

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

HALL B PROCEDURE NO.: B000000401 –P023 Rev - A

TITLE: Hall B Torus Pre-Power-Up Vapor-Cooled Leads Checkout Procedure

BY: R. Fair

Intended Checker and Approvers:

CHK: D. Kashy
1. APP: P. Ghoshal

DATE: 09 / 21 / 2016

7/12/2006

Completed

	*						4 A	
A		Added pictures	RF	DK	PG		9/21/16	
REV.	ECO#	DESCRIPTION	BY	СНК.	APP.	APP.	DATE	
SUMMARY OF CHANGES FROM PREVIOUS REVISION:								

Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A

Introduction

The checklist below should be completed only in conjunction with the most current release of the B000000401-P021 Hall B Torus Operations Power Up Checklists.

This document refers to the Vapor-Cooled Leads connecting the Water-Cooled Leads on the Torus Service Tower to the Torus magnet.

Checklist

Hall B Torus
Pre-Power-Up Vapor-Cooled Leads Checkout Procedure

Date 7/13/2020

Indicate relevant items requiring check below!

Relevant	Checked	Verified	I
Item:	By/Date	By/Date	
	7 /13/2	-TL 7/1/21	1. Have the lead flows for EACH Vapor-Cooled Lead been calibrated and programmed. Use a local flow meter and FI8651, and do a subtraction between the values measured. Check that the lead flow rate is higher than 112 SLPM. Lead flow for VCL1 lead 88.47 SLPM Date 113 W Lead flow for VCL2 lead 88.27 SLPM Date 113 W
N/K			2. Check that EACH of the Vapor-Cooled Lead heaters have been turned ON and have been set to temperature. Set the temperature to approximately 15°C (60 F) for all the heaters Set temp for VCL1 lead Heater #1°C Date Heater #2°C Date Heater #3°C Date Set temp for VCL2 lead Heater #1°C Date Heater #2°C Date Heater #3°C Date Note: As necessary adjust the heater temperature settings to prevent condensation and ice on any of the flanges.

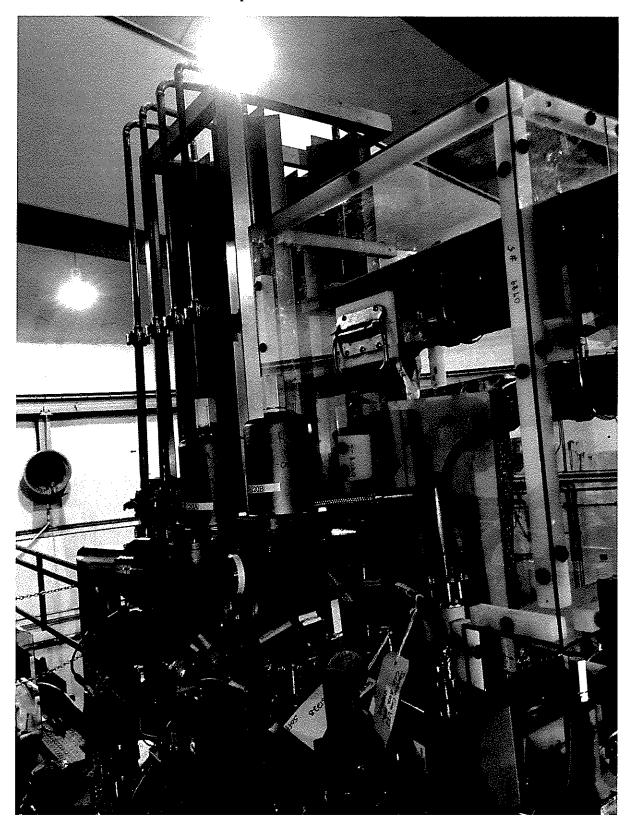
Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A

NIA			3. Check that the G10 electrical isolation plates have been installed correctly between the two Vapor-Cooled Leads and inbetween each lead and the lead gas exhaust port. (Ref. Drawing No. B00000-09-01-0813 and the figures below)
MA			4. Check that the electrical isolation box at the Torus Service Tower end has been installed correctly (Ref Drawing Nos B00000-09-01-0784, B00000-09-01-0789 and the figures below)
Nla			5. Make sure that manual valves MV8121A and B are open
MN	2 -		6. Make sure that the vent solenoid valve SV8122 is operational
		VAPOR	-COOLED LEAD CHECKS COMPLETE

Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



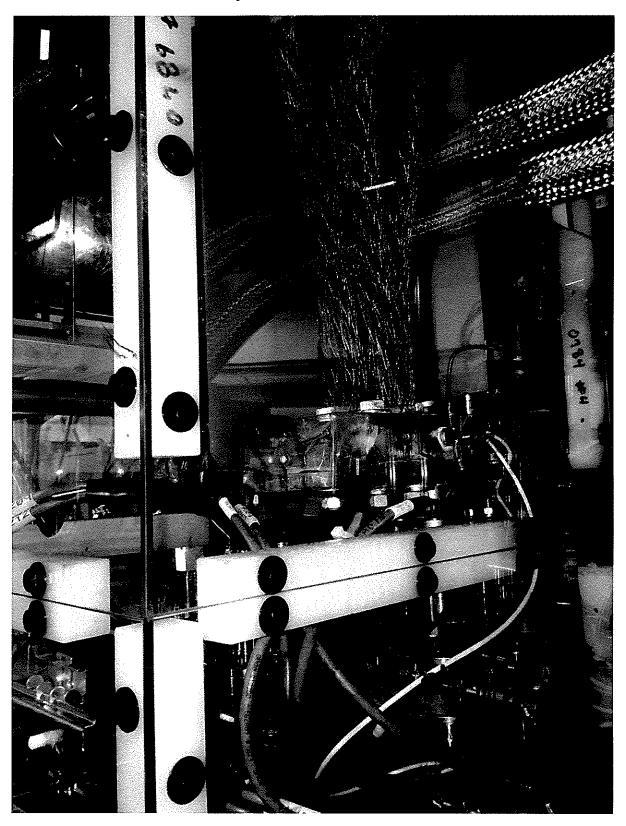
Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



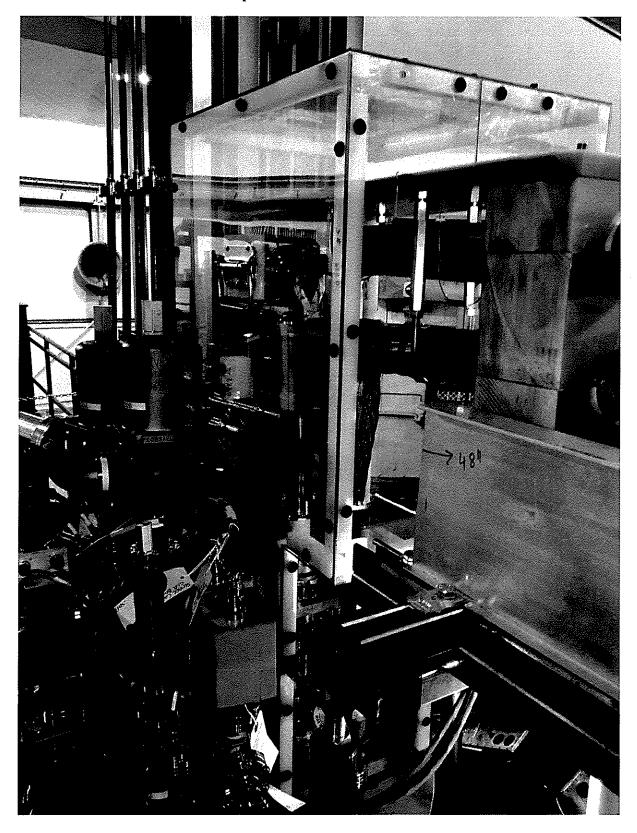
Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



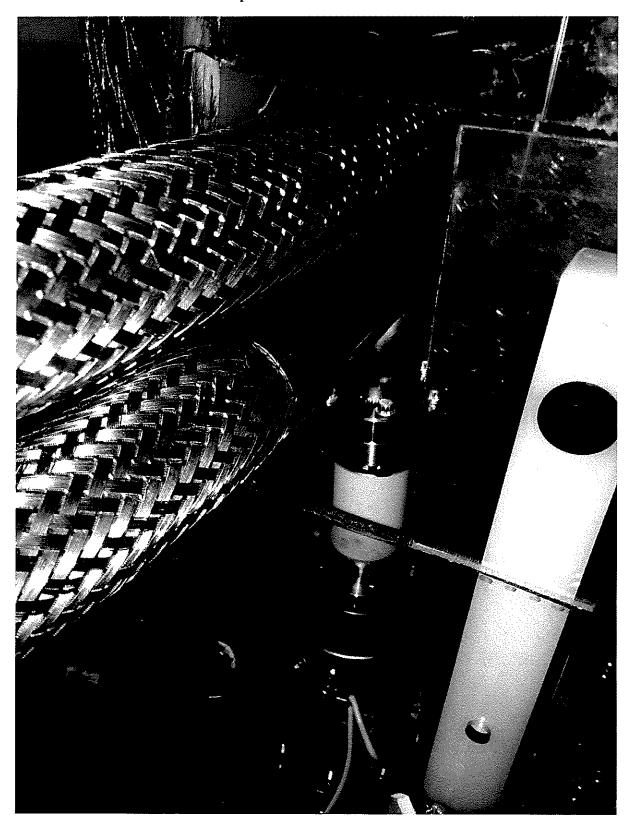
Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A



Hall B Torus Pre-Power-Up Water-Cooled Leads Checkout Procedure Rev A

