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)

| Conton / Conjument | Items | Mar. 15th (Sun) to Mar. 21st (Sat) Mar. 22nd (Sun) to Mar. 28th (Sat) Mar. 29th (Sun) to Apr. 4th (Sat) Apr. | . 5th (Sun) to Apr. 11th (Sat) Status of Inspection / Restoration |
|---------------------------|---|--|---|
| System / Equipment | | Mar. 15th (Sun) to Mar. 21st (Sat) Mar. 22hd (Sun) to Mar. 28th (Sat) Mar. 29th (Sun) to Apr. 4th (Sat) Apr. | |
| t No.1 Turbine facilities | Turbine inspection * | | Low-pressure turbine (B) internal inspection completed. High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commen 17, 2008. |
| Other facilities | Submerged equipment inspection on ground floor 5 of the reactor combination building | | Restoration work to be conducted from Mar. 17, 2008 to mid-April 2009. |
| | Main transformer inspection | | Carrying in and installation work to be commenced on Apr. 4. |
| | House transformer inspection | | Carrying in and installation work to be commenced on Mar. 28. |
| | Excitation transformer inspection | | Carrying in and installation work to be commenced on Mar. 28. |
| | Main generator inspection | | Inspection commenced on Feb. 7, 2008. Withdrawal of rotor completed on Mar. 5, 2008. |
| | 500kV power cable inspection | | Preparation work for laying cables commenced on Mar. 2. |
| | Main exhaust duct inspection / restoration | | Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008. |
| | 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 | | Preparation for reinforcement work commenced on Mar. 10. |
| | Seismic reinforcement works for the roof truss of the reactor building | | Reinforcement work communced on Jan. 22. |
| | Seismic reinforcement works for stack (Unit No.1 and Unit No.2) | | Preparation for reinforcement work commenced on Feb. 16. |
| | | | |
| | Seismic reinforcement works for the fuel handling machine | | Reinforcement work commenced on Jan. 30. |
| | Seismic reinforcement works for emergency intake channel | | Foundation improvement work commenced on Feb. 9. |
| t No.2 Reactor facilities | Reactor recirculation piping preventive maintenance | | Perparation work commenced on Dec. 16, 2008. Ultrasonic testing commenced on Feb. 18. |
| 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 | | Inspection commenced on Mar. 19, 2008. Rotor carrying in conducted on Mar. 18. |
| | Main exhaust duct inspection / restoration | | Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008. |
| Seismic reinforcement | Seismic reinforcement works for the roof truss of the reactor building | | Preparation for reinforcement work commenced on Feb. 9. |
| t No.3 Reactor facilities | Reactor recirculation piping preventive maintenance | | Preventive maintenance commenced on Sep. 12, 2008. The date of restoration of the piping cut-out part to be determined. |
| Turbine facilities | - | | Low-pressure turbine (B) (C) detailed inspection commenced on May 7, 2008. |
| | Turbine inspection * | | High-pressure turbine and low pressure turbine (A) detailed inspection commenced on Jun. 25, 2008. Low-pressure turbine (A) (B) restoration work of blades commenced on Jun. 25, 2008. (Replacement of wear and contacted blades.) |
| Other facilities | Main transformer inspection | | Transportation into the factory is underway. |
| | House transformer inspection | | 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. Rotor carrying in completed on Aug. 1, 2008. |
| | 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 | | Preparation for restoration work commenced on Jul. 23, 2008. Restoration of substruction commenced on Jan. 9. |
| | Circulating water pipe inspection | | Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. |
| Seismic reinforcement | Seismic reinforcement works for the roof truss of the reactor building | | Reinforcement work commenced on Nov. 27, 2008. |
| | Seismic reinforcement works for stack | | Preparation for reinforcement work commenced on Feb. 2. |
| t No.4 Turbine facilities | Turbine inspection * | | High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Sep. 30, 2008 and to be commenced 2009. |
| 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. Transportation of rotor into the factory completed on Jun. 11, 2008. |
| | 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 | | Preparation for restoration work commenced on Jun. 23, 2008. Restoration of substruction commenced on Nov. 4, 2008. |
| | | | |
| Seismic reinforcement | Seismic reinforcement works for the roof truss of the reactor building | | Preparation for reinforcement work commenced on Mar. 13. |

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)

[Inspection/Restoration Status]

| | System / Equipment | Items | Mar. 15th (Sun) to Mar. 21st (Sat) Mar. 22nd (Sun) to Mar. 28th (Sat) Mar. 29th (Sun) to Apr. 4th (Sat) Apr. 5th (Sun) to Apr. 11th (Sat) | Status of Inspection / Restoration |
|--------------------------|----------------------------------|---|---|---|
| | Turbine facilities | Turbine inspection * | | High-pressure turbine and low-pressure turbine (A) internal inspection completed. |
| | Other facilities | Main transformer inspection | V | Carrying in and installation work to be commenced on Mar. 23. |
| | | House transformer inspection | | Transportation into the factory is underway. |
| | | Excitation transformer inspection | | Carrying in and installation work commenced on Mar. 2. |
| | | Main exhaust duct inspection / restoration | | Preparation for restoration work commenced on Jun. 2, 2008. Restoration of substruction commenced on Nov. 20, 2008. |
| | | Circulating water pipe inspection | | Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2008. |
| | | Shuffling of the spent fuels in the spent fuel pool | | The date of shuffling of the spent fuels to be determined. |
| | Seismic reinforcement | Seismic reinforcement works such as pipe supports | ▼ | Preparation for the reinforcement work commenced on Mar. 16. |
| | | Seismic reinforcement works for the roof truss of the reactor building | | Reinforcement work commenced on Jan. 19. |
| | | Seismic reinforcement works for stack | | Preparation for reinforcement work commenced on Feb. 2. |
| Unit No.6 | Reactor facilities | Primary containment vessel closure | | Cordinating for the start date of closure work. |
| | Turbine facilities | Turbine inspection * | | High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12, 2008. Low-pressure turbine restoration work of blades commenced on Jan. 8. |
| | Verification of system integrity | System functional test | | System functional test commenced on Dec. 4, 2008. The date of primary containment vessel leak-rate inspection to be determined. |
| Unit No.7 | | | | |
| Transforme | er (common) / Switch Yard | High-voltage start-up transformer #2 inspection | | Inspection completed on Feb. 28. Preparation for transportation work to be conducted from Mar. 17 to Mar. 25. Transportation into the factory to be conducted on Mar. 26. |
| | | On-site check / inspection / restoration of the oil protection bank for the transformer | | Unit No. 1 Restoration work commenced on Oct. 4, 2008. Unit No. 2 Preparation for restoration work commenced on May 20, 2008. Recovery of oil-contaminated soil completed on Feb. 27, 2009. Unit No. 3 Restoration work commenced on Aug. 2, 2008. Unit No. 4 Restoration work commenced on Dec. 13, 2008. Unit No. 4 Restoration work to be conducted from Aug. 27, 2008 to Mar. 31, 2009. Serubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008. |
| Environmental Facilities | | House boilers inspection | | (Arahama-side) 1.A Inspection to be conducted from Apr. 8, 2008 to September 2009. 3.A Preparation for toransportation of electric boiler transformer commenced on Mar. 2. |
| | | Restoration work of filtrate tank / demineralized tank on Arahama-side | | Preparation for restoration work of No.1 filtrate tank/demineralized tank commenced on Dec. 2, 2008. |
| Others | | Restoration work for solid waste storage facility | | Prevention countermeasure for drum falling commrnced on Jan. 16. |
| | | Restoration work for administration building / information building, etc. | | Restoration work for administration building and information building is underway. |
| | | Construction of seismic-isolated essential buildings | | Construction commenced on Oct. 14, 2008. |
| | | Restoration of laundry facility building on Arahama-side | | Restration work to be conducted from Jan. 30 to late September. |
| | | 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 | V | Restoration work for bank protection commenced on Apr. 3, 2008. The works suspended from Dec. 13, 2008 to Mar. 15 for the winter sesason. The works restarted on Mar. 16. |

^{*} 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.

^{*} Handling of fires and hazardous materials has been banned since March 5th, 2009.

^{*} 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 on will be conducted by opening all turbine casings after conducting internal inspection.

- Internal inspection on will be conducted by opening the high-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.