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)(1/2)

• 110m Wa	y 10, 2009 (Sun) to June 6th, System / Equipment	Items	May 10th (Sun) to May 16th (Sat	May 17th (Sun) to May 23rd (Sat) May 24th (Sun) to May 30th (Sat) May 31st (Sun) to June 6th (Sat)	Status of In:
Jnit No.1	Turbine facilities	Turbine inspection *				High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on N
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building				Restoration work to be conducted from Mar. 17, 2008 to late June 2009. <work from<="" suspended="" td=""></work>
		Main transformer inspection		<u>}</u>		Carrying in and installation work commenced on Apr. 20. <work 29="" apr.="" from="" m.<="" suspended="" td="" to=""></work>
		House transformer inspection		<u>+</u>	<u> ··· ··· ··· ··· ··· ··· ··· ··· ···</u>	1A, 1B Carrying in and installation work commenced on Mar. 30. <work apr.<="" from="" suspended="" td=""></work>
		Excitation transformer inspection		<u> </u>		Carrying in and installation work commenced on Mar. 30. <work 29="" apr.="" from="" m<="" suspended="" td="" to=""></work>
		Main generator inspection		<u>}</u>	<u>+</u>	Inspection commenced on Feb. 7, 2008. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>
		500kV power cable inspection				Preparation work for laying cables commenced on Mar. 2. <work 29="" apr.="" from="" m<="" suspended="" td="" to=""></work>
		Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction comm
		Circulating water pipe inspection				Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6, 2008
	Seismic reinforcement	Seismic reinforcement works such as pipe supports		1		Preparation for reinforcement work commenced on Mar. 10. <work 2="" from="" may="" suspended="" td="" to<=""></work>
		Seismic reinforcement works for the roof truss of the reactor building		ł	<u> </u>	Reinforcement work commuced on Jan. 22. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Seismic reinforcement works for reactor building overhead crane		<u> </u>	<u> </u>	Preparation for reinforcement work commenced on Apr. 6. <work 2="" from="" m<="" may="" suspended="" td="" to=""></work>
		Seismic reinforcement works for stack (Unit No.1 and Unit No.2)		+		Preparation for reinforcement work commenced on Feb. 16. <work 2="" from="" may="" n<="" suspended="" td="" to=""></work>
		Seismic reinforcement works for the fuel handling machine		<u>+</u>	+	Reinforcement work commenced on Jan. 30. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Seismic reinforcement works for emergency intake channel	11111	<u>+</u>	+··· ··· +·· ··· +··· ···	Foundation improvement work commenced on Feb. 9. < Work suspended from Apr. 29 to May
	Design for the					
Unit No.2	Reactor facilities Turbine facilities	Reactor recirculation piping preventive maintenance				Perparation work commenced on Dec. 16, 2008. Ultrasonic testing commenced on Feb. 18. < W
		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		<u> </u>	····	Inspection commenced on Mar. 19, 2008. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction comm
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building				Preparation for reinforcement work to be conducted from Feb. 9 to May 17. Reinforcement work
Jnit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance				Preventive maintenance commenced on Sep. 12, 2008. Restoration of the piping cut-out part com-
	Turbine facilities	Turbine inspection *				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on N Low-pressure turbine (A) (B) restoration work of blades commenced on Jun. 25, 2008. (Replace
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	Other facilities	Main transformer inspection				Transportation into the factory is underway.
		House transformer inspection		····		3A, 3B Installation work commenced on Nov. 18, 2008. <work 29="" apr.="" from="" may<="" suspended="" td="" to=""></work>
		Excitation transformer inspection		ł		Installation work commenced on Nov. 18, 2008. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>
		Main generator inspection		<u> </u>		Inspection commenced on Feb. 20, 2008. <work 29="" 6.="" from="" may="" suspended="" to=""></work>
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive				Transformer (B) carrying in and installation work to be commenced on May 25. Transformer (A
		500kV power cable inspection				Preparation work for laying cables to be commenced on May 18.
		Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Jul. 23, 2008. Restoration of substruction com
		Circulating water pipe inspection			····	Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 200
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building		1		Reinforcement work commenced on Nov. 27, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Seismic reinforcement works for stack		<u> </u>	<u> </u>	Preparation for reinforcement work commenced on Feb. 2. <work 2="" from="" ma<="" may="" suspended="" td="" to=""></work>
Unit No.4	Turbine facilities	Turbine inspection *				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection to be commenced
	Other facilities	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, 2008. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>
		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		1		Preparation for restoration work commenced on Jun. 23, 2008. <work 2="" from="" may="" suspended="" td="" to<=""></work>
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building				Preparation for reinforcement work to be conducted from Mar. 13 to May 17. Reinforcement wo
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		Seismic reinforcement works for stack		1		Preparation for reinforcement work commenced on Feb. 2. < Work suspended from May 2 to Ma

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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) (2/2)

	System / Equipment	Items	May 10th (Sun) to May 16th (Sat) May 17th (Sun) to May 23rd (Sat) May 24th (Sun) to May 30th (Sat) May 31st (Sun) to June 6th (Sat)	Status of
Unit No.5	Turbine facilities	Turbine inspection *		High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection to be commence
	Other facilities	Main transformer inspection		Carrying in and installation work commenced on Mar. 25. <work 2="" from="" m<="" may="" suspended="" td="" to=""></work>
		House transformer inspection		5A, 5B Carrying in and installation work commenced on Apr. 25. <work from="" ma<="" suspended="" td=""></work>
		Excitation transformer inspection		Carrying in and installation work commenced on Mar. 2. <work 2="" from="" m<="" may="" suspended="" td="" to=""></work>
		Main exhaust duct inspection / restoration		Preparation for restoration work commenced on Jun. 2, 2008. <work 25<="" apr.="" from="" suspended="" td=""></work>
		Circulating water pipe inspection		Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2
	Seismic reinforcement	Seismic reinforcement works such as pipe supports		Reinforcement work commenced on Apr. 28. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Seismic reinforcement works for the roof truss of the reactor building		Reinforcement work to be conducted from Jan. 19 to May 22. < Work suspended from May 2
		Seismic reinforcement works for reactor building overhead crane		Preparation for reinforcement work o be conducted from Apr. 6 to May 19. Reinforcement we
		Seismic reinforcement works for stack		Preparation for reinforcement work commenced on Feb. 2. <work 1<="" 2="" from="" may="" suspended="" td="" to=""></work>
		Seismic reinforcement works for the fuel handling machine		Reinforcement work commenced on Apr. 23. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
Unit No.6	Reactor facilities	Primary containment vessel closure		Closure work to be conducted from May 11 to May 20.
	Turbine facilities	Turbine inspection *		High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on Low-pressure turbine restoration work of blades completed on Apr. 29. Restoration of casing
	Verification of system integr	ity System functional test		System functional test commenced on Dec. 4, 2008. Primary containment vessel leak-rate inspection to be conducted on May 19 and May 20.
Unit No.7		Functional test for the entire plant		Functional test for the entire plant commenced on May 8. Restarting the nuclear reactor commenced on May 9. Test of raising the reactor pressure to approx. 3.5MPa conducted on May 10.
ransformer	r (common) / Switch Yard	High-voltage start-up transformer #2 inspection		Transportation into the factory is underway.
		On-site check / inspection / restoration of the oil protection bank for the transformer		Unit No.1 Restoration work commenced on Oct. 4, 2008. <work 1<br="" 29="" apr.="" from="" suspended="" to="">Unit No.2 Preparation for restoration work commenced on May 20, 2008. <work f<br="" suspended="">Unit No.3 Restoration work to be conducted from Aug. 2, 2008 to May 29, 2009. <work susp<br="">Unit No.4 Restoration work commenced on Dec. 13, 2008. <work 29="" apr.="" from="" suspended="" to<br="">Unit No.5 Restoration work to be conducted from Aug. 27, 2008 to May 22, 2009. <work sus<br="">Scrubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008. <work suspended<="" td=""></work></work></work></work></work></work>
nvironmental Facilities		House boilers inspection		(Arahama-side) 1A Inspection to be conducted from Apr. 8, 2008 to September 2009. <work from<br="" suspended="">3A Preparation for toransportation of electric boiler transformer commenced on Mar. 2. <w< td=""></w<></work>
		Restoration work of filtrate tank / demineralized tank on Arahama-side		Preparation for restoration work of No.1 filtrate tank/demineralized tank commenced on Dec.
thers		Restoration work for solid waste storage facility		Prevention countermeasure for drum falling commrnced on Jan. 16. <work 1<="" from="" suspended="" td=""></work>
		Restoration work for administration building / information building, etc.		Restoration work for administration building and information building is underway. <work s<="" td=""></work>
		Construction of seismic-isolated essential buildings		Construction commenced on Oct. 14, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Restoration of laundry facility building on Arahama-side		Restoration work to be conducted from Jan. 30 to late September. <work from="" m<="" suspended="" td=""></work>
		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. <work suspen<br="">Maintenance work of the slope in front of sub protection headquarter office commenced on M Restoration work of Daini Takamachi Bridge commenced on May 12.</work>
		Restoration work for port facility		Restoration work for bank protection commenced on Apr. 3, 2008. < Work suspended from A

* 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.

* 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 impact of the earthquake and necessary repairs in case damages are found.

* Period to suspend the works for "Golden Week" holidays.

Inspection / Restoration
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