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 August 24th, 2008 (Sun) to September 20th, 2008 (Sat)	
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S	stem / Equipment	Items	Aug. 24th (Sun) to Aug. 30th (Sat Aug. 31st (Sun) to Sep. 6th (Sat) Sep. 7th (Sun) to Sep. 13th (Sat) Sep. 14th (Sun) to Sep. 20th (Sat	Status of Inspection / Restoration
Init No.1	Turbine facilities	Turbine inspection *		Low-pressure turbine (B) internal inspection completed.
	Other facilities	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		Removal of cables to be conducted from Jul. 7 to Sep. 27.
		Main exhaust duct inspection / restoration		Survey completed on Jun. 6 prior to restoration work. Preparation for restoration work commenced on Aug. 9.
		Circulating water pipe inspection		Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6.
Jnit 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		Survey completed on Jun. 6 prior to restoration work. Preparation for restoration work commenced on Aug. 9.
Jnit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance		Perparation work commenced on Jul. 14.
		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 late September. 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. 11
		Main exhaust duct inspection / restoration		Survey completed on May 30 prior to restoration work. 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		AA Preparation for transportation into the factory commenced on Jul. 10. B Preparation for transportation into the factory commenced on Jul. 22. AA 4B Transportation into the factory to be conducted on Aug. 29.
		Excitation transformer inspection		Preparation for transportation into the factory commenced on Jul. 24. Transportation into the factory to be conducted 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	V	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		Survey completed on Jun. 20 prior to restoration work. 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]

S	stem / Equipment	Items	Aug. 24th (Sun) to Aug. 30th (Sat) Aug. 31st (Sun) to Sep. 6th (Sat) Sep. 7th (Sun) to Sep. 13th (Sat) Sep. 14th (Sun) to Sep. 20th (Sat) Status of Inspection / Restoration
Jnit 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		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.
Jnit 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. Removal of bypass pipe commenced on Jul. 10.
	Seismic reinforcement	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 commenced on Jul. 17. Coordinating for the start date of reinforcement work.
		Seismic reinforcement works for main exhaust stack		Preparation work commenced on Jul. 19. Coordinating for the start date of reinforcement work.
		Seismic reinforcement works for fuel handling machine		Preparation work completed on Aug. 21. Reinforcement work commenced on Aug. 22.
Jnit No.7	Turbine facilities	Turbine inspection *		High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection is underway. 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 19th stage commenced on Aug. 1.
	Other facilities	Main transformer inspection		Installation work commenced on Apr. 10.
		House transformer inspection	_	7B Installation work to be conducted from Mar. 24 to mid-September. 7A Installation work to be conducted from Apr. 11 to mid-September.
		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 commenced on Jun. 18.
	Seismic reinforcement	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 main exhaust stack		Preparation work commenced on Jul. 19. Coordinating for the start date of reinforcement work.
		Seismic reinforcement works for reactor building ceiling crane	V	Preparation work to be commenced on Aug. 25. Reinforcement work to be commenced on mid-September.
		Seismic reinforcement works for fuel handling machine		Preparation work completed on Aug. 7. Reinforcement work commenced on Aug. 8.

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. 24th (Sun) to Aug. 30th (Sa	Aug. 31st (Sun) to Sep. 6th (Sat) Sep. 7th (Sun) to Sep. 13th (Sat)	Sep. 14th (Sun) to Sep. 20th (Sat)	Status of Inspection / Restoration
ransformer (common) / Switch Y	High-voltage start-up transformer #3 inspection	_			Preparation for installation work commenced on Aug. 25. Carrying in to be conducted on Sep. 5.
	On-site check / inspection / restoration of the oil protection bank for the transformer				Jnit No.7 Restoration work to be conducted from Feb. 20 to Aug. 29. Jnit No.2 Preparation for restoration work commenced on May 20. Recovery of oil-contaminated soil commenced on Jul. 12. Jnit No.5 Preparation for restoration work commenced on Jun. 3. Restoration work commenced on Aug. 27. Recovery of oil-contaminated ommenced on Sep. 8. Jnit No.6 Restoration work commenced on Jun. 24. Jnit No.1 Preparation for restoration work commenced on Jul. 7. Recovery of oil-contaminated soil compiled on Aug. 22. Jnit No.3 Restoration work commenced on Aug. 2.
nvironmental Facilities	House boilers inspection				(Arahama-side) 1A Inspection to be conducted from Apr. 8 to late September. 2A Inspection to be conducted from Apr. 8 to Aug. 28. 2B Inspection commenced on Apr. 8.
					3A Inspection to be commenced on Sep. 9. (Ohminato-side) 4C Inspection commenced on May 26.
	Restoration work for filtrate tank #3 and #4				No.3 Restoration work completed on Aug. 20.
thers	Restoration work for solid waste storage facility				Transportation of drums to temporary warehouse commenced on Feb. 6. Drum soundness verification work completed on Mar. 17.
	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 Arahama-side building from underground to above ground completed on Jun. 28.
	Restoration and reinforcement work for the on-site / outside roads & slope, etc.			1	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. Restoration work on the wharf completed on Aug. 7.

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.

- turnue inspection work win the conducted as rotions:

 All units will be inspected in detail by opening all turbine casings after conducting internal inspection.

 Internal inspection will be conducted by opening the high-pressure turbine and low-pressure turbine (A) and visually checking for damages or significant deformation in major components such as the casings and blades.

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

 Detailed inspection includes, in addition to regular full-scope inspection, special inspection in consideration of the impact of the earthquake and necessary repairs in case damages are found.

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