

Polarized Target Reassembly

Karl J. Slifer

[UNIVERSITY OF VIRGINIA](#)

SANE Planning Meeting

JLab

Nov. 8, 2007

Target Resurrection



M. Seely & Co. have started target reassembly

Pump set and Platform are setup in the EEL

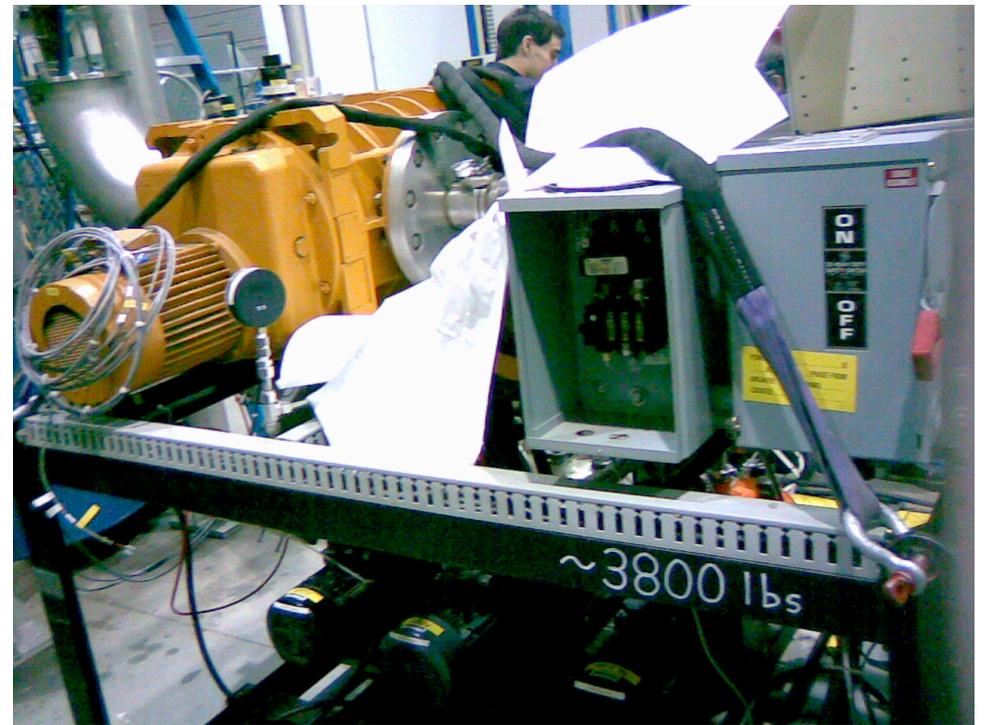
Dewar and Magnet in progress

Found microwave table/motor and encoder

Searching for some pieces after 6 yrs storage

-eg. OVC vacuum control box
controls gate valve,diffusion pump,
mech pump and Balzers readout.

Main Bay, EEL Building



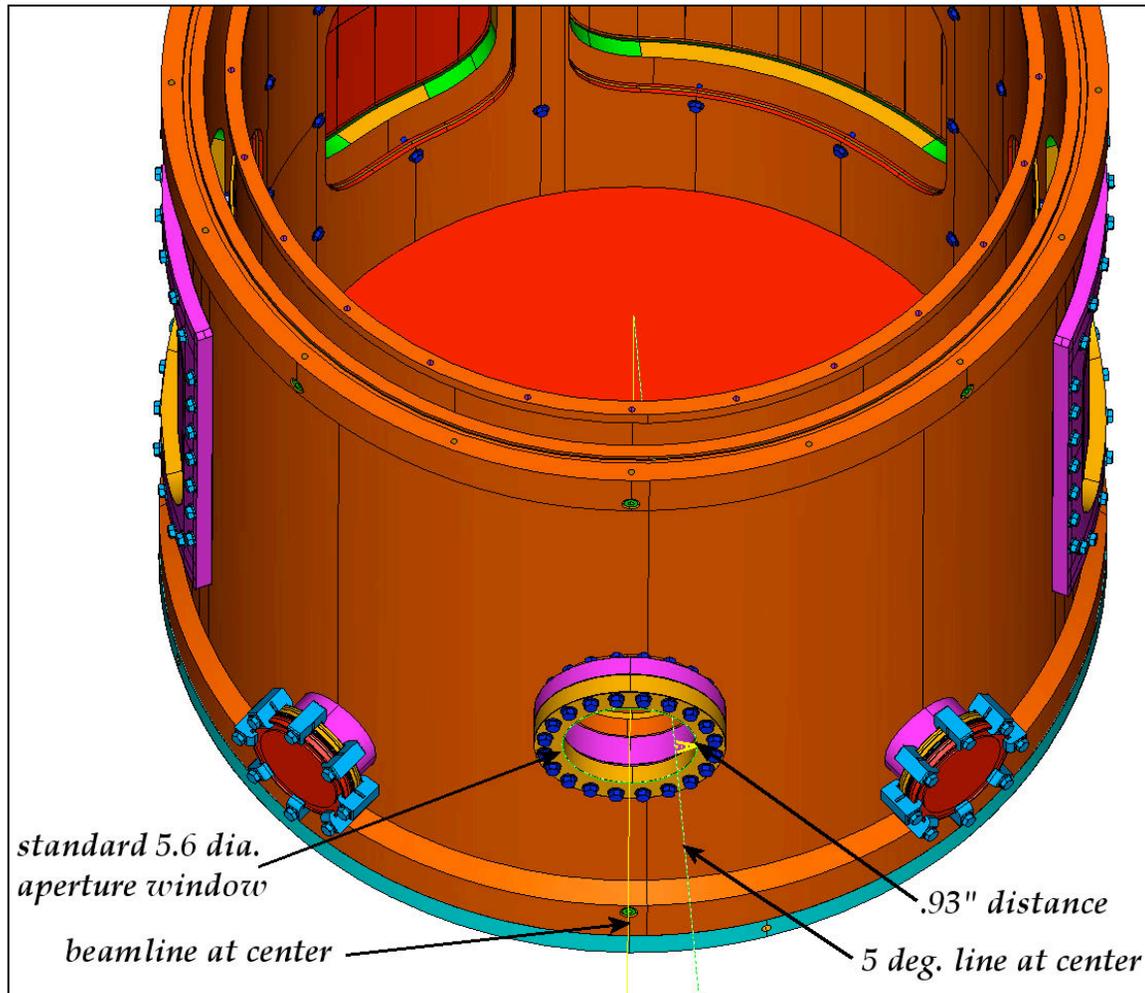
Parts from UVA

James Maxwell brought following items from UVA on Thursday:

- 1) Combination bellows and microwave switch control
 - 2) Target position control box (for insert and microwave table)
 - 3) Target position encoder readout
 - 4) EIO Bellows/Microwave control box (counting house)
-
- 1) Homemade long cable to go from junction box at PS to junction box at EIO
 - 2) Two remote EIO control panels and cables
 - 3) Junction box that connects to EIO (with cable to EIO) and to homemade long cable
 - 4) Beige junction box at EIO
 - 5) Spare EIO junction box
 - 6) Sheathed medium length cable made by CPI

Don will bring refrigerator next week.

Upstream Be Window



Vendor: Brushman Wells

Price : \$2,400 5.6" O.D. aperture

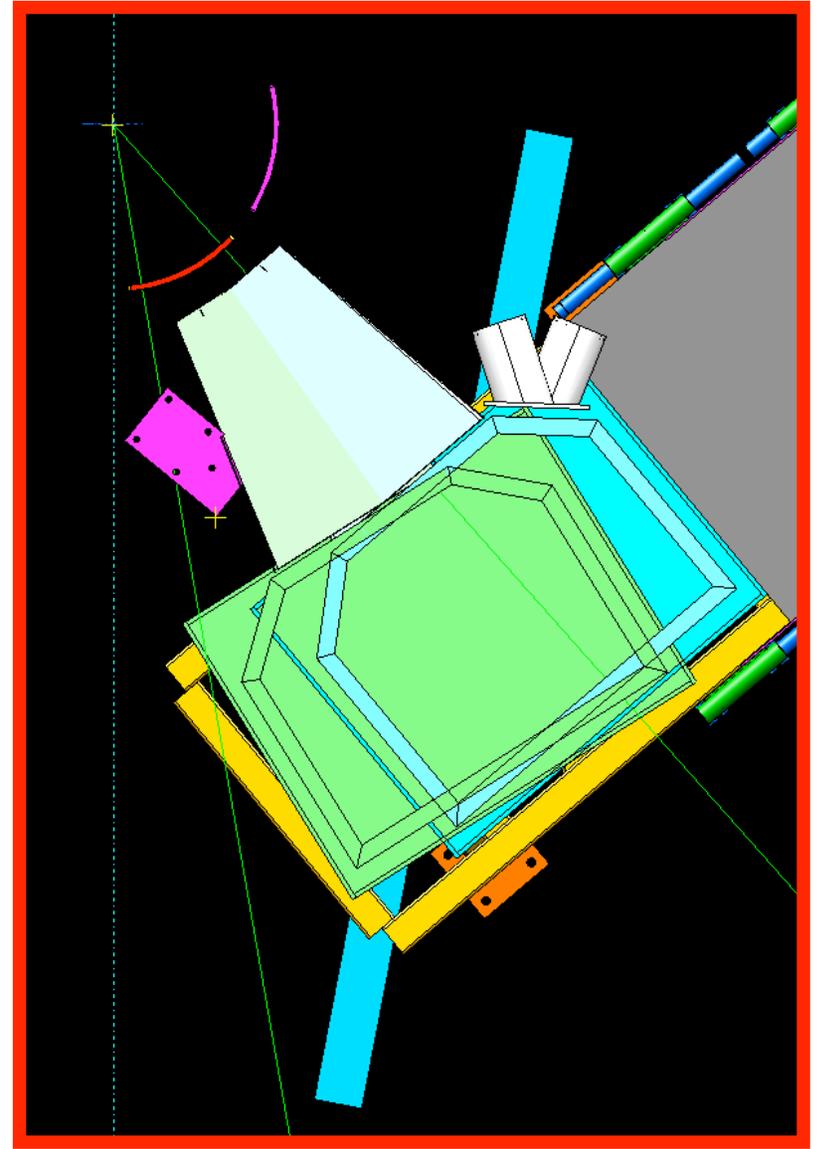
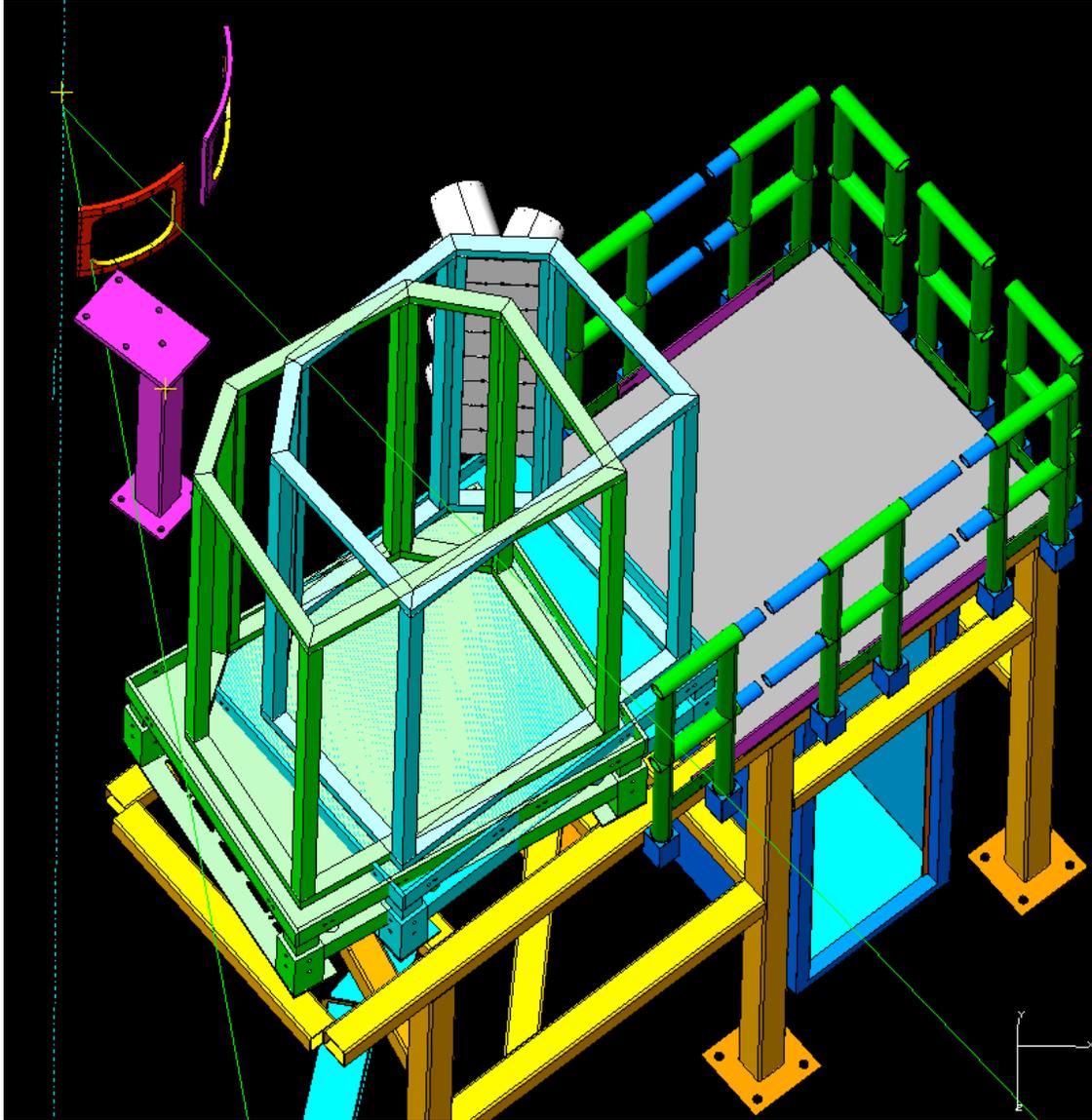
They can custom manufacture a flange with 6" aperture for \$4,700
-Largest possible from this vendor

Bert would like to use the standard 8" flange with 5.6" aperture.

With 1cm raster radius, this leaves ~1/2 inch clearance for WAC
5 degree rotation (if beamline is passing through center of can.)

Thanks to B. Metzger for graphic

Platform obstruction



Thanks to D. Young for schematics

General Comments

OVC delivery by end of month.

Bert will travel to manufacturer next week for assembly.

Smaller Beryllium window : Any problem for WAC?

Some beamline questions (maybe already resolved...)

Position of target platform support leg

Downstream air gap between OVC and SemiSane beampipe