Preparation for restoration work commenced on Jun. 23. Restoration of substruction commenced on Nov. 4.

## 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)

System / Equipment	Items	Nov. 16th (Sun) to Nov. 22nd (San	Nov. 23rd (Sun) to Nov. 29th (Sa	Nov. 30th (Sun) to Dec. 6th (Sat)	Dec. 7th (Sun) to Dec. 13th (Sat	Status of Inspection / Restoration
No.1 Reactor facilities	Repair work of steam separator					Preparation for repair work completed on Oct. 29. Repair work completed on Nov. 17.
Turbine facilities	Turbine inspection #	<b>V</b>				Low-pressure turbine (B) internal inspection completed. High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection comment Nov. 17.
Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building					Restoration work commenced on Mar. 17.
	House transformer inspection					IA, IB 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.
	Main exhaust duct inspection / restoration	<b>V V</b>				Preparation for restoration work commenced on Aug. 9. Restoration of substruction to be commenced on Nov. 27.  Ventilation system exhaust stack inlet radiation monitor sampling pipe inspection completed on Nov. 18.
	Circulating water pipe inspection					Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6.
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		$\overline{}$			Preparation for restoration work commenced on Aug. 9. Restoration of substruction to be commenced on Nov. 27.
No.3 Reactor facilities	Reactor recirculation piping preventive maintenance					Perparation work commenced on Jul. 14. Preventive maintenance commenced on Sep. 12. Ultrasonic testing commenced on Oct. 16.
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.  Llow-pressure turbine (A) (B) restantion 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					3A, 3B Carrying in completed on Nov. 17. Installation work commenced on Nov. 18.
	Excitation transformer inspection					Carrying in completed on Nov. 17. Installation work commenced on Nov. 18.
	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					Transportation into the factory is underway.
	Stack inspection	_				Inspection of stack radiation monitor sampling pipe completed on Nov.16. (incl. restoration work of stack radiation monitor building.)
	Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Jul. 23. Restoration of substruction to be commenced in mid-December.
	Circulating water pipe inspection					Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16.
Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building		$\overline{}$			Preparation for reinforcement work to be enducted from Oct.20 to Nov. 24. Reinforcement work to be commenced on Nov. 25.
No.4 Turbine facilities  Other facilities	Turbine inspection <sup>‡</sup>					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Sep. 30 and to be commenced in J
	House transformer inspection					Transportation into the factory is underway.
	Excitation transformer inspection					Transportation into the factory is underway.
	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					Transportation into the factory is underway.

Main exhaust duct inspection / restoration

## 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]

System / Equipment	Items	Nov. 16th (Sun) to Nov. 22nd (SatNov. 23rd (St	in) to Nov. 29th (Sat Nov. 30th (Sun) to Dec. 6th (Sat) Dec. 7th	h (Sun) to Dec. 13th (Sat) Status of Inspection / Restoration
Unit No.5 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			Restoration work commenced on Sep. 11.
	500kV power cable inspection			Removal of cables commenced on Jun. 30.
	Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jun. 2. Restoration of substruction to be commenced on Nov. 20.
	Stack inspection			Inspection of stack radiation monitor sampling pipe completed on Nov. 7.
	Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25.
Unit 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 completed on Nov. 11.
	Reactor internal pump input transformer inspection			Installation work commenced on Mar. 26. Electrical testing to be conducted from Oct. 15 to early December.
	Main generator inspection			Inspection commenced on Mar. 10. Withdrawal of rotor completed on Apr. 3.
	500kV power cable inspection			Inspection completed on Oct. 31.
	Stack inspection			Inspection of stack radiation monitor sampling pipe completed on Nov. 18.
Seismic reinforcement				Inspection of outdoor duct to be commenced in mid-December.
	Seismic reinforcement works such as pipe supports			Reinforcement work commenced on Jul. 4.
	Seismic reinforcement works for exhaust stack			Clearance of equipment and materials completed on Nov. 13.
	Seismic reinforcement works for reactor building overhead crane			Preparation for reinforcement work completed on Oct. 30. Reinforcement work commenced on Oct. 31.
	Seismic reinforcement works for fuel handling machine			Reinforcement work commenced on Aug. 22.
Unit No.7 Reactor facilities	Fuel-load work			Fuel-load work completed on Nov. 17. Core status confirmation completed on Nov. 17 and Nov. 18.
	Reactor pressure vessel closure	_		Closure work to be conducted from Nov. 18 to Nov. 28.
	Reactor containment vessel closure			Closure work to be conducted from Nov. 29 to Dec.5.
Turbine facilities	Turbine inspection <sup>‡</sup>			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 15th stage commenced on Aug. 1, and restoration work of blades on the 14th and the lost stages commenced on Sep. 25.  Low-pressure turbine (A) restoration work of blades to be completed on Nov. 21.  Low-pressure turbine (A) restoration work of casing to be commenced on Nov. 24.
Other facilities	Reactor internal pump input transformer inspection			Electrical testing completed on Jun. 7. Energization for testing without load to be conducted on Nov. 19 to Nov. 20.
	Main generator inspection			Restration work commenced on Jul. 14.
	Stack inspection			Inspection of outdoor duct to be conducted on Dec.1 and Dec.2.
Verification of system i	System functional test			System functional test commenced on Sep. 18.  Reactor shut-down margin inspection conducted on Nov. 18.  Selected control rod insertion inspection conducted on Nov. 18.  Functional test of control rod drive to be conducted on Nov. 23 and Nov. 24.  Functional test of reactor containment vessel isolation valve to be conducted on Nov. 24.  Functional test of automatic depressurization system to be conducted on Nov. 25.

## 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	Nov. 16th (Sun) to Nov. 22nd (Sul Nov. 23rd (Sun) to Nov. 29th (Sut Nov. 30th (Sun) to Dec. 6th (Sat) Dec. 7th (Sun) to Dec. 13th (Sat)	Status of Inspection / Restoration		
Transformer (common) / Switch Yard	High-voltage start-up transformer #3 inspection		Installation work completed on Nov. 13. Energization for testing completed on Nov. 14.		
	On-site check / inspection / restoration of the oil protection bank for the transformer		Unit No.1 Restoration work commenced on Oct. 4.  Unit No.2 Preparation for restoration work commenced on May 20. Recovery of oil-contaminated soil commenced on Jul. 12.  Unit No.3 Preparation for restoration work commenced on Aug. 2.  Unit No.4 Preparation for restoration work to be conducted from Sep. 2 to Nov. 29. Restoration work to be commenced on Dec. 1.  Unit No.5 Restoration work commenced on Aug. 27.  Scrubbing of soil contaminated by oil leakage commenced on Sep. 16.		
Environmental Facilities	House boilers inspection		Arnhama-side) 1A Inspection to be conducted from Apr. 8 to late December. 2B Inspection commenced on Apr. 8.		
			3A Inspection commenced on Sep. 9. (Ohminato-side) 4C Inspection commenced on May 26.		
	Restoration work of filtrate tank / demineralized tank on Arahama-side		Preparation for restoration work of No.1 filtrate tank/demineralized tank to be commenced on Dec. 2.		
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.		
	Restoration work for administration building / information building, etc.		Repair work of the second floor and third floor of information building commenced on Oct. 14.		
	Construction of seismic-isolated essential buildings		Construction commenced on Oct. 14.		
	Outdoor fire protection system piping to be placed above ground, etc.		(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.		
	Relocation work of ground motion observation points		Boring work commenced on Oct. 20.		
	Restoration and reinforcement work for the on-site / outside roads & slope, etc.		Restoration work for roads inside and outside of the site currently in progress.		
	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.

- \*1 Turbine inspection work will be conducted as follows:
- 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 turbines (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 entraption of the entraptical conductors in cases are found.