## 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]

Inspection/Restoration Status From March 9th, 2008 (Sun) to	o April 5th, 2008 (Sat)					
System/Equipment	Items	Mar. 9th (Sun) to Mar. 15th (Sat)	Mar. 16th (Sun) to Mar. 22nd (Sat)	Mar. 23rd (Sun) to Mar. 29th (Sat)	Mar. 30th (Sun) to Apr. 5th (Sat)	Status of Inspection / Restoration
Unit No.1 Reactor facilities	Reactor pressure vessel inspection					Inspection of nozzle parts etc. completed on Mar. 7.
	Pressure suppression chamber inspection					Inspection completed on Mar. 1.
	Fuel / control rod inspection <sup>4</sup>					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 commenced in mid-April. Visual inspection of channel boxes to be commenced in mid-April.
Turbine facilities	Turbine internal inspection *2					Low pressure turbine (B) internal inspection completed on Nov. 30.
Other facilities	-					Provisional restoration of low conductivity waste system (A) completed on Oct. 15, and (B) completed on Dec. 17.
	Submerged equipment inspection on ground floor 5 of the reactor combination building				·	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.
						Restoration work to be commenced on Mar. 17.
	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 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 tranportation into the factor)					Inspection completed on Oct. 18. Coordinating for the start date of transportatin into the factory.
	Main generator inspection				-	Inspection commenced on Feb. 7. Withdrawal of rotor completed on Mar. 5.
	Stack inspection					Inspection for substructure of piles to be commenced in mid-April.
Unit No.2 Reactor facilities	Pressure suppression chamber inspection preparatio		-	_		Preparation for inspection to be conducted from Mar. 12 to Mar. 22.
Olit No.2 Reactor mentics	ressure suppression channel inspection preparation inspection	'				Inspection to be conducted from Mar. 12 to Mar. 22.  Inspection to be conducted from Mar. 24 to early May.
	iispedoii			<b>V</b>		
	Fuel / control rod inspection *					Visual inspection of control rod to be conducted from Nov. 27 to Mar. 24. Visual inspection of fulse completed on rbs. 1. Visual inspection of channel boxes completed on Fb. 12. Inspection of sperm ful poly arck etc. to be conducted on Mar. 18.
Turbine facilities	Turbine internal inspection *2	+				High pressure turbine and low pressure turbine (A) internal inspection completed on Dec. 21.
Other facilities	Main transformer inspection (preparation for tranportation into the factory					Inspection completed on Nov. 28. Preparation for transportation into the factory to be conducted from Nov. 1 to Dec. 28, and Feb. 12 to Mar. 7. Coordinating for the start date of transportation.
	House transformers inspection (preparation for tranportation 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 tranportation into the factor)					Inspection completed on Dec. 6. Coordinating for the start date of transportation into the factory.
	Main generator inspection					Inspection to be commenced on Mar. 14.
Unit No.3 Reactor facilities	Pressure suppression chamber inspection preparation	1				Preparation for inspection to be conducted from Mar. 20 to Mar. 27.
	inspection		•	V	-	Inspection to be conducted from Mar. 28 to mid-May.
						Visual inspection of control rod to be conducted from Feb.25 to mid-April.  Inspection of spent fuel pool rack etc, completed on Mar. 10.
	Fuel / control rod inspection *1		1	I	1	Visual inspection of channel boxes to be commenced on Mar. 14. Visual inspection of channel boxes to be commenced on Mar. 20.
						-
	Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule preparation	1	_	+	1	Ultrasonic testing completed on Feb. 13. Preparation for detailed inspection to be conducted from Mar. 14 to early May.
Turbine facilities	Turbine internal inspection *2					Coordinating for the start date of low pressure turbine (B) (C) detailed inspection.
Other facilities	Main transformer inspection (preparation for tranportation into the factor)		<b>V</b>			Inspection completed on Oct. 26. Preparation for transportation into the factory to be conducted from Oct. 18 to Nov. 26, and from Mar. 17 to Mar. Coordinating for the start date of transportation into the factory.
	House transformers inspection (preparation for transportation into the factory					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 on late May.
	Excitation transformers inspection (preparation for transportation into the factory	<b>V</b>				Inspection completed on Nov. 3. Preparation for transportation into the factory to be conducted from Mar. 12 to early April.
	Main generator inspection					Inspection commenced on Feb. 20. Withdrawal of rotor to be conducted on Mar. 19.
	Stack inspection			_		Inspection for substructure of piles to be commenced in late March.
Unit No.4 Reactor facilities	Pressure suppression chamber inspection		<b>—</b>	*		Inspection to be conducted from Feb. 26 to Apr. 5.
			_			
	Fuel / control rod inspection 4 <sup>1</sup>					Visual inspection of fuels to be commenced on Mar. 21.  Visual inspection of channel boxes to be commenced on Mar. 29.  Visual inspection of control rod to be commenced in early April.
Turbine facilities	Turbine internal inspection *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 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.
	Main generator inspection		-			Inspection commenced on Jan. 15. Withdrawal of rotor completed on Feb. 14.
	Benefator inspection			1		imperiori commences on san. 15. Windiawai of 1000 completed on 140. 14.

## 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]

	Items		Mar 9th (Sun) to Mar 15th (Sat)	Mar 16th (Sun) to Mar 22nd (Sat)	Mar. 23rd (Sun) to Mar. 29th (Sat)	Mar 30th (Sun) to Anr 5th (Sat)	Status of Inspection / Restoration
System/Equipment Unit No.5 Reactor facilities			wai. 9th (Sun) to wai. 15th (Sat)	Mar. Total (Sun) to Mar. 2210 (Sat)	Wai. 25td (Sail) to Wai. 25th (Sail)	Mai. 30th (Suh) to Apr. 3th (Sat)	
Jnit No.5 Reactor facilities	Jet pump inspection						No.1 Disassembly completed on Feb. 28. Root-cause analysis and restoration policy under consideration.  Visual inspection of fuels to be conducted from Feb. 14 to IMar. 24.
	Fuel / control rod inspection *I						Visual inspection of channel boxes to be conducted from Feb. 15 to early April.
							Visual inspection of control rod to be commenced on Mar. 24.  Inspection of spent fuel pool rack etc. to be conducted on Mar. 31.
	Inspection of reactor recirculation piping applicable to the Fitness-for-Service rule						Ultrasonic testing completed on Mar. 12.
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 transportation 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 claransportation into the factory.
	House transformers inspection (oil extraction / internal inspection)	preparation					5A Preparation for inspection completed on Feb. 24. 5B Preparation for inspection completed on Feb. 29.
		inspection					5A Internal inspection completed on Feb. 26. 5B Internal inspection completed on Mar. 3.
	(preparation for tranportation into the factory)	preparation					5A, 5B Preparation for transportation into the factory completed on Mar. 8. Coordinating for the start date of transportation into the factory.
	Excitation transformers inspection (oil extraction / internal inspection)	preparation	<b>V</b>				Preparation for inspection to be conducted from Mar. 10 to Mar. 14.
		inspection					Internal inspection to be conducted on Mar. 17.
	(preparation for tranportation into the factory)	preparation					Preparation for transportation into the factory to be conducted from Mar. 18 to Mar. 22. Coordinating for the start date of transportation into the factory.
	Main generator inspection						Inspection commenced on Nov. 3. Transportation of roter into the factory completed on Dec. 1.
Jnit No.6 Reactor facilities	Pressure suppression chamber inspection						Inspection completed on Mar. 6.
	Fuel / control rod inspection #				_		Visual inspection of control rod to be conducted from Feb. 1 to Mar. 24. Visual inspection of facels to be conducted from Feb. 13 to Mar. 17. Visual inspection of channel boxes to be conducted from Feb. 16 to Mar. 17.
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	preparation					Transportation into the factory completed on Oct. 31. Preparation for carrying in to be commenced on early April.
	House transformers inspection						6A, 6B Preparation for carrying in to be conducted from Feb. 25 to Feb. 27, and from Mar. 31 to Apr. 5.
	Reactor internal pump input transformer inspection			7			Preparation for carrying in to be conducted from Feb. 26 to Mar. 15 and on Mar. 25. (Total 4 units.) All of 4 units to be installed on Mar. 26 at 27
	Main generator inspection		$\overline{}$				Inspection to be commenced on Mar. 10.
	500kV power cable (OF cable) inspection						Inspection commenced on Feb. 9. Energization for testing without load to be conducted from Mar. 29 to Apr. 12.
	Discharge canal inspetion / restoration		_				Discharge canal underwater inspection completed on Oct. 10. Internal inspection of discharge canal commenced on Feb. 26. Maintenance work to be commenced on Mar. 10.
	0.11			_			
Reactor facilities Unit No.7	Stack inspection  Fuel / control rod inspection **						Detailed impection for top of stack to be commenced on Mar. 17.  Visual inspection of fuels completed on Feb. 15.  Visual inspection of channel boxes completed on Feb. 22.
	turi como no napetion						Visual inspection of control rod completed on Feb. 22.
	Reactor-well inspection			7			Inspection and provisional restoration completed on Nov. 15. (Vacuum work is still underway.) Repair of lining completed on Feb. 26. Repair of leakage to be confirmed on Mar. 14 and Mar. 15 when the reactor well would be filled up with
	Reactor core isolation cooling system inspection						Inspection of pumps to be conducted from Jan. 14 to Mar. 20. Turbine inspection to be conducted from Feb. 14 to Mar. 26.
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 preparation carrying in	preparation	<b>V</b>		+	-	Preparation for carrying in commenced on Mar. 10.
							Carrying in to be conducted from Mar. 31 to Apr. 5.
	House transformers inspection	preparation			_		7A, 7B Preparation for carrying in to be conducted from Mar. 21 to Mar. 23.
		carrying in		<b>V</b>	V		7A Installation work to be commenced on Mar. 24.
	Reactor internal pump input transformer inspection			<b></b>	<b>V</b>		Two units carrying in (from unloading to temporary installation to be conducted on Mar. 21. (Total of 4 units.) Two units carrying in to be conducted on Mar. 25. Installation work to be commenced on Mar. 25.
	Main generator inspection						Inspection commenced on Nov. 2. Withdrawal of the rotor completed on Nov. 20.
							Inspection commenced on Jan. 22. Energization for testing without load to be conducted from Mar. 8 to Mar. 22.
	500kV power cable (OF cable) inspection		the state of the s	the state of the s		and the second s	
	500kV power cable (OF cable) inspection  Discharge canal inspetion / restoration		<b>V</b>				Discharge canal underwater inspection completed on Oct. 10. Internal inspection of discharge canal commenced on Feb. 26. Restoration work commenced on Mar. 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 March 9th, 2008 (Sun) to Apr	♦ From March 9th, 2008 (Sun) to April 5th, 2008 (Sat)							
System/Equipment	Items	Mar. 9th (Sun) to Mar. 15th (Sat) Mar. 16th (Sun) to Mar. 22nd (Sat) Mar. 23rd (Sun) to Mar. 29th (Sat) Mar. 30th (Sun) to Apr. 5th (Sat	Status of Inspection / Restoration					
Transformer (common) / Switch Yard	High-voltage start-up transformer #3 inspection preparation		Preparation for inspection to be conducted from Mar. 14 to Apr. 1.					
	inspection		Internal inspection to be conducted from Apr. 2 to Apr. 7.					
	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		House boiler (Arahams-side) 1A, 2A, 2B: Inspection underway. (Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct 23.					
	Restoration work for filtrate tank #3 and #4		Preparation for restoration work to be commenced on Mar. 3.  No.4 Restoration work to be commenced on Mar. 16.					
Others	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.					
	Outdoor fire protection system piping to be placed above ground, installation of fire protection tank. etc.		Inatallation of fire protection tank commenced on Feb. 19 (17 tanks).  Replacement of onsite panel of foum fire extinguisher commenced on Mar. 12.  (Araham-side) Work on installing fire protection system piping above ground to be commenced on Mar. 17.					
	protection tank, etc.		(Ohminato-side) Work on installing fire protection system piping above ground to be commenced on Mar. 17.  (Ohminato-side) Work on installing fire protection system piping above ground to be commenced on Mar. 27.					
	Inspection of spent fuel transportation cask		Inspection to be commenced on Feb. 5.					
	Restoration work for port facility		Preparation for restoration work commenced on Mar. 3. Restoration works on the wharf to be commenced on Mar. 17.  South-side discharge canal sea water monitor to be transferred from Mar. 17 to Mar. 31.					

\* 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 Fuels 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.

Tear visual inspection. "Expectedinate using sum into access uniquation with the inspection will be inspected."

Channel box visual inspection." Channel boxes adjacent to those control ross buject to inspection will be inspected.

For unit 1, since all fuels and channel boxes were placed in the spect fuel pool at the time of the carbetack, channel boxes that bussed fuels that were subject to inspection will be inspected.

Control root visual inspection." Expectedinate control roots dath that been withdrawn will be inspected. The number of control roots to be inspected differ among units based on the type of fuels and the size of three reactor core of each unit.

\*2 Turbine inspection work will be conducted as follows:

I turbine inspection work with econducted as totilows:

- All units will be inspected in detail by opening all turbine easings 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 inspections, special inspection in consideration of the timpact of the earthquake and necessary repairs in case damages are found.