Attachment

List of Topics for Discussion

1. 2013 Summary report on NPPs’ performance.
2. Turbine Departments: Operations in 2013, 2014 schedules, experience exchange.
3. Recently implemented and proposed measures for the plant’s power upgrading and efficiency improvement.
4. Analysis of typical turbine equipment failures, preventive and corrective measures.
5. Alignment and mating of low-speed turbine rotors techniques.
6. Implementation of a programme for upgrading secondary system water chemistry by eliminating copper containing alloys on VVER-1000 Units.
7. Upgrading of steam reheaters on Type 500-1 moisture separator reheaters (MSR) at Kursk and Smolensk NPPs.
8. Reliability improvements for separators of Type 500-1 MSRs associated with turbine generators Nos.1-6 at Kursk NPP.
9. Experience of the turbine facilities decommissioning at NPPs. Economic and technical justification for conversion the Biblis NPP’s Main Generator to the synchronous compensator mode.
10. Programme for turbine overspeed protection reliability improvements measures.
11. Upgrading of vibration control systems, mechanical control systems, implementing excessive vibration protections, adjustments of turbine vibrational characteristics and bringing vibrational characteristics up to standards.
12. Improving techniques for removing deposits from heat exchanger tubing.
13. Results of balance-of-plant component operation assessments by thermal power experts.
14. Experience with testing, startup operations and power assimilation at Bushehr NPP.
15. Alstom Atomenergomash’s Arabella turbine advanced technologies.
16. Advanced technologies of the LMZ OJSC.
17. Advanced technologies of the Turbatom OJSC.
18. High Pressure Cylinders upgrading at VVER-1000 NPPs for the plant’s power increasing.
19. Realization of measures on reliability assurance of steam generators and drum-separators pilot operated safety valves.
20. Realization of measures on reliability assurance of motor operated valves. Motors replacement on valves of steam and feedwater lines.
21. Use of advanced sealing materials.
22. Frequency primary regulation implementation at the Units.
23. Installation of automatic condensate extraction traps on the secondary circuits of NPPs.
24. Application of Hydropneumatic impulsive facilities for oil pipelines cleaning.
25. Novovoronezh-2, Leningrad-2, Beloyarsk-4, Rostov-3, 4 NPPs construction.
26. Application of electrohydraulic control systems at Kola, Kursk, and Smolensk NPPs.
27. Secondary circuit chemistry standard performance indicators assurance on JSC LMZ K-1000-60/3000 Turbine facilities.
28. Rotor cooling system performance assurance on Generators manufactured by JSC “Electrosila”.
29. Turbine oil operational reliability assurance. Oil purification systems reliability.
30. Application of advanced software for NPPs’ efficiency during the units thermal testing.
31. Standard programmes for turbine vacuum systems inleakage determination with using of vacuum-leak detector.
32. Analysis of state and prospects of nuclear and thermal energy development.