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TORUS

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

HALL B PROCEDURE NO.: B00000-04-01-P017 Rev -

TITLE: Torus Low Current Voltage Tap Cheek Procedure	DATE: April 6, 2016	
BY: Probir Ghoshal		
CHK: Josh Ballard		
APP: Ruben Fair		

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Item	Checked by:	Date
Establish whether the Torus has a ground fault or via another procedure (carried out normally leakage current test)		-
Measure "Voltage Drops" (a) Current Limiting Resistor Boxes	NA	
Current Limiting Resistor Boxes connected on the feedthroughs out on the hex beam		
Cable connected to the Current Limiting Resistor Boxes on the feedthroughs out on the hex beam.		
Attach the negative lead of the Multimeter/Volt Meter to Positive Lead of the Torus	_	_
Run current through the Torus with "floating" supply at <60 V with installed resistor / diode safety discharge circuit (Positive Voltage to Positive Lead).	_	-
Using the positive lead of the Volt meter ~ Measure the values at connections at terminal strip and "Primary" Voltage Taps (VT1- VTXX and VTXXr) cascade at the pins of terminal FRONT PANEL after the Current Limiting Resister Box on the coil VT feedthrough on hex beam (See B00000-09-00-0180 RevA).		
Record on a new set of dated columns on spread sheet for "Primary" Voltage Tap readings on M drive: shared drive Tab: Magnet Voltage Readings (Primary Column)  Saved at the following location- M:\hallb_eng\CLAS12\Magnets\Torus\JLab Torus\C&I_Torus\Installation_HallB\Tests in Hall\Inductance &Res Measurement_HallB\Hall Torus Voltage Tap Wiring Checkouts v1_Low current measurement.xlsx		
Log the results Slowly discharge voltage from power supply by decreasing voltage to zero and remove test leads.	NA	

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