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)

Inspection/Restoration Status	
◆From December 20, 2009 (Sur	n) to January 16, 2010 (Sat)

From Decen	mber 20, 2009 (Sun) to January 16,	2010 (Sat)	1		1	1	
	System / Equipment	Items	December 20 (Sun) to December 26 (Sat)	December 27 (Sun) to January 2 (Sat)	January 3 (Sun) to January 9 (Sat)	January 10 (Sun) to January 16 (Sat)	
Unit No.1	Reactor facilities	Fuel-load work					Fuel-load work completed on Dec. 18. Core status con
		Reactor pressure vessel closure					Closure work to be conducted from Dec. 22, 2009 to Ja
-		Primary containment vessel closure					Closure work to be commenced on Jan. 9, 2010.
1	Turbine facilities	Turbine inspection					High-pressure turbine and low pressure turbine (A) (B) Restoration of high-pressure turbine and low pressure to
(Other facilities	Main transformer inspection					Carrying in and installation work to be conducted from
		House transformer inspection					1A, 1B Carrying in and installation work to be conduct
		Excitation transformer inspection					Carrying in and installation work to be conducted from
		Main generator inspection					Inspection to be conducted from Feb. 7, 2008 to Jan. 15
		Circulating water pipe inspection					Foundation improvement, excavating work, and inspect
- - -	Verification of system integrity	System functional test					System functional test commenced on Nov. 17, 2009. Management conditions confirmation of solid waste sto Functional test of main steam isolation valve conducted Reactor shut-down margin inspection conducted on Dee Partial interlock functional test of liquid waste storage f Partial interlock functional test of liquid waste storage f Partial interlock functional test of liquid waste storage f Functional test of control rod drive mechanism to be co Functional test of control rod drive system to be conduc
Unit No.2	Turbine facilities	Turbine inspection					High-pressure turbine and low-pressure turbine (A) (B)
1	Other facilities	House transformer inspection				1	Carrying in and installation work commenced on Nov.
		Excitation transformer inspection				*****	Carrying in and installation work commenced on Nov.
		Main generator inspection					Inspection commenced on Mar. 19, 2008.
		Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Aug. 9,
Unit No.3	Turbine facilities	Turbine inspection					High-pressure turbine and low-pressure turbine (A) (B)
(Other facilities	Main transformer inspection				1	Carrying in and installation work commenced on Aug.
		House transformer inspection				<u> </u>	3A, 3B Installation work commenced on Nov. 18, 2008
		Excitation transformer inspection					Installation work commenced on Nov. 18, 2008.
		Main generator inspection				}	Inspection commenced on Feb. 20, 2008.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive					Transformer (B) carrying in and installation work comm
		500kV power cable inspection					Laying cables to be conducted from Jul. 17, 2009 to Jan
		Main exhaust duct inspection / restoration				·	Restoration work of substruction commenced on Jan. 9,
		Circulating water pipe inspection				1	Foundation improvement, excavating work, and inspect
(Seismic reinforcement	Seismic reinforcement works for reactor building overhead crane				1	Reinforcement work commenced on Dec. 8.
		Seismic reinforcement works for stack				<u>}</u>	Reinforcement work commenced on Jul. 21.
		Seismic reinforcement works for the fuel handling machine				+	Reinforcement work commenced on Nov. 2.
Unit No.4	Turbine facilities	Turbine inspection				1	High-pressure turbine and low-pressure turbine (A) (B) Low-pressure turbine (A) (B) restoration work of blade
	Other facilities	Main transformer inspection				4	Carrying in and installation work commenced on Aug. 2
		House transformer inspection					Carrying in and installation work commenced on Sep. 2
		Excitation transformer inspection				+	Carrying in and installation work commenced on Sep. 2
		Main generator inspection				1	Inspection commenced on Jan. 15, 2008.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive				1	Carrying in and installation work commenced on Jun. 1
		500kV power cable inspection				1	Preparation for laying cables commenced on Nov. 26.
						}	Preparation for restoration work commenced on Jun. 23
		Main exhaust duct inspection / restoration					
		Main exhaust duct inspection / restoration Restoration work of standby gas treatment system piping duct substruction					Restoration work commenced on Oct. 30.
5	Seismic reinforcement					1	

Status of Inspection / Restoration
onfirmation completed on Dec. 21.
Jan. 8, 2010.
B) (C) detailed inspection completed on Dec. 19. e turbine (A) (B) (C) completed on Dec. 19.
m Apr. 20 to Dec. 25. Pre-operational test completed on Dec. 17.
ucted from Mar. 30 to Dec. 25.
m Mar. 30 to Dec. 25.
15, 2010.
ection of pipes to be conducted from Aug. 6, 2008 to Jan. 12, 2010.
storage facility conducted on Dec. 17. ted on Dec. 19. Dec. 20. e facility and disposal equipment #1 conducted on Dec. 22. e facility and disposal equipment #1 to be conducted on Dec. 25. e facility and disposal equipment #2 to be conducted on Dec. 25. conducted on Jan. 5, 2010. lucted from Jan. 7 to Jan. 8, 2010.
B) (C) detailed inspection commenced on Dec. 7.
v. 30.
v. 30.
v. 50.
. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008.
B) (C) detailed inspection commenced on May 7, 2008.
g. 10.
08.
mmenced on May 27. Transformer (A) carrying in and installation work commenced on Jun. 3.
Jan. 29, 2010.
9, 2009. Restoration work of main exhaust duct commenced on Sep. 3.
ection of pipes commenced on Jun. 16, 2008.
B) (C) detailed inspection commenced on Aug. 3. des commenced on Sep. 28, 2009. (Replacement of wear and contacted blades.)
g. 28.
. 2.
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. 12.
i.
23, 2008.

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)

2	System / Equipment	Items	December 20 (Sun) to December 26 (Sat)	December 27 (Sun) to January 2 (Sat)	January 3 (Sun) to January 9 (Sat)	January 10 (Sun) to January 16 (Sat)	
Unit No.5 T	Turbine facilities	Turbine inspection					High-pressure turbine and low-pressure turbine (A) (B) Restoration work of high-pressure turbine and low-press
с	Other facilities	Main transformer inspection					Carrying in and installation work to be conducted from
		House transformer inspection					5A, 5B Carrying in and installation work to be conducted
		Excitation transformer inspection					Carrying in and installation work to be conducted from
		Circulating water pipe inspection					Foundation improvement, excavating work, and inspecti
s	Seismic reinforcement	Seismic reinforcement works for stack				1	Reinforcement work commenced on Jun. 23.
v	/erification of system integrity	System functional test					System functional test commenced on Nov. 13. Partial interlock functional test of liquid waste storage fa Functional test of feedwater pump to be conducted on Do
Unit No.6		Functional test for the entire plant					Final evaluation of functional tests for the entire plant co
Unit No.7		General integration inspection					General integration inspection to be conducted from Dec
ransformer (co	ommon) / Switch Yard	High-voltage start-up transformer #2 inspection				1	Carrying in and installation work commenced on Nov. 9
		On-site check / inspection / restoration of the oil protection bank for the transformer					Unit No.2 Restoration work commenced on Nov. 17.
nvironmental	Facilities	House boilers inspection				1	(Arahama-side) 1A Inspection completed on Dec. 10. 3A Electric boiler transformer carrying in and installati
		Restoration work of filtrate tank / demineralized tank on Arahama-side				1	Restoration work of No.1 demineralized tank to be cond Restoration work of No.1 filtrate tank commenced on Ju
thers		Restoration work for solid waste storage facility				l 	Prevention countermeasure for drum falling commenced
		Restoration work for administration building / information building, etc.				1	Restoration work for administration building and inform
		Reinforcement works for spent fuel transportation cask storage building				1	Reinforcement work commenced on Nov. 2.
		Construction of seismic-isolated essential buildings					Construction to be conducted from Oct. 14, 2008 to Dec
		Restoration of laundry facility building on Arahama-side				1	Restoration work commenced on Jan. 30, 2009.
		Reconstruction of arrestor steel tower on Arahama-side				1	Reconstruction commenced on Jun. 17.
		Reconstruction of arrestor steel tower on Ominato-side				***************************************	Reconstruction commenced on Sep. 3.
		Restoration and reinforcement work for the on-site / outside roads & slope, etc.					Restoration work for roads inside and outside of the site Restoration work of Daini Takamachi Bridge commence Maintenance work for the slope behind Daini Kigyou Ce

* 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.

* Unit No. 6 and Unit No. 7 are in the pre-conditioning operation at rated thermal output.

* The works to be suspended for the year-end and new year recess from Dec. 27 to Jan. 3. Periods may alter according to the progress situation of each work and inspection.

Status of Inspection / Restoration
B) (C) detailed inspection completed on Dec. 17. essure turbine (A) (B) (C) completed on Dec. 17.
m Mar. 25 to Dec. 25.
cted from Apr. 25 to Dec. 25.
m Mar. 2 to Dec. 25.
ection of pipes completed on Dec.17.
e facility and disposal equipment #1 conducted on Dec. 22. 1 Dec. 24.
t completed on Sep. 28.
Dec. 27 to Dec. 28.
v. 9.
lation work commenced on Oct. 13.
onducted from May 26 to Dec. 26. Jun. 1.
ced on Jan. 16, 2009.
ormation building is underway.
Dec. 25, 2009.
site currently in progress. need on May 12. 1 Center commenced on Oct. 20.