation of pressure relief valve	liters (estimated) of insulation oil of transformer to be discharged to the weir via feed tube.	• On February 26, replaced pressure relief valve, and conducted low
		of exciter transformer	(Earthquake causing the oil in transformer to slosh resulted in temporary increase of internal	voltage electric test.
2-5	2024/1/3		pressure which led to the normal actuation of the pressure relief valve.)	
			⇒The exciter transformer is used during plant operation; therefore, there is no impact on nuclear	
			safety.	
		Unit 2	• Reconfirming power station data from January 1 <sup>st</sup> confirmed that Unit 2 intake tank seawater	• Confirmed an increase of approx 3m in the Unit 2 intake tank using a
		Increase of seawater level inside	level had increased by approx. 3m compared to normal levels.	level gauge, and fluctuations in sea levels was analyzed. Also, the
		intake tank	$\Rightarrow$ Sea embankment and sea wall 4m high are installed at EL11m on site premises; therefore, an	data for intake tank levels was used to perform analysis, and
			increase of approx. 3m will not have an impact on power station facilities.	evaluation concluded that there was an increase of approx. 3m in
	2024/1/3			levels near the intake port.
2-6				Furthermore, collection, analysis and evaluation of data from the
	2024/3/25			wave meter confirmed that there approx. 3m of sea level increase
	(Added)			near the unloading dock.
				Analysis and survey of traces were conducted regarding the tsunami
				run-up height in front of the site, and results confirmed subject
				height to be approx. 4m.

Attachment 2

[as of March 25, 2024]

### Common for Shika Nuclear Power Station Units 1 and 2

No.	Date disclosed	Title	Event overview	Response status
		Units 1, 2	· Confirmed that metallic cover, which protects the rubber sealing material	Replaced seal cover on March 19.
		Waste treatment building	(expansion) connecting Units 1 and 2 waste treatment buildings, had become	
		expansion joint seal cover	detached. Also, subject seal cover functions as a degradation prevention part for	
Common-(1)	2024/1/2	becoming detached	sealing material.	
			$\Rightarrow$ Confirmed that there was no damage to sealing material. Also, there was no	
			radiological impact outside.	
		Subsidence of paved concrete	• At the reclaimed part of the loading area, paved concrete had subsided as a result	Conducted detailed survey to confirm scope of subsidence and
		at the reclaimed loading area	of the earthquake, causing uneven ground.	volume subsided.
			$\Rightarrow$ No structural issue regarding the loading area.	Measures taken for temporary restoration to eliminate uneven
Common-2	2024/1/5			ground using sandbags. Repairs using concrete is in progress.
				• After conducting detailed survey of subsidence by the end of
				January 2024, restoration is to be conducted by the first half of
				FY2024 in preparation of loading work for FY2024 (low level
				radioactive waste).
		Oil film being confirmed on	• Confirmed oil film (approx. 5m by 10m) floating on the sea surface in front of the	Oil film was treated using neutralizers on January 7th.
		the sea in front of the power	Shika Nuclear Power Station	· Confirmed that the station in general was not subjected to other oil
		station	• Actuation of spray fire fighting system in the event of the January 1 earthquake	leaks.
	2024/1/7		caused leaked insulation oil of the transformer to scatter, and it is assumed that	· Install oil fence, and continued focused monitored to check for
			subject oil flowed out into the sea via drain after rainfall.	residual oil in drains.
			$\Rightarrow$ Leaked oil was neutralized and collected, and there is no impact on the	
			environment.	
		Oil film being confirmed on	• Oil film was confirmed in the drain around the Unit 2 main transformer, and	• Installation of oil absorbing mats in the drain was improved, and
		the sea in front of the power	confirmation of the downstream side confirmed oil film floating on the ocean in	strong monitoring resulting from the increase in monitoring
		station	front of the power station (approx. 100m by 30m, approx. 6 liters)	frequency is continued.
Common-③			$\Rightarrow$ There is no environmental impact of installing oil fence on the coast.	Discharge gate for rain water installed in the drain downstream, and
				sea surface oil fence installation status is monitored round-the-clock
	2024/1/10			and continuously strengthened.
				• Removed gravel from the oil retainer holding leaked oil and confirmed
				that oil retainer and underground tank were not damaged.
				• Crushed stone outside the oil retainer, gutter and road (pavement)
				where oil had scattered, were designated as the source of oil leak, and
				crushed stones were removed and the subject area cleaned.
				• Establish response procedure to be used (such as operation of discharge
				gate, etc.) when discovering oil leak on station premises.
				• Install oil trap in gutters. (scheduled for October 2024)

Attachment 2

No.	Date disclosed	Title	Event overview	Response status
		Status of offsite power supply	Conducted inspection of transmission line connected to Shika Nuclear Power	
		(transmission line, sub-station	Station, and confirmed the following:	
		facilities)	(Shika nuclear power line 275kV two lines)	
			• No abnormality	
			(Akasumi line 66kV one line)	(Akasumi line 66kV)
			• An insulator for the transmission line (one piece) and disconnected wire (one	Replaced damaged insulation (one piece) and disconnected jumper line
			area) on the jumper line (cable connecting insulation device before and behind	(one area) on January 13th (Saturday).
			steel towers were confirmed, but there currently are no issues regarding	On February 10, replaced jumper connecting terminal and jumper line
			performance of transmission lines.	(one area).
			[No. 5 steel tower: one out of six damaged]	
			[No. 3 steel tower: five out of 30 wires disconnected]	
			• Confirmed deformation (one location) of jumper connecting terminal on the	
			Akasumi line No. 10 steel tower (notified February 9).	
			(Shika Naka Noto 500kV two lines)	(Shika Naka Noto 500kV)
			• Confirmed damaged gas insulated switchgear (GIS) bushing (insulating tube)	On January 31, replaced two transmission line insulators.
			in the Naka Noto Sub-station, damaged isolation on transmission line (two	Damaged GIS bushing (insulating tube) in the Naka Noto Sub-station
			locations).	shall be replaced by June 2024.
	2024/1/0		[Line 2 switchyard anchor structure: 4 out of 53 damaged]	
Common-(4)	2024/1/9		[Line 1 No. 2 steel tower: 1 out of 36 damaged]	
			• One out of two lines of the Shika Naka Noto line is online, and the Unit 2	
			main transformer is also out of service and cannot receive power.	
			• Three lines (Shika nuclear power line No. 1 line, Shika nuclear power line No. 2	
			line, Akasumi line) are connected to Shika Nuclear Power Station as off-site	
			power, and power can be supplied to both Units 1 and 2.	
			Also, emergency diesel generators, high capacity power cars and high voltage	
			power cars have been secured as emergency power sources.	
			⇒Necessary off-site power and emergency power sources have been secured, and	
			there is no impact on nuclear safety, such as capabilities to cool spent fuel, etc.	