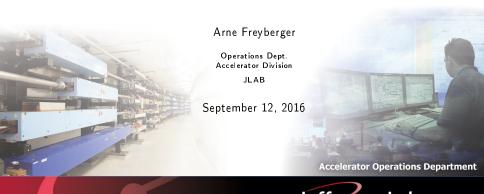


lon-pump hi-potting in CEBAF



Jefferson National Accelerator Facility

Hi-potting in CEBAF

1 Hi-potting in CEBAF

Memorandum

Not sure an official memorandum was ever transmitted. If it was, it stated:

Hi-potting Memorandum

The practice of hi-potting ion pumps in the CEBAF cold regions is terminated indefinitely. The CEBAF cold regions are defined as the beam vacuum space between the differential pump stations at the start and end of SRF sections. There are four cold regions in CEBAF; 0L02, 0L03-0L04, North Linac and South Linac.

The path forward for maintaining and monitoring the vacuum in the *cold region* include:

- Independent vacuum monitoring, use ion-pumps as pumps not gauges.
- Develop and demonstrate a procedure to re-establish vacuum gauging capability of ion-pumps that is particulate free and acceptable to SRF.
- Upgrade of the pumping systems that are compatible with the SRF particulate requirements and OPS monitoring needs.



Hi-potting elog entries since 2015-08

Date	elog #	Ion Pump	Comment
2016-08-22	3418662	0L03	Warm region between 0L02 and 0L03
2016-08-12		VIP1L1020	Waveguide
2016-07-21		VIP2L0850	Waveguide
2016-04-27		VIP3A17	Warm region, Arc3
2016-04-27		VIP3A16	Warm Region, Arc3
2016-04-27		VIP3A18	Warm Region, Arc3
2016-05-16		*VIP2L01*	Erratic readings, returned to "normal"
			on its own. DP station ion pump.
2016-03-16		VIP1L0840	Waveguide
2016-02-05	3375647	VIP2L24A/B	Hi-pot failed, damaged power supply
2015-10-21		VIP3D01	Warm region, Mott line
2015-08-12	3348260	North Linac	"hi potted various Ion Pumps"

DP Stations

What is the right procedure for the DP stations? Has the DP activation procedure been reviewed by SRF?



