

THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY
12000 Jefferson Avenue
Newport News, VA 23606

HALL B PROCEDURE NO.: B000000400 –P002 Rev - A

TITLE B000000400-P002 Hall B Solenoid Operations Power Up Checklists

BY: R. Fair DATE: 01-30-2017

Intended Checker and Approvers:

CHK: P. Ghoshal

1. APP: R. Rajput-Ghoshal

A		Updated list with 3 more checks under Section 8	R. Fair	P. Ghoshal	R. Rajput- Ghoshal						
REV.	ECO#	DESCRIPTION	BY	СНК.	APP.	APP.	DATE				
SUMMARY OF CHANGES FROM PREVIOUS REVISION:											

	B000000400-P002 Hall B Solenoid Operations Power Up Ch			
	Ensure that the following checklist has been completed:			
	B000000901-P006 Hall B Check Lists for Cool Down of Cryogenic Systems			
ection 1	, Initial List, Instrument Checks		BY (Initials)	Date
B000	000400-P003 Hall B Solenoid Pre-Power-Up Instrument Checkout Procedure			
	Magnet PLC Operational			
	Low Voltage Chassis and cRIO DAQ Operational			
	Fast DAQ cRIO Operational			
	Magnet Coil Temperature Sensors Checked			
	Thermal Shield Temperature Sensors Checked			
	SST Temperature Sensors Checked			
	Magnet Load Cells Checked			
	Hall Sensors Checked			
	EPICs Screens Operational			
ection 2	, Initial List, Water-Cooled Leads			
	000400-P007 Hall B Solenoid Pre-Power-Up Water-Cooled Leads Checkout Procedure			
	Bolted Connections at Solenoid Service Tower End Checked			
	Bolted Connections between 9ft leads and 39ft leads Checked			
	Bolted Connections at Power Supply End Checked		†	
	Water Connections at Solenoid Service Tower End Checked			
	Water Connections between 9ft leads and 39ft leads Checked		1	
	Water Connections at Power Supply End Checked		1	
	Water Flow Rate Checked		1	
	Electrical Isolation Box at Power Supply End Checked			
	G10 electrical isolation box at connection between 9ft leads and 39ft leads Checked			
	, Initial List, Vapor-Cooled Leads			
B000	0000400-P008 Hall B Solenoid Pre-Power-Up Vapor-Cooled Leads Checkout Procedure			
	Vapor-Cooled Lead Flows calibrated and programmed			
	Vapor-Cooled flag heaters On and set to temperature			
	Vapor-cooled leads exhaust heaters On and Controls Calibrated			
	Electrical Isolation Box at Solenoid Service Tower End Checked			
ection 4	, Initial List, Magnet Power Supply			
B000	0000402- P001 Hall B Superconducting Magnets Pre-Power-Up Power Supply Internal Interlock C	Checklist		
	EPICs Screens Operational			
ection 5	, Initial List, Low Current Voltage Tap Check			
	1000400-P006 Solenoid Low Current Voltage Tap Check Procedure			
5000	EPICs Screens Operational			
	Check voltage tap test panel switches are in the MAGNET OPERATION position			
	Ensure the voltage tap test panel switches are adminstratively locked			
	, Initial List, Interlock Checks 1000400-P005 Hall B Solenoid Pre-Power-Up Interlock Checkout Procedure			
	EPICs Screens Operational			
oction 7	Initial List, Quanch Datactor Charles			
	, Initial List, Quench Detector Checks 1000400-P004 Hall B Solenoid Pre-Power-Up Quench Detector Tuning			
Вооо	EPICs Screens Operational			
	Engineering Charles			
ection 8	Chall that the Salar sid Manach Conveyd on blair annual to the annual frame			
	Check that the Solenoid Magnet Ground cable is connected to the spaceframe			
	Check that the Hi-Pot test to 750 V is complete (with PSU Ground resistor removed)			
	Check that the PSU Ground resistor has been re-installed			
	Check that there is no loose ferromagnetic material within the 5 Gauss boundary			
	Check that pump trolleys, etc. have been either tied off or locked down so they cannot mo	ove	ļ	
	Check that the Solenoid magnet has been roped off at the 5 Gauss boundary			
	Check that all other relevant magnetic field boundaries have been marked			
	Check that no cranes or manlifts are operational			
	Ensure that the crane has its hook in its uppermost position			
	Ensure that flashing beacons are operational			
	5			
	Post appropriate signage at all entrances to the hall (including the truck ramn)		1	
	Post appropriate signage at all entrances to the hall (including the truck ramp) Inform all personnel within the hall that power-up of the Solenoid magnet is imminent			
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