SHMS Magnets Routine Pre-run Check Out Sheet

Date:						
Personnel:						
Experiment Number:	_					
Notes: Record Values in columns where ap	plicable.					
Special Notes:		НВ	Q1	Q2	Q3	Dipole
						1
A: Physical Observations		НВ	Q1	Q2	Q3	Dipole
Magnetic material near magnet cleared						
Electronic equipment near magnet cleared						
Personal near HMS advised of operations						
Magnetic field warning signs in place						
All clear around magnet						
			1	1	1	1
B: Vacuum Checks		НВ	Q1	Q2	Q3	Dipole
Condensation of Freezing on OVC						
Vacuum Reading	V = Torr					
Spectrometer Vacuum reading	V = Torr					
C: Cryogenic and Valve Checks		НВ	Q1	Q2	Q3	Dipole
U Tubes inspected for condensation/frostir	ng					1
CCR inspected for condensation/frosting ex						
N2 exhaust line.	•					

Audible check for gas leaks
Heater Tape working CCR neck

motor operations

Visual check of valve actuators, LVDT settings &

Lead flow valves operating and correct position

	1	 	1
Heaters set at ~40C & working			
Manual Valves in correct position:			
Current Leads flow			
Helium Cool down /Warm up			
From HMI screens:			
Cryo He Supply valve setting [5] %			
Cryo He Return valve setting [6] %			
Helium Liquid Level			
Helium Pressure atm			
Helium Magnet Average Temperature			
K			
Helium Temperatures within range [4.2 to 4.8K]			
Cryo LN2 Supply valve setting [2] %			
LN2 Liquid Level			
%			
LN2 Pressure			
ATM			
LN2 Magnet Average Temperature			
K			
LN2 temperatures within range [77 – 80 K]			
Helium and LN2 liquid levels maintained for last 24			
hrs.			
Valve Settings			
Open/close valve by 5% via PLC Manual Mode			
Valves at Hard Set [-6%] [1,3,4]			
Current lead flow valves at ~10% open and ~10			
I/min, no current			
Current lead flow valves at ~100% and ~200 l/min, no			
current			
		•	•

ESR Data & Transfer Line Temperature					
	T1	T2	Т3	T4	T5
HMS Transfer Line Temperatures K					
SHMS Transfer Line Temps K					
		CPI671SC	CFI6711C	CPI9521	CTD9521
ESR data: 4K Supply Pressure & Flow, 4K Return					
Pressure & Temp					
ESR and HMS data updating, logging and trending					

D: Electrical & Main Power Supply Checks	НВ	Q1	Q2	Q3	Dipole
UPS powered and on					
208V Magnet circuit breakers OFF					

	1			1
	Supply	Return	Flow	Temp
НВ	Q1	Q2	Q3	Dipole
	НВ			