SHMS Magnets Routine Pre-run Check Out Sheet

Date: 3/26/15		/	T.			
Personnel: Steven LASS: To Experiment Number: Q1 High Par Notes: Record Values in columns where a MAGNET IS RECOVERS		DENTA	MIN (ION	ES (SH	<u> </u>	
Experiment Number: <u>Q1 High Par</u> Notes: Record Values in columns where	wer 7est					
Notes: Record Values in columns where	applicable			10		,
(1) MAGNET IS RELOVED	ing from	AM	pin si	k Kon	ver ou	trac
	0					
						-
						•
Special Notes:		НВ	Q1	Q2	Q3	Dipole
			<u> </u>		<u> </u>	
A: Physical Observations		НВ	Q1	Q2	Q3	Dipole
Magnetic material near magnet cleared						
Electronic equipment near magnet cleare			V	_		
Personal near HMS advised of operations	\$					
Magnetic field warning signs in place						
All clear around magnet						
B: Vacuum Checks		HB	Q1	Q2	Q3	Dipole
Condensation of Freezing on OVC						
Vacuum Reading	V = Torr	·	4484106			
Spectrometer Vacuum reading	V = Torr		NA			
C: Cryogenic and Valve Checks			Q1	Q2	Q3	Dipole
U Tubes inspected for condensation/frosting						
CCR inspected for condensation/frosting except for						
N2 exhaust line.						
Audible check for gas leaks			\ \ \ \ \			
Heater Tape working CCR neck			~			
Visual check of valve actuators, LVDT sett	···					

motor operations

Lead flow valves operating and correct position

Heaters set at ~40C & working		
Manual Valves in correct position:		
Current Leads flow		
Helium Cool down /Warm up	Ing Fill	
From HMI screens:		
Cryo He Supply valve setting [5] %	848	
Cryo He Return valve setting [6] %	99.2	
Helium Liquid Level	61.0%	
Helium Pressure atm	1.337	
Helium Magnet Average Temperature K	4.51	
Helium Temperatures within range [4.2 to 4.8K]		
Cryo LN2 Supply valve setting [2] %	56.4	
LN2 Liquid Level	75.2	
LN2 Pressure	1.029	
LN2 Magnet Average Temperature K	79	
LN2 temperatures within range [77 – 80 K]	V	
Helium and LN2 liquid levels maintained for last 24 hrs.	NºO	
Valve Settings		
Open/close valve by 5% via PLC Manual Mode		
Valves at Hard Set [-6%] [Quads:1,3,4]		
Current lead flow valves at ~10% open and ~10 I/min, no current	1	
Current lead flow valves at ~10% and 2,000 l/h, no current		

ESR Data & Transfer Line Temperature		He S	HeR	LNZ	HeR	Hes	
			T1	T2	T3	T4	T5
HMS Transfer Lines Temperatures	µm5	К	4.64	4.71	94.0K	4.47	4.64
	SHMS		6.4	7.9	143.3		
				CPI671SC	CFI6711C	CPI9521	CTD9521
ESR data: 4K Supply Pressure & Flow, 4K Return Pressure & Temp			1.6 ATM	10.78/5	1.24tm	4.2K	
ESR and HMS data updating, logging	and trendi	ng					

D: Electrical & Main Power Supply Checks	НВ	Q1	Q2	Q3	Dipole
UPS powered and on		_/_			
480V Main wall circuit breaker locked OFF		V			

Fixe GUSE

	108.3			
	Supply	Return	Flow	Temp
	245	40	69.8	80
	1			
	V			
	NA			
НВ	Q1	Q2	Q3	Dipole
-				
	V			
	0.077			
	1			
	1/	ĺ		
	NA			
	1/			
-	/			
	НВ	245 NA NA NA NA O.077 O.011 O.077 O.077	108.2	Supply Return Flow 245 40 69.8