

# Spectrometer Solenoid Testing

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Science & Technology  
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# Testing

- Thermal Differences during soak testing of the cryo coolers
  - At the tapered joint on the 1<sup>st</sup> stage of the coolers, 5 positions
  - Cold Mass Supports
  - All points of the Radiation Shield
  - Warm Bore using Temperature Probe
  - Monitoring of the Heater / Pressure feedback system
- Ramp current
  - Monitoring of all temperatures, pressures and voltage taps
- Continuous running at 270A for 24 hours
  - Monitoring of all temperatures, pressures and voltage taps
- Magnetic Measurements
  - Measurement taken on the beam line axis at approximate coil centres.



# Testing

- Thermal Capacity
  - Ramp heaters to ascertain cooling power and margin of cooling available.
  - Monitoring of all temperatures
- Ramp down / Dump circuit tests
  - Slow ramp to dump circuits.
  - Fast ramp to dump circuits.
  - Monitoring of all temperatures, pressures and voltages.

