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 Angust	31rd 2008 (Su	n) to September 27	th 2008 (Sat)

S	stem / Equipment	Items	Aug. 31st (Sun) to Sep. 6th (Sat) Sep. 7th (Sun) to Sep. 13th (Sat)	Sep. 14th (Sun) to Sep. 20th (Sat) Sep. 21st (Sun) to Sep. 27	h (Sat) Status of Inspection / Restoration
Init No.1	Turbine facilities	Turbine inspection *			Low-pressure turbine (B) internal inspection completed.
	Other facilities	cilities Submerged equipment inspection on ground floor 5 of the reactor combination building			Restoration work commenced on Mar. 17.
		House transformer inspection			1A, 1B On-site transportation completed on Jul. 9.
		Excitation transformer inspection			Transportation into the factory is underway.
		Main generator inspection			Inspection commenced on Feb. 7. Withdrawal of rotor completed on Mar. 5.
		500kV power cable inspection	R		Removal of cables to be conducted from Jul. 7 to Sep. 27.
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Aug. 9.
		Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6.
Init No.2	Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) internal inspection completed.
	Other facilities	House transformer inspection			Transportation into the factory is underway.
		Excitation transformer inspection			On-site transportation completed on May 16.
		Main generator inspection			Inspection commenced on Mar. 19. Transportation of rotor into the factory completed on Aug. 22.
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Aug. 9.
Init No.3	Reactor facilities	Reactor recirculation piping preventive maintenance			Perparation work commenced on Jul. 14. Preventive maintenance to be commenced on Sep. 12.
		Inspection of new fuel storage warehouse and new fuels in the warehouse	V V		Inspection of new fuels to be conducted from Sep. 2 to Sep. 4 and Sep.9 to Sep. 26. Inspection of new fuel storage warehouse to be conducted on Sep. 8.
	Turbine facilities	Turbine inspection *			Low-pressure turbine (B) (C) detailed inspection commenced on May 7.
					High-pressure turbine and low pressure turbine (A) detailed inspection commenced on Jun. 25. Low-pressure turbine (A) (B) restoration work of blades commenced on Jun. 25. (Replacement of wear and contacted blades.)
	Other facilities	Main transformer inspection			Transportation into the factory is underway.
		House transformer inspection			Transportation into the factory is underway.
		Excitation transformer inspection			Transportation into the factory is underway.
		Main generator inspection			Inspection commenced on Feb. 20. Rotor carrying in completed on Aug. 1.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive			Preparation for transportation into the factory to be conducted from Aug. 18 to Sep. 10. Transportation into the factory to be conducted on Sep. 1
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jul. 23.
		Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16.
Init No.4	Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on Jun. 19.
	Other facilities	Main transformer inspection			Preparation for transportation into the factory commenced on Jun. 2. Transportation into the factory completed on Aug. 25.
		House transformer inspection			4A 4B Transportation into the factory completed on Aug. 29.
		Excitation transformer inspection			Transportation into the factory completed on Aug. 29.
		Main generator inspection			Inspection commenced on Jan. 15. Transportation of rotor into the factory completed on Jun. 11.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive			Preparation for transportation into the factory commenced on Aug. 25.
		Stack inspection			Inspection for substructure of piles commenced on Jul. 1. Internal inspection of stack completed on Aug. 25.
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jun. 23.

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 August 31rd, 2008 (Sun) to September 27th, 2008 (Sat)

	un) to September 27th, 2008 (Sat)			
System / Equipment	Items	Aug. 31st (Sun) to Sep. 6th (Sat) Sep. 7th (Sun) to Sep. 13th (Sat)	Sep. 14th (Sun) to Sep. 20th (Sat) Sep. 21st (Sun) to Sep. 27th (Sat)	Status of Inspection / Restoration
Init No.5 Reactor facilities	Jet pump inspection			Root-cause analysis is under consideration.
Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) internal inspection completed.
Other facilities	House transformer inspection			Transportation into the factory is underway.
	Excitation transformer inspection			Transportation into the factory is underway.
	Main generator inspection	V		Rotor carrying in completed on Apr. 24. Preparation for restoration work to be commenced on Sep. 11.
	500kV power cable inspection			Removal of cables commenced on Jun. 30.
	Stack inspection			Inspection for substructure of piles commenced on Jun. 23.
	Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jun. 2.
nit No.6 Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12.
Other facilities	Main transformer inspection			Installation work commenced on Apr. 30.
	House transformer inspection			6A, 6B Installation work commenced on Apr. 14.
	Reactor internal pump input transformer inspection			Installation work commenced on Mar. 26.
	Main generator inspection			Inspection commenced on Mar. 10. Withdrawal of rotor completed on Apr. 3.
	500kV power cable inspection			Inspection commenced on Feb. 9. Energization for testing without load completed on Apr. 12.
	Discharge canal inspection / restoration			Internal inspection of discharge canal and restoration work completed on Jun. 26.
	Sistering Cultur Inspection / Tenorition			Removal of bypass pipe etc. to be conducted from Jul.10 to Oct. 10.
Seismic reinforce	ment Seismic reinforcement works such as pipe supports			Reinforcement work commenced on Jul. 4.
	Seismic reinforcement works for the roof truss of the reactor building			Preparation work completed on Sep. 2. Reinforcement work commenced on Sep. 3.
	Seismic reinforcement works for exhaust stack			Preparation work commenced on Jul. 19. Reinforcement work to be commenced on Sep. 5.
	Seismic reinforcement works for fuel handling machine			Reinforcement work commenced on Aug. 22.
nit No.7 Turbine facilities				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection is underway.
	Turbine inspection *			Low-pressure turbine (A) (B) restoration work of blades commenced on Apr. 14. (Replacement of wear and contacted blade.) Low-pressure turbine (A) (B) (C) restoration work of blades on the 15th stage commenced on Aug. 1.
Other facilities	Main transformer inspection			Installation work to be conducted from Apr. 10 to Sep. 27.
	House transformer inspection		<u> </u>	7B Installation work to be conducted from Mar. 24 to Sep. 12. 7A Installation work to be conducted from Apr. 11 to Sep. 12.
	Reactor internal pump input transformer inspection			Electrical testing completed on Jun. 7. Coordinating for the start date of energization for testing without load.
	Main generator inspection			Restration work commenced on Jul. 14.
	500kV power cable inspection		 	Inspection commenced on Jan. 22. Energization for testing without load completed on Mar. 22.
	Discharge canal inspection / restoration		Internal inspection of discharge canal and restoration work completed on Jun. 7.	
				Removal of bypass pipe etc. to be conducted from Jul.18 to Sep. 20.
Seismic reinforce	ment Seismic reinforcement works such as pipe supports			Reinforcement work commenced on Jun. 16.
	Seismic reinforcement works for the roof truss of the reactor building			Reinforcement work commenced on Jul. 14.
	Seismic reinforcement works for exhaust stack	V		Preparation work commenced on Jul. 19. Reinforcement work to be commenced on Sep. 5.
	Seismic reinforcement works for reactor building ceiling crane			Preparation work commenced on Aug. 25. Reinforcement work to be commenced on mid-September.
	Seismic reinforcement works for fuel handling machine			Reinforcement work commenced on Aug. 8.
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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)(3/3)

[Inspection/Restoration Status]

System / Equipment	Items	Aug. 31st (Sun) to Sep. 6th (Sat)	Sep. 7th (Sun) to Sep. 13th (Sat)	Sep. 14th (Sun) to Sep. 20th (Sat) Sep. 21st (Sun) to Sep. 27th (Sat)	Status of Inspection / Restoration	
ransformer (common) / Switch Ya	rd High-voltage start-up transformer #3 inspection				Preparation for installation work to be conducted from Aug. 25 to Sep. 4. Carrying in to be conducted on Sep. 5. Installation work to be conductrom Sep. 6 to mid-November.	
	On-site check / inspection / restoration of the oil protection bank for the transformer	_			Unit No.2 Preparation for restoration work commenced on May 20. Recovery of oil-contaminated soil commenced on Jul. 12. Unit No.5 Preparation for restoration work commenced on Jun. 3. Restoration work commenced on Aug. 27. Recovery of oil-contamin e commenced on Sep. 19. Unit No.6 Restoration work to be conducted from Jun. 24 to Sep. 30. Unit No.6 Preparation for restoration work commenced on Jul. 7. Recovery of oil-contaminated soil compiled on Aug. 22. Restoration commenced on Sep. 19.	
					Unit No.3 Restoration work commenced on Aug. 2. Unit No.7 Restoration work completed on Aug. 29. Unit No.4 Preparation for restoration work commenced on Sep. 2.	
Environmental Facilities	House boilers inspection				(Arahama-side) IA Inspection to be conducted from Apr. 8 to late September.	
					2A Inspection completed on Aug. 28. 2B Inspection commenced on Apr. 8. 3A Inspection to be commenced on Sep. 9. (Ohminato-side) 4C Inspection commenced on May 26.	
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.	
	Inspection of spent fuel transportation cask storage facility				Inspection for substructure of piles commenced on Jul. 30.	
	Restoration work for administration building / information building, etc.				Repair work of the second floor of administration building is underway.	
	Construction of seismic-isolated essential buildings				Site preparation work commenced on Jun. 23.	
	Outdoor fire protection system piping to be placed above ground, etc.				(Ohminato-side) Work on installing fire protection system piping above ground completed on Jun. 27. (Arahama-side) Work on installing fire protection system piping above ground commenced on Apr. 28. Replacement work on the fire protection system piping around the Arnhama-side building from underground to above ground completed on Jun. 28.	
	Restoration and reinforcement work for the on-site / outside roads & slope, etc.				System piping around the Aramania-sine bunding from underground to above ground completed on Jun. 26. Restoration work for roads inside and outside of the site currently in progress. Reinforcement work commenced on May 16.	
	Restoration work for port facility				Restoration work for bank protection commenced on Apr. 3.	

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.

- All units will be inspected in detail by opening all turbine casings after conducting internal inspection.
- Internal inspection will be conducted by opening an utonious causings and colonous changes are colonous changes and colonous changes and colonous changes are colonous changes and colonous changes and colonous changes are colonous changes and colonous changes are colonous changes and blades.

 (For the unit No. 1, since the high-pressure turbine and low-pressure turbines (A) and (C) had been opened for regular outage at the time of the earthquester, inspections will be conducted for the low-pressure turbine (B) that had not been opened.)

 Detailed inspection includes, an addition to regular rull-scope inspection, special inspection in consideration of the impact of the earthquester and excessary repairs in case damages are found.

^{*} Turbine inspection work will be conducted as follows: