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)

Sy	/stem/Equipment	Items	Apr. 13th (Sun) to Apr. 19th (Sat)	Apr. 20th (Sun) to Apr. 26th (Sat)	Apr. 27th (Sun) to May 3rd (Sat)	May 4th (Sun) to May 10th (Sat)	Status of Inspection / Restoration
t No.1	Reactor facilities	Fuel / control rod inspection + ¹	▼				Visual inspection of control rod completed on Feb. 22. Inspection of spent fuel pool rack etc. completed on Feb. 28 and Feb. 29. Visual inspection of fuels to be conducted from Apr. 16 to late May Work suspended from Apr. 27 to May 10.> Visual inspection of channel boxes to be conducted from Apr. 24 to late May Work suspended from Apr. 27 to May 10.>
	Turbine facilities	Turbine inspection * 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					Restoration work commenced on Mar. 17. < Work suspended from Apr. 26 to May 6.>
		Main transformer inspection					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 in into the factory.
		House transformers inspection	-				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					Inspection completed on Oct. 18. Coordinating for the start date of transportatin into the factory.
		Main generator inspection			1		Inspection commenced on Feb. 7. Withdrawal of rotor completed on Mar. 5. <work 4="" 6.="" from="" may="" suspended="" to=""></work>
		Stack inspection					Inspection for substructure of piles commenced on Apr. 4. <work 1="" 6="" from="" may="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration		1			Visual inspection completed on Sep. 14. Survey commenced on Apr. 9 prior to restoration work. <work 3="" 6.="" from="" may="" suspended="" to=""></work>
No.2	Reactor facilities	Pressure suppression chamber inspection		1			Inspection to be conducted from Mar. 25 to May 2.
	Turbine facilities	Turbine inspection *2					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 21.
	Other facilities	Main transformer inspection			· · · · · · · · · · · · · · · · · · ·	 	Inspection completed on Nov. 28. Preparation for on-site transportation to be commenced on April 21. On-site transportation to be conducted in early
		House transformers inspection			 	 	2A Inspection completed on Nov. 13. 2B Inspection completed on Nov. 19. Preparation for transportation into the factory to be conducted from Mar. 24 to Apr. 3 and from Apr. 7. Coordinating for the start date of transportation in factory.
		Excitation transformers inspection		▼			Inspection completed on Dec. 6. Preparation for transportation into the factory to be conducted from Mar. 31 to Apr. 8 and from Apr. 21. Transportation the factory to be conducted in mid-May.
		Main generator inspection					Inspection commenced on Mar. 19. Withdrawal of the rotor completed on Apr. 9. < Work suspended from May 4 to May 6>
		Main exhaust duct inspection / restoration					Visual inspection completed on Oct. 5. Survey to be commenced on Apr. 9 prior to restoration work. <work 3="" 6.="" from="" may="" suspended="" to=""></work>
No.3	Reactor facilities	Pressure suppression chamber inspection					Inspection to be conducted from Mar. 31 to May 23. <work 3="" 6="" from="" may="" suspended="" to=""></work>
		Fuel / control rod inspection * ¹					Inspection of spent fuel pool rack etc. completed on Mar. 10. Visual inspection of fuels to be conducted from Mar. 14 to Apr. 17. Visual inspection of control rod completed on Apr. 11. Visual inspection of channel boxes tcompleted on Apr. 11.
		Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule preparation inspection					Preparation for detailed inspection to be conducted from Mar. 14 to May 2. Cutting out piping commenced on Apr. 15. Detailed inspection to be commenced on May 7.
	Turbine facilities	Turbine inspection * ²					Low pressure turbine (B) (C) detailed inspection to be commenced on May 7.
	Other facilities	Main transformer inspection					Inspection completed on Oct. 26. Preparation for transportation into the factory conducted from Oct. 18 to Nov. 26. Coordinating for the start date of transnortation into the factory.
		House transformers inspection					3B Transportation completed on Sept. 20. 3A Inspection completed on Oct. 22. Preparation for transportation into the factory completed on Mar. 12. Transportation into the factory to be conducted way.
		Excitation transformers inspection					Transportation into the factory completed on Apr. 2.
		Main generator inspection					Inspection commenced on Feb. 20. Withdrawal of rotor completed on Mar. 19. <work 4="" 6="" from="" may="" suspended="" to=""></work>
		Stack inspection		1		Ú1111111111	Inspection for substructure of piles commenced on Mar. 28. <work 1="" 6.="" from="" may="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration					Visual inspection completed on Sep. 14. Survey commenced on Apr. 1 prior to restoration work. <work 3="" 6="" from="" may="" suspended="" to=""></work>
Jnit No.4	Reactor facilities	Fuel / control rod inspection * ¹					Visual inspection of fuels to be conducted from Mar. 21 to Mar. 27, and in mid-June. Visual inspection of channel boxes to be conducted from Mar. 28 to Apr. 21. Visual inspection of control rol to be conducted from Apr. 91 bo Apr. 21.
	Turbine facilities	Turbine inspection * ²					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
	Other facilities	Main transformer inspection					Inspection completed on Dec. 13. Preparation for transportation into the factory conducted from Dec. 14 to Dec. 27. Coordinating for the start date of transportation into the factory.
		House transformers inspection					4A, 4B Coordinating for the start date of inspection.
		Excitation transformers inspection					Coordinating for the start date of inspection.
	1	Main generator inspection				5	Inspection commenced on Jan. 15. Withdrawal of rotor completed on Feb. 14. < Work suspended from May 4 to May 6.>

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)

. Sy:	stem/Equipment	Items	Apr. 13th (Sun) to Apr. 19th (Sat)	Apr. 20th (Sun) to Apr. 26th (Sat) Apr. 27th (Sun) to May 3rd (Sat)	May 4th (Sun) to May 10th (Sat)	Status of Inspection / Restoration
	Reactor facilities	Jet pump inspection				No.1 Disassembly completed on Feb. 28. Root-cause analysis and restoration policy under consideration.
		Pressure suppression chamber inspection				Inspection to be conducted from Apr. 7 to May 17. < Work suspended from Apr.29 to May 6>
		Fuel / control rod inspection *1				Visual inspection of fuels completed on Mar. 24. Inspection of spent fuel pool rack etc. completed on Apr. 2. Visual inspection of control rot completed on Apr. 4. Visual inspection of channel boxes completed on Apr. 4.
	Turbine facilities	Turbine inspection *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 14.
	Other facilities	Main transformer inspection				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		—		5A Inspection completed on Feb. 26. 5B Inspection completed on Mar. 3. Preparation for transportation into the factory completed on Mar. 8. 5B On-site transportation conducted on Apr. 15 (temporary installation on wharf). 5A On-site transportation to be conducted on Apr. 28 and Apr. 29. (temporary installation on wharf). 5A, 5B Transportation into the factory to be conducted on May 16.
		Excitation transformers inspection				Preparation for transportation into the factory completed on Mar. 22. On-site transportation to be conducted on Apr. 28 and Apr. 29. (temporary installation on wharf). Transportation into fractory to be conducted on May 16
		Main generator inspection				Inspection commenced on Nov. 3. Carrying in (unloading to be conducted on Apr. 21. < Work suspended from May 4 to May 6.>
		Stack inspection				Detailed inspection for top of stack commenced on Apr. 16. <work 1="" 6.="" from="" may="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration				Visual inspection completed on Sep. 14. Survey commenced on Apr. 21 prior to restoration work. <work 6.="" apr.26="" from="" may="" suspended="" to=""></work>
nit No.6	Reactor facilities	Fuel / control rod inspection 4 ⁴				Visual inspection of fuels completed on Mar. 17. Visual inspection of control rod completed on Mar. 24. Visual inspection of channel boxes completed on Mar. 24. Inspection of spent fuel pool rack etc. to be conducted on Apr. 7.
	Turbine facilities	Turbine inspection *2				High pressure turbine and low pressure turbine (A) internal inspection completed on Oct. 25.
	Other facilities	Main transformer inspection preparati	n 🗸			Preparation for carrying in copleted on Apr. 16.
		carrying	n			Carrying in and installation work to be commenced on Apr. 22. < Work suspended from May 3 to May 6.>
		House transformers inspection preparati				6A, 6B Preparation for carrying in completed on Apr. 8.
		carrying	n			6A, 6B Carrying in completed on Apr. 12. Installation work commenced on Apr. 14. <work 6.="" apr.30="" from="" may="" suspended="" to=""></work>
		Reactor internal pump input transformer inspection		· · · · · · · · · · · · · · · · · · ·		Carrying in completed and installation work commenced on Mar. 26. (All of 4 units.) <work 3="" 6.="" from="" may="" suspended="" to=""></work>
		Main generator inspection				Inspection commenced on Mar. 10. Withdrawal of the rotor completed on Apr. 3. <work 4="" 6.="" from="" may="" suspended="" to=""></work>
		500kV power cable (OF cable) inspection				Inspection commenced on Feb. 9. Energization for testing without load completed on Apr. 12. <work 3="" 6="" from="" may="" suspended="" to=""></work>
		Discharge canal inspetion / restoration				Discharge canal underwater inspection completed on Oct. 10. Internal inspection of discharge canal commenced on Feb. 26. Maintenance work commenced on Mar. 10. <work 4="" 5.="" from="" may="" suspended="" to=""></work>
		Stack inspection				Detailed inspection for top of stack commenced on Mar. 19. <work 1="" 6.="" from="" may="" suspended="" to=""> Internal inspection of stack completed on Apr. 7.</work>
nit No.7	Reactor facilities	Reactor-well inspection				Inspection and provisional restoration completed on Nov. 15. (Vacuum work is still underway.) Repair of lining completed on Feb. 26. Repair of leakage confirmed on Mar. 14 and Mar. 15 when the reactor well was filled up with water.
		Fuel / control rod inspection #				Inspection of spent fuel pool rack etc. completed on Apr. 15.
		Inspection of new fuel storage warehouse and new fuels in the warehouse				Inspection of new fuel storage warehouse completed on Apr. 1. Inspection of new fuels in the warehouse completed on Apr. 7.
	Turbine facilities	Turbine inspection *2				High pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Dec. 1. Low pressure turbine (A) (B) restoration work of blade to be commenced on Apr. 14. (Replacement of wear and contacted blade.)
	Other facilities	Main transformer inspection				Carrying in completed on Apr. 9. Installation work to be commenced on Apr. 10. < Work suspended from Apr.30 to May 6.>
		House transformers inspection				7B Installation work commenced on Mar. 24. 7A Installation work commenced on Apr. 11.
		Reactor internal pump input transformer inspection				Carrying in and installation work commenced on Mar. 25. (All of 4 units.) <work 3="" 6="" from="" may="" suspended="" to=""></work>
		Main generator inspection				Inspection commenced on Nov. 2. Withdrawal of the rotor completed on Nov. 20. < Work suspended from May 4 to May 6.>
		500kV power cable (OF cable) inspection				Inspection commenced on Jan. 22. Energization for testing without load completed on Mar. 22. < Work suspended from May 3 to May 6>
	1				[Discharge canal underwater inspection completed on Oct. 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
From April 13th 2008 (Sun) to May 10th 2008 (Sat)

System/Equipment	Items	Apr. 13th (Sun) to Apr. 19th (Sat)	Apr. 20th (Sun) to Apr. 26th (Sat) Apr. 27th (Sun) to May 3rd (Sat)	May 4th (Sun) to May 10th (Sat)	Status of Inspection / Restoration
Transformer (common) / Switch Yard	High-voltage start-up transformer #3 inspection	—			Internal inspection completed on Apr. 5. Preparation for transportation into the factory to be conducted from Apr. 7 to Apr. 26. Transportation into the factory to be commenced in mid-May.
	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. Unit No.3 Preparation for restoration work commenced on Feb. 12.
Environmental Facilities	Inspection of house boilers				(Arahama-side) 1A, 2A, 2B: Inspection underway. <work 3="" 6="" from="" may="" suspended="" to=""> (Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23. <work 26="" 6="" apr.="" from="" may="" suspended="" to=""></work></work>
	Restoration work for filtrate tank #3 and #4				Preparation for restoration work commenced on Mar. 3. No.4 Restoration work commenced on Mar. 14. < Work suspended from May 3 to May 6.>
Others	Restoration work for solid waste storage facility				Drum soundness verification work completed on Mar. 17. Transportation of drums to temporary warehouse commenced on Feb. 6. «Work suspended from May 3 to May 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. <Work suspended from May 3 to May $6>$
	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. Preparation for reinforcement work to be commenced on Apr. 23.
	Outdoor fire protection system piping to be placed above ground, installation of fire protection tank, etc.				(Ohminato-side) Work on installing fire protection system piping above ground commenced on Mar. 21. «Work suspended from May 3 to May 6> Inatallation of fire protection tank completed on Apr. 3 (17 Ianks). (Irahama-side) Work on installing fire protection system piping above ground to be commenced in mid-May.
	Inspection of spent fuel transportation cask				Inspection commenced on Feb. 5. <work 10.="" 27="" apr.="" from="" may="" suspended="" to=""></work>
	Restoration work for port facility				Restoration work on the wharf commenced on Mar. 17. Restoration work for bank protection to be commenced on Apr. 3. <work 2="" 6="" from="" may="" suspended="" to=""></work>

X 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.

* Period to suspend the works for "Golden Week" holidays.

*1 Fuch 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. "Channel box visual inspection". Channel box subject to indoes adopted to inspect on will be inspected. For unit 1, since all fuels and channel boxes were placed in the sport fuel pool at the time of the carthquake, channel boxes that housed fuels that were subject to inspected. For unit 1, since all fuels and channel boxes were placed in the sport fuel pool at the time of the carthquake, channel boxes that housed fuels many guits based on the type of fuels and the size of thre reactor core of each unit. "Control of visual inspection".

*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.

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- An units win or supjection in ordan is y djening an units cassing and consulting microan inspection.
- Internal inspection will be conducted by opening the high-pressure turbines (A) and (C) had been opened for regular outage at the time of the arthogenes, inspections in any or components such as the casings and blades.
- For the unit No. 1, since the high-pressure turbines (A) and (C) had been opened for regular outage at the time of the arthogenes, market on the low-pressure turbine (B) that had not been opened.)
- Detailed inspection includes, in addition to regular full coording at the inspection includes in addition to regular full coording at the inspection includes.
- More and the inspection of the inspection of the inspection.