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 10th, 2008 (Sun) to March 8th, 2008 (Sat)

◆From Febr	From February 10th, 2008 (Sun) to March 8th, 2008 (Sat)							
Sy	stem/Equipment	Items	Feb. 10th (Sun) to Feb. 16th (Sat)	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Feb. 24th (Sun) to Mar. 8th (Sat)	Status of Inspection/Restoration	
Unit No.1	Reactor facilities	Refueling floor service tools inspection (stud tensioners, etc.)					Inspection planned from Jan. 28 to Feb. 19.	
		Reactor pressure vessel inspection					Inspection of nozzle parts etc. planned from Jan. 10 to Feb. 20.	
		Pressure suppression chamber inspection			7		Inspection planned from Jan. 28 to Feb. 23.	
		Fuel / control rod inspection	_				Inspection of control rod racks completed on Feb. 4 and 5. Inspection of control rod planned from Feb. 15 to Feb. 22. Fuel inspection to be commenced in late April.	
	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.	
		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 tranportation 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 factory)					Inspection completed on Oct. 18. Coordinating for the start date of transportatin into the factory.	
		Main generator inspection		1			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 for control rol planned no Nov. 27, Feb. 7, Feb. 8 and in mid-March.	
	Turbine facilities	Turbine internal inspections *2					High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 21.	
	Other facilities	Main transformer inspection (preparation for transportation into the factory)	_			_	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 transportation 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 factory)					Inspection completed on Dec. 6. Coordinating for the start date of transportation into the factory.	
Unit No.3	Reactor facilities	In-core inspection preparation					Phase3*1 preparation for inspection completed on Feb. 5.	
		inspection					Phase1 and 2*1 inspection completed on Feb. 5. Phase3*1 inspection planned from Feb. 6 to Feb. 19.	
		Reactor pressure vessel inspection preparation inspection					Preparation for inspection of nozzle parts etc. planned from Jan. 21 to Feb. 21. 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. Schedule for cross-sectional inspection to be determined.	
		Fuel / control rod inspection	V				Inspection to be commenced on Feb. 25.	
	Turbine facilities	Turbine internal inspections *2					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 to be commenced on Feb. 20. * 3B Transportation completed on Sept. 20.	
		Excitation transformers inspection (preparation for transportation into the factory)					Inspection completed on Nov. 3. Coordinating for the start date of transportation into the factory.	
		Main generator inspection					Inspection to be commenced on Feb. 18.	

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 10th, 2008 (Sun) to March 8th, 2008 (Sut)								
System/Equipment	Items	Feb. 10th (Sun) to Feb. 16th (Sat)	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Feb. 24th (Sun) to Mar. 8th (Sat)	Status of Inspection/Restoration		
Unit No.4 Reactor facilities	In-core inspection					Phase3* inspection completed on Feb. 5.		
	Reactor pressure vessel inspection prej	ration				Preparation for inspection of nozzle parts etc. planned on Feb. 8.		
	inspe	tion				Inspection of nozzle parts etc. planned from Dec. 8 to Dec. 18, and from Jan. 28 to Feb. 14.		
	Pressure suppression chamber inspection prep	ration				Preparation for inspection planned from Feb. 13 to Feb. 25.		
	inspe	tion				Inspection planned from Feb. 26 to Mar. 17.		
Turbine facilities	Turbine internal inspections *2					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 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.		
Unit No.5 Reactor facilities	Jet pump inspection					No.1 Visual inspection to be conducted on Jan. 18 prior to disassembly. Coordinating for the start date of disassembly.		
	Fuel / control rod inspection					Inspection planned from Feb. 14 to mid-March.		
	Inspection of reactor recirculation piping applicable to the Fitness-for-Servi	e rule				Ultrasonic testing to be commenced in late February.		
Turbine facilities	Turbine internal inspections *2					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 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) prep	aration V				5A Preparation for inspection planned from Feb. 11 to Feb. 24. 5B Preparation for inspection to be commenced on Feb. 27.		
	inspection)					5A Internal inspection planned from Feb. 25 and Feb. 26. 5B Internal inspection to be commenced on Mar. 10.		
	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 preg	ration tion				Preparation for inspection of reactor pressure vessel completed on Feb. 6. Inspection planned from Feb. 7 to Mar. 8.		
	Fuel / control rod inspection					Inspection planned from Feb. 1 to mid-March.		
Turbine facilities	Turbine internal inspections *2					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					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					Inspection to be commenced on Mar. 10.		
	500kV power cable (OF cable) inspection					Inspection commenced on Feb. 9.		
	Discharge canal inspetion / restoration prep	-ation				Discharge canal inspection completed on Sept. 29.		
		ration				Preparation for maintenance commenced on Dec. 3.		
	inspe	tion			I	Internal inspection of discharge canal to be commenced on Feb. 26.		

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 February 10th, 2008 (Sun) System/Equipment	to March 8th, 2008 (Sat) Items	Feb. 10th (Sun) to Feb. 16th (Sat)	Feb. 17th (Sun) to Feb. 23rd (Sat)	Feb. 24th (Sun) to Mar. 1st (Sat)	Feb. 24th (Sun) to Mar. 8th (Sat) Status of Inspection/Restoration
Unit No.7 Reactor facilities	Pressure suppression chamber inspection preparation	res. rom (sun) to res. rom (sar)	100. 17th (Suh) to 100. 25th (Suh)	1 co. 24th (Suh) to Mai. 1st (Sat)	Preparation for inspection of reactor pressure vessel completed on Feb. 7.
JIII 110.7	inspection				Inspection planned from Feb. 7 to Feb. 25.
	Fuel / control rod inspection			,	Inspection planned from Nov. 19, Nov. 20, Dec. 4, Dec. 5, and from Jan. 23 to Feb. 22. *3
	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. 13 and Mar. 15 when the reactor well would be fille up with water.
	Reactor Core Isolation Cooling System Inspection				Inspection of pumps commenced on Jan. 14. Turbine inspection to be commenced on Feb. 14.
Turbine facilities	Turbine internal inspections *2			:	High pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Dec. 1.
Other facilities	Main transformer inspection				Transportation into the factory completed on Oct. 25.
	House transformers inspection				7A, 7B Transportation into the factory completed on Dec. 6.
	Reactor internal pump input transformer inspection				Two units carried out to the factory on Nov. 19. Two units carried out to the factory on Nov. 24. (total of 4 units).
	Main generator inspection				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.
	Discharge canal inspetion / restoration preparation				Discharge canal inspection completed on Oct. 10. Preparation for maintenance commenced on Dec. 3.
	inspection			V	Internal inspection of discharge canal to be commenced on Feb. 26.
ansformer (common) / Switch Ya	High-voltage start-up transformer #1 inspection				Work for installation commenced on Dec. 7. Planned to be received power on Feb. 28.
	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 to be commenced on Feb. 18. (Pile drive works.) Unit No.3 Preparation for restoration work commenced on Feb. 12.
vironmental Facilities	Inspection of house boilers				House boiler (Arahama-side) 1A, 2A, 2B: Inspection underway. (Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23.
hers	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.				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			 	Preparation work for restoration to be commenced on Mar. 3. Restoration works on the wharf to be commenced on Mar. 10.

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

^{*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:

^{*2} I turnie inspection work will be conducted as follows:

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

Internal inspection will be conducted by opening all turbine casings after conducting internal inspection.

Internal inspection will be conducted by opening the high-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.

Revised on Feb. 14, 2008: only preparation works were conducted on Nov. 17 and 18.

To be corrected: To be inspected from Nov. 17 to Nov. 20, Dec. 4, Dec. 5 and from Jan. 23 to Feb. 22.