Abstract

The Shanghai Synchrotron Radiation Facility (SSRF), has opened to user for eight years, and the performance has been improved continuously to satisfy the users’ needs. The operation performance and the reliability of SSRF have been kept in high level to provide users sufficient and stable synchrotron radiation laser. The report will focus on the operation performance of SSRF in last operation season, and the analysis of reliability is also shown in the poster. In addition, the upgrade program of SSRF accelerator, including superbend double-waist lattice, electronic power stabilization and Phase II beamline projects, will be shown in the poster too.

● Annual Operation Plan
  Shut down during the summer and winter
  Maintaining work for all systems
  Upgrade on software and hardware are done by all systems
  New IDs & Beamlines installations

● Every Week
  Regular operation meeting in every Monday, summarizing the work of last week & arranging current week, discussing the problems of the hardware and software

● Regular Maintenance
  Every one or two weeks, we have one day for the maintenance from 9 AM to 5 PM, checking and maintaining and then warming up for the operation

● Communication
  Using the Blog, WeChat and the remote desktop, every staff can deal with the problem more efficiently

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RF
The number & time of trip is still the most, but the recovery time ad level increase greatly

Power Supply
Slow drift of Tune due to partial power supply had slightly influenced the operation

Utility
The impact of external power grid still exist

Beam Instrumentation
The number and time of trip increased, the recovery time is longer

Cryogenic
The time mainly concentrated in the recovery of RF Cavity