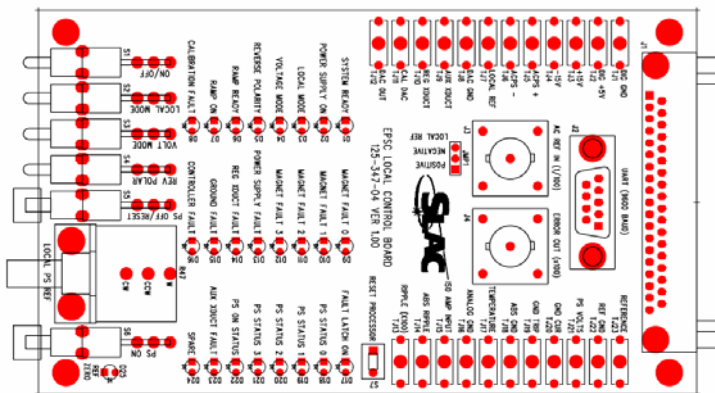


Power Supply Summary

- PS Controller
 - Provide 10 ppm current regulation

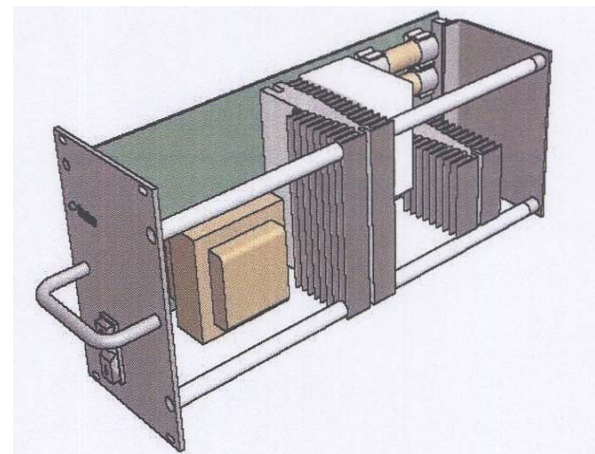


- New Local Control Board

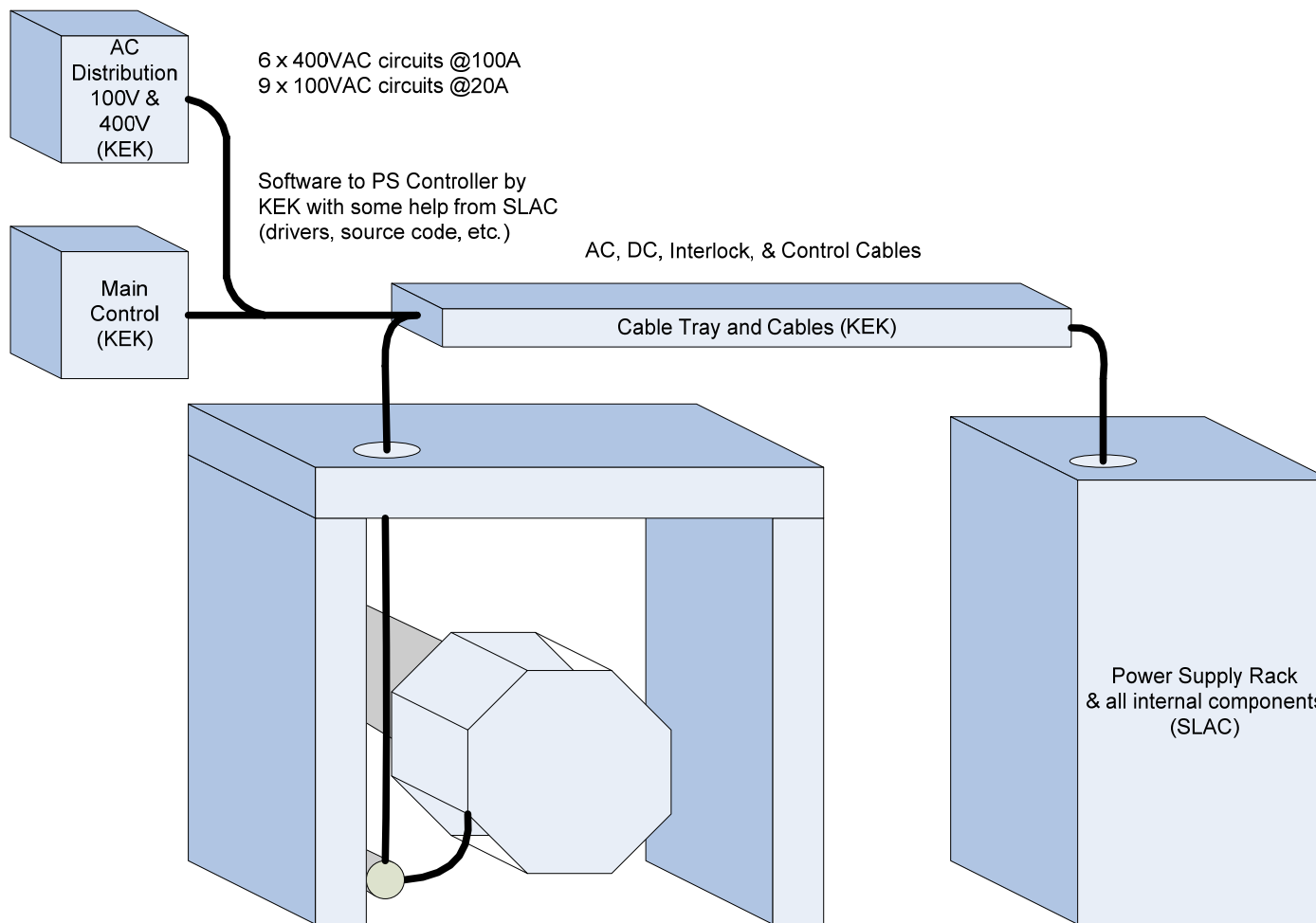


Power Supply Summary

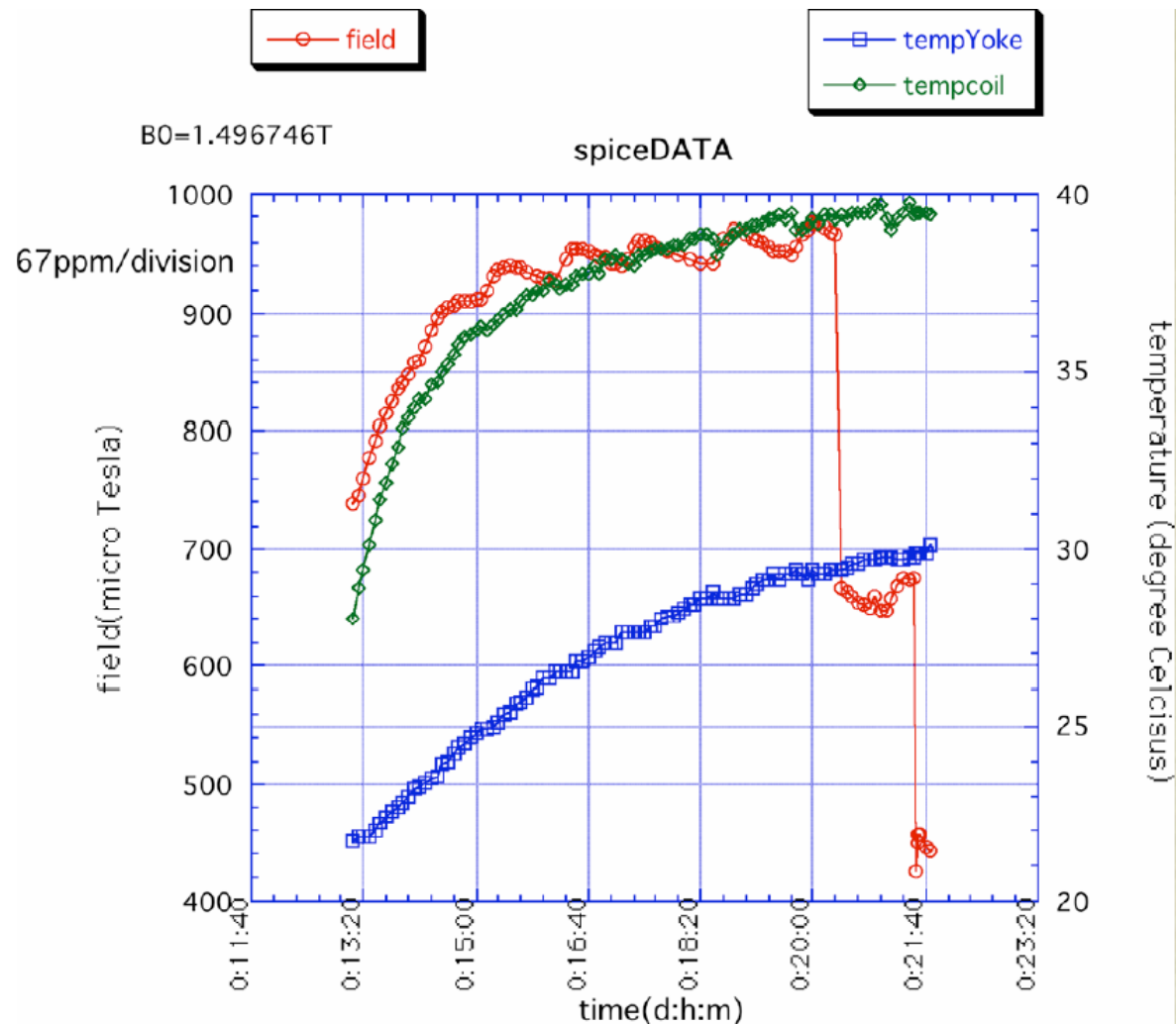
- Power Supplies
 - OCEM - N+1 Redundant Power Modules
 - Provide 50 – 200 A to magnets
- Schedule: Install in Spring 2008
 - Wait for finalized ATF2 commissioning schedule for exact power supply commissioning dates
 - May be commissioned in two parts depending on KEK schedule and preference



Power Supply Summary

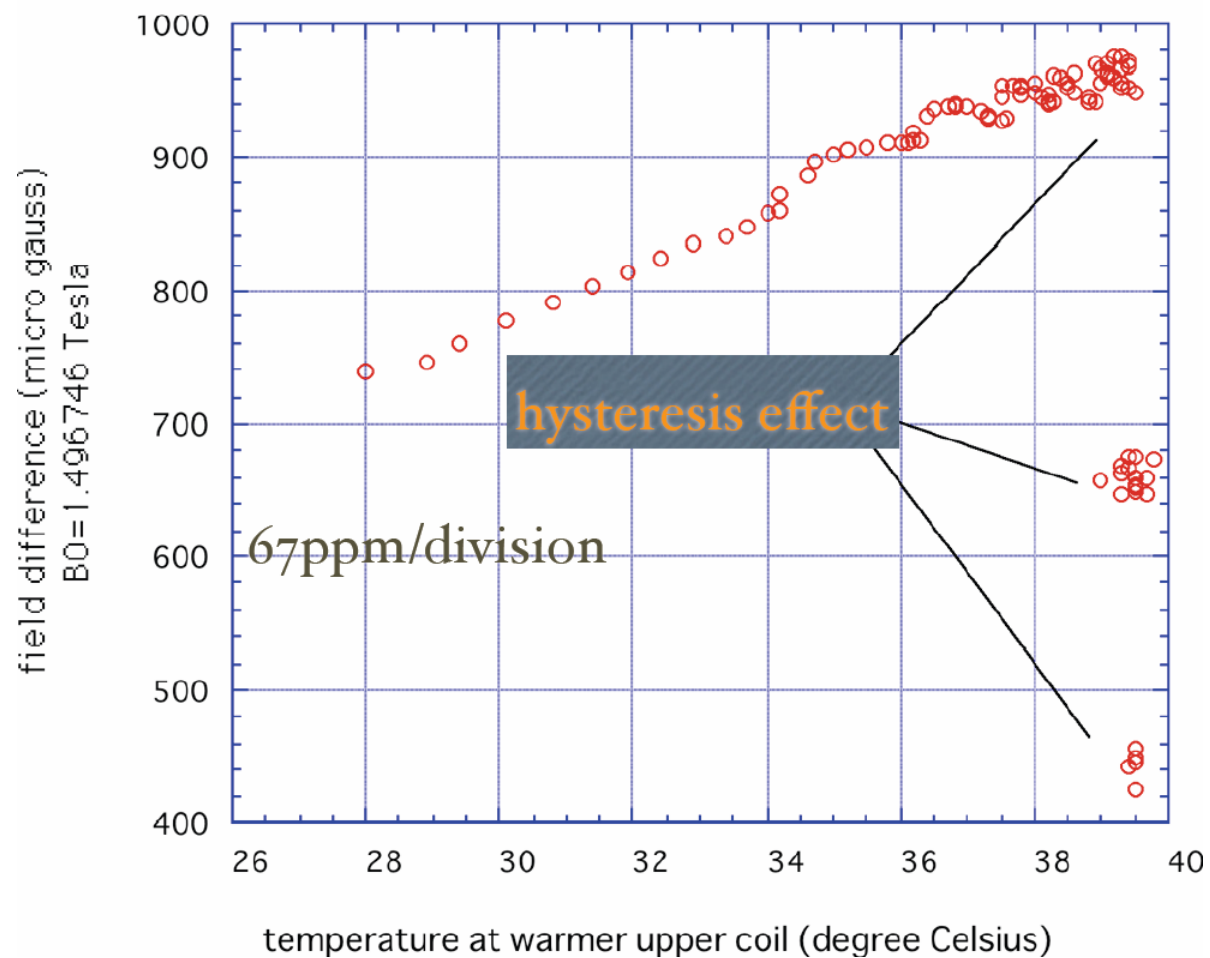


Magnetic Field Stability (M. Kumada)



Magnetic Field Stability (M. Kumada)

dipole magnet
Bfield vs coilTemp





Magnetic Field Stability (M. Kumada)

- Under good air conditioning, the amplitude of the magnetic field is strongly correlated with coil temperature.
- The observed temperature coefficient of the iron core electromagnet is about +14 ppm/degree. It is positive and can not be explained by the standard Bloch theory.
- Note hysteresis effect is larger than the temperature effect. We would monitor B magnet and Q magnet by the NMR.
- Local thermal insulation is economical and recommended.