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TWO YEARS OPERATION AND RELIABILITY OF SSRF

SSRF, a 3.5GeV, 3.9nm.rad synchrotron light source, has been operated for users since May, 2009. The accelerator was operated in decay mode with machine availability of 95.7% and MTBF of 40hours. Most of the beam downs are triggered by the interlock in the super-conducting RF system. The main contribution to the MDT is the failure of LHe cryogenic system. The power supply system for magnets and the beam diagnostic system also influence the MTBF in operation. The top-up operation mode is being commissioned to increase the beam orbit stability. The reliability of injector will be upgraded to ensure the top-up operation mode opened for users. The detail operation performance, the main faults and the solutions are described in this paper.

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