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Status of Magnet System for CSNS RCS

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China Spallation Neutron Source (CSNS) accelerators include a 80 MeV Linac, 1.6 GeV Rapid Cycling Synchrotron (RCS) and two beam transport lines. There are nearly 300 magnets for these accelerators, including 24 DC biased 25Hz AC dipole magnets, 48 DC biased 25Hz quadrupole magnets, 16 DC sextupole magnets, 34 AC correcting magnets and 23 injection & extraction magnets for the RCS and other DC magnets for the Linac and the beam transport lines. In this paper, the status of RCS magnets will be presented, which includes the key technologies for the magnet production, some interesting results of the magnetic field measurements and some vital faults in process of the magnet commissioning.

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