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MAGNET SPECIFICATIONS

AMI JOB #021541-1-1 MAGNET #14432

TYPE: CRYOGEN-FREE HORIZONTAL FIELD MAGNET SYSTEM

MODEL: SPLIT COIL ACCESS

FOR: JEFFERSON SCIENCE ASSOCIATES - JLAB

TEST DATE: 6/17/2015

Rated Central Field ¹	
Rated Current	93.28 amp
Field to Current Ratio	0.536 kG/amp
Homogeneity over 1 cm DSV	±1.0%
Measured Inductance	39.8 henrys
Ramp Rate from 0 to 85A	0.0254 amp/sec. (1.0 V)
Ramp Rate from 85A to 93.28A	0.0031 amp/sec. (0.13 V)
Room Temperature Vertical Radial Access	Port 2.1" x 3.3"
Room Temperature Horizontal Axial Bore-	3.0"
System Cooldown Time from 300K to $4K^2$	~30 hours
Total Magnet/Switch Resistance ³	20 ohms
Persistent Switch Heater Current	
Persistent Switch Cooldown time	600 sec.
Persistent Switch Heat time	20 sec.
Approx. System Weight	475.5 lbs (215.68 kg)

^{1.} Magnet not warranted for operation above 50 kG.

^{2.} Compressor input power: 460-480 VAC/60 Hz (3 Phase)

^{3.} All resistance measurements made at room temperature at magnet power connectors.