Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks)(1/3)

[Inspection/Restoration Status]

◆From February 17th, 2008 (Sun) to !				I	I	
System/Equipment	Items	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Mar. 2nd (Sun) to Mar. 8th (Sat)	Mar. 9th (Sun) to Mar. 15th (Sat)	Status of Inspection/Restoration
Unit No.1 Reactor facilities	Refueling floor service tools inspection (stud tensioners, etc.)					Inspection completed on Feb. 19.
	Reactor pressure vessel inspection					Inspection of nozzle parts etc. planned from Jan. 10 to Mar. 7.
	Pressure suppression chamber inspection			7		Inspection planned from Jan. 28 to Mar. 1.
	Fuel / control rod inspection ®	_				Visual inspection of fuels to be commenced in late April. Visual inspection of channel boxes to be commenced in late April. Visual inspection of control rod planned from feb. 15 to Feb. 22.
Turbine facilities	Turbine internal inspections ²					Low pressure turbine (B) internal inspection completed on Nov. 30.
Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building					Provisional restoration of low conductivity waste system (A) completed on Oct. 15, and (B) completed on Dec. 17.
						Provisional restoration of high conductivity waste system (A) completed on Nov. 9, and (B) completed on Dec. 26. Provisional restoration of storm drain system (B) completed on Dec. 18, and (A) completed on Dec. 25. Restoration work to be commenced in mid-March.
	Main transformer inspection (preparation for transportation into the factory)					Inspection completed on Nov. 23. Preparation for transportation into the factory conducted from Oct. 29 to Dec. 28. Coordinating for the start date of transportation.
	House transformers inspection (preparation for transportation into the factory)					1A Inspection completed on Sept. 4. 1B Inspection completed on Oct. 12. Coordinating for the start date of transportation into the factory.
	Excitation transformers inspection (preparation for transportation into the factors)					Inspection completed on Oct. 18. Coordinating for the start date of transportatin into the factory.
	Main generator inspection					Inspection commenced on Feb. 7.
Unit No.2 Reactor facilities	Fuel / control rod inspection **				_	Visual inspection of fuels completed on Feb. 1. Visual inspection of channel boxes completed on Feb. 12. Inspection of control roll planned from Nov. 27 to mid-March.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 21.
Other facilities	Main transformer inspection (preparation for transportation into the factors)			_		Inspection completed on Nov. 28. Preparation for transportation into the factory planned from Nov. 1 to Dec. 28, and Feb. 12 to Mar. 7. Coordinating for the start date of transportation.
	House transformers inspection (preparation for tranportation into the factory)					2A Inspection completed on Nov. 13. 2B Inspection completed on Nov. 19. Coordinating for the start date of transportation into the factory.
	Excitation transformers inspection (preparation for transportation into the factors)					Inspection completed on Dec. 6. Coordinating for the start date of transportation into the factory.
Unit No.3 Reactor facilities	In-core inspection					Phase3* Inspection completed on Feb. 19.
	Reactor pressure vessel inspection preparation					Preparation for inspection of nozzle parts etc. planned from Jan. 21 to Feb. 21.
	inspection	lacksquare				Inspection of nozzle parts etc. planned from Feb. 6 to Feb. 22.
	Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule					Ultrasonic testing completed on Feb. 13. Coordinating for the start date of cross-sectional inspection.
	Fuel / control rod inspection *3					Visual inspection of fuels to be commenced on mid-March. Visual inspection of channel boxes to be commenced on mid-March.
	Fuel / control rod inspection		•			Visual inspection of channel object to be commenced on fine-watch. Visual inspection of control rod to be commenced on Feb.25.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
Other facilities	Main transformer inspection (preparation for tranportation into the factory)					Inspection completed on Oct. 26. Preparation for transportation into the factory completed on Nov. 26. Coordinating for the start date of transportation.
	House transformers inspection (preparation for tranportation into the factory)	V				3A Inspection completed on Oct. 22. Preparation for transportation into the factory planned from Feb. 20 to Mar. 12. *3B Transportation completed on Sept. 20.
	Excitation transformers inspection (preparation for transportation into the factors)					Inspection completed on Nov. 3. Preparation for transportation into the factory to be commenced on Mar. 12.
	Main generator inspection					Inspection to be commenced on Feb. 21.
Unit No.4 Reactor facilities	Reactor pressure vessel inspection preparation					Preparation for inspection of nozzle parts etc. planned on Feb. 8.
	inspection					Inspection of nozzle parts etc. planned from Dec. 8 to Dec. 18, and from Jan. 28 to Feb. 14.
	Pressure suppression chamber inspection preparation					Preparation for inspection planned from Feb. 13 to Feb. 25.
	inspection					Inspection planned from Feb. 26 to Mar. 17.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
Other facilities	Main transformer inspection (preparation for transportation into the factory)					Inspection completed on Dec. 13. Preparation for transportation into the factory conducted from Dec. 14 to Dec. 27. Coordinating for start date of transportation.
	House transformers inspection					4A, 4B Coordinating for the start date of inspection.
	Excitation transformers inspection					Coordinating for the start date of inspection.
	Main generator inspection					Inspection commenced on Jan. 15. Withdrawal of the rotor planned on Feb. 14.
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Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks)(2/3)

[Inspection/Restoration Status]
◆From February 17th, 2008 (Sun) to March 15th, 2008 (Sat)

◆From February 17th, 2008 (Sun) to System/Equipment	Items	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Mar. 2nd (Sun) to Mar. 8th (Sat)	Mar. 9th (Sun) to Mar. 15th (Sat)	Status of Inspection/Restoration
Unit No.5 Reactor facilities	Jet pump inspection					No.1 Visual inspection to be conducted on Jan. 18 prior to disassembly. No.1 disassembly to be conducted from Feb. 26 to Feb. 29.
Cincro.						Visual inspection of fuels planned from Feb. 14 to mid-March.
	Fuel / control rod inspection *3					Visual inspection of channel boxes planned from Feb. 15 to late March.
						Visual inspection of control rod to be commenced in late March.
	Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule		<u> </u>			Ultrasonic testing to be commenced on Feb. 25.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
Other facilities	Main transformer inspection (preparation for transportation into the factory)					Inspection completed on Nov. 29. Preparation for transportation into the factory conducted from Nov. 30 to Dec. 25. Coordinating for the start date of transportation into the factory.
	House transformers inspection (oil extraction / internal inspection) preparation inspection					5A Preparation for inspection planned from Feb. 11 to Feb. 24. 5B Preparation for inspection to be commenced on Feb. 27.
						5A Internal inspection planned on Feb. 25 and Feb. 26. 5B Internal inspection planned on Mar. 10 and Mar. 11.
						34 incernal inspection planned on Feb. 25 and Feb. 20. 35 incernal inspection planned on war. 10 and war. 11.
	Excitation transformers inspection (oil extraction / internal inspection)					Preparation fot inspection to be commenced on Mar. 25.
	Main generator inspection					Inspection commenced on Nov. 3. Transportation of roter into the factory completed on Dec. 1.
Unit No.6 Reactor facilities	Pressure suppression chamber inspection		'	'	7	Inspection planned from Feb. 7 to Mar. 8.
						Visual inspection of fuels planned from Feb. 13 to mid-March.
	Fuel / control rod inspection *3					Fisual inspection of channel boxes planned from Feb. 16 to mid-March. Fisual inspection of control rod planned from Feb. 1 to mid-March.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) internal inspection completed on Oct. 25.
Other facilities	Main transformer inspection					Transportation into the factory completed on Oct. 31.
	House transformers inspection		V			6A, 6B Preparation for carrying in planned from Feb. 25 to Feb. 27.
	Reactor internal pump input transformer inspection			!	!	Preparation for carrying in to be commenced on Feb. 25.
	Main generator inspection				$\overline{}$	Inspection to be commenced on Mar. 10.
	500kV power cable (OF cable) inspection					Inspection commenced on Feb. 9.
	Discharge canal inspetion / restoration preparation					Discharge canal underwater inspection completed on Oct. 10.
			_			Preparation for restration work planned from Dec. 3 to Feb. 25.
	inspection					Internal inspection of discharge canal to be commenced on Feb. 26. Maintenance work to be commenced on Mar. 10.
Unit No.7 Reactor facilities	Pressure suppression chamber inspection preparation					Preparation for inspection of reactor pressure vessel completed on Feb. 7.
	inspection					Inspection planned from Feb. 7 to Feb. 25.
	Fuel / control rod inspection ^{e3}					Visual inspection of fuels completed on Feb.15. Visual inspection of channel boxes planned from Dec. 5 to Feb. 22. Visual inspection of control rod planned from Dec. 19 to Feb. 22.
	Reactor-well inspection		_			Inspection and provisional restoration completed on Nov. 15. (Vacuum work is still underway.) Lining to be repaired planned from Jan. 18 to Feb. 26. Repair of leakage to be confirmed on Mar. 14 and Mar. 15 when the reactor well would be filled up with water.
	Reactor Core Isolation Cooling System Inspection					Inspection of pumps planned from Jan. 14 to Mar. 30. Turbine inspection planned from Feb. 14 to Mar. 26.
Turbine facilities	Turbine internal inspections *					High pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Dec. 1.
Other facilities	Main transformer inspection				_	Preparation for carrying in to be commenced on Mar. 10.
	House transformers inspection				•	7A, 7B Carrying in (from unloading to temporary installation) planned on Mar. 17.
	Reactor internal pump input transformer inspection					Two units carrying in (from unloading to temporary installation) planned on Mar. 17. (total of 4 units).
	Main generator inspection		+	-	<u> </u>	Inspection commenced on Nov. 2. Withdrawal of the rotor completed on Nov. 20.
	500kV power cable (OF cable) inspection			-	-	Inspection to be commenced on Jan. 22.
	500K v power cause (Or cause) inspection					· ·
	Discharge canal inspetion / restoration preparation					Discharge canal underwater inspection completed on Oct. 10. Preparation for restration work planned from Dec. 3 to Feb. 25.
	inspection				_	Internal inspection of discharge canal to be commenced on Feb. 26. Maintenance work to be commenced on Mar. 10.

Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (3/3)

[Inspection/Restoration Status]

System/Equipment	Items	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Mar. 2nd (Sun) to Mar. 8th (Sat)	Mar. 9th (Sun) to Mar. 15th (Sat)	Status of Inspection/Restoration
Transformer (common) / Switch Yard	High-voltage start-up transformer #1inspection					Work for installation commenced on Dec. 7. Planned to be received power on Feb. 27.
	On-site check / inspection / restoration of the oil protection bank for the transformer					Unit No.7 Restoration work commenced on Dec. 25. Unit No.7 Foundation repair work commenced on Feb. 20. (Pile drive works.) Unit No.3 Preparation for restoration work commenced on Feb. 12.
Environmental Facilities	Inspection of house boilers					House boiler (Arahama-side) 1A, 2A, 2B: Inspection underway. (Oliminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23.
Others	Restoration work for Solid Waste Storage Facility					Drum soundness verification work commenced on Oct. 9. Drums to be transferred to temporary warehouse from Feb. 6.
	Restoration work for administration building / information building, etc.					Repair work of the second floor of the administrative building, and the first and second floors of information building is underway.
	Restoration work for the on-site / outside roads & slope, etc.					Restoration of the slope completed on Oct. 22. Restoration work for roads inside and outside of the site currently in progress.
	Replacement of seismic data recorders					Unit No.1 Replacement completed on Dec. 27. Unit No.5 Replacement completed on Jan. 18. Unit No.6 Replacement completed on Feb. 8.
	Outdoor fire protection system piping to be placed above ground, installation of fire protection tank, etc.			I		Site inspection commenced on Dec 25. Inatallation of fire protection tank to be commenced on Feb. 19 (17 tanks).
	Pre-construction geological survey for seismic-isolated essential buildings		_			Survey planned from Feb. 4 to Feb. 29.
	Inspection of spent fuel transportation cask					Inspection to be commenced on Feb. 5.
	Port facility restoration work			_		Preparation work for restoration to be commenced on Mar. 3. Restoration works on the wharf to be commenced on Mar. 10. South-side discharge canal sea water monitor to be transferred from Mar. 16 to 31.

* Inspection results for each facilities will be announced as soon as they compiled.

* Inspection and restoration work and execution date for each item may alter according to the situation.

- *1 Phase 1: Inspection for the upper part of reactors, Phase 2: Inspection for the middle part (reactor core) of the reactor, Phase 3: Inspection for the bottom part of the reactor.
- *2 Turbine inspection work will be conducted as follows:
- All units will be inspected in detail by opening all turbine casings after conducting internal inspection.
- Further with the impaction in the condition of the high-pressure turbine and low-pressure turbine (A) and visually checking for damages or significant deformation in major components such as the easings and blades.

 (For the unit No. 1, since the high-pressure turbine and low-pressure turbine and pened for regular outage at the earthquake, inspections will be conducted for the low-pressure turbine (B) that had not been opened.)

 Detailed inspection includes, in addition to regular fell-acopet inspection, special inspection in consideration of the impact of the impact

- *3 Fuels and control rods were inspected visually by either underwater cameras or fiberscopes.

 "Fuel visual inspection": Representative fuels that had been withdrawn will be inspected. The number of fuel bundles and fuel rods to be inspected differ among units based on the type of fuels and the size of thre reactor core of each unit.
- *Peter visual inspection.** Chapteredinative rises in this to test withintanswith wife or implected. The mining of the control reds subject to inspect on the to use of the control reds subject to inspect on the to use of the control reds subject to inspect on will be inspected. For unit 1, since all futes and channel boxes were placed in the specific legion of the time of the cathyalke, channels or control reds subject to inspection will be inspected. For unit 1, since all futes and channel boxes were placed in the specific legion of the time of the cathyalke, channels or control reds to be inspected with the inspection. We cannot be a superior of the cathyalke and the control reds to be inspected with the subject of the cathyalke of the reactor core of each unit.

 "Control red visual inspection." Representative control reds that has been withdrawn will be inspected. The number of control reds to be inspected differ among units based on the type of fuels and the size of three reactor core of each unit.