Status of Vacuum Vessel Sizing

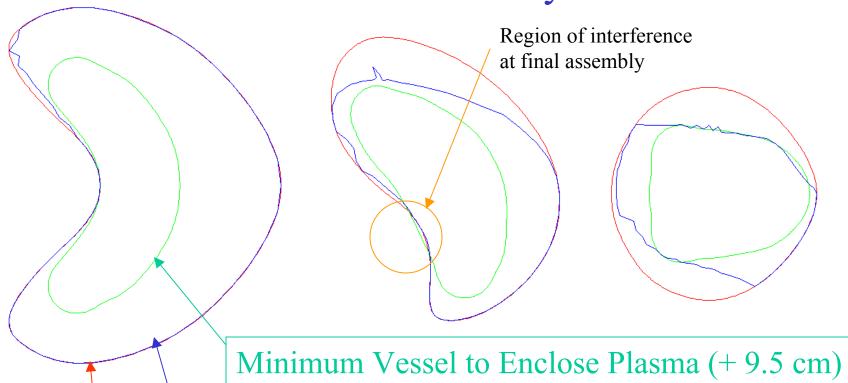
- Still Struggling with demonstrating minimum vessel can be assembled with adequate clearance
 - initial radial displacement needed, but limited in part by NB geometry. Can Vessel shrink near NB?

Rehash of Build Stack-up

	Brad's Data	Favorable Modular Coil Orientation
Plasma to VV outer surface	10.43	10.43
Plasma Scrape-off	2.00	2.00
In Vessel Components	7.00	7.00
VV Shell and Inner Tolerance	1.43	1.43
Coil Centroid to VV outer Surface	11.28	10.26
VV Tubes, Insulation and Outer Tolerance	3.02	3.02
Modular Coil Center to Outer Edge of Straps	8.26	7.24
Assembly Clearance	0.00	0.00
Total - Plasma to Coil Centroid	21.71	20.69
Available Envelope	20.86	20.86
Interference	0.84	-0.17

0.00 assembly clearance requires initial radial displacement to open up clearance before removal. NB port limits this.

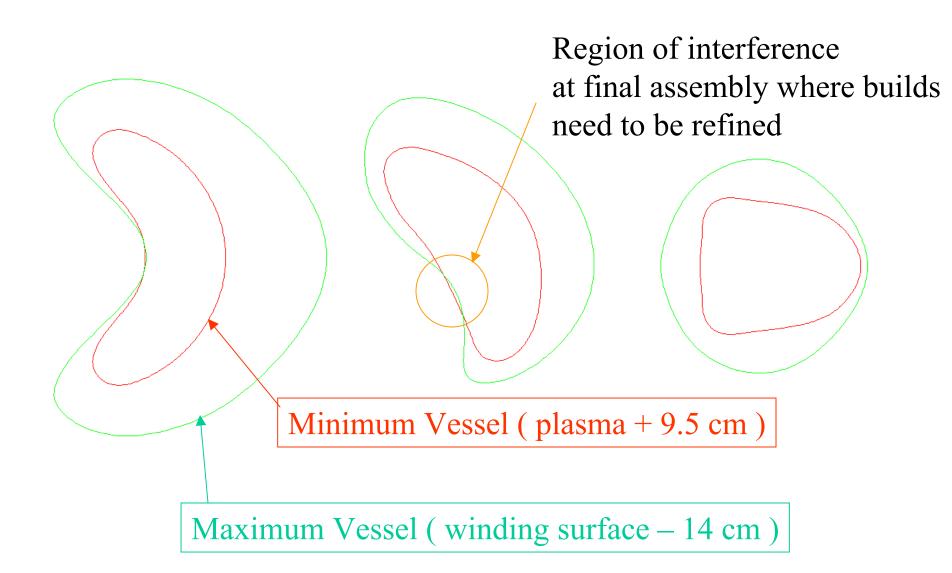
Maximum Vessel Envelope Defined by Trace of Coils along Calculated Assembly Path

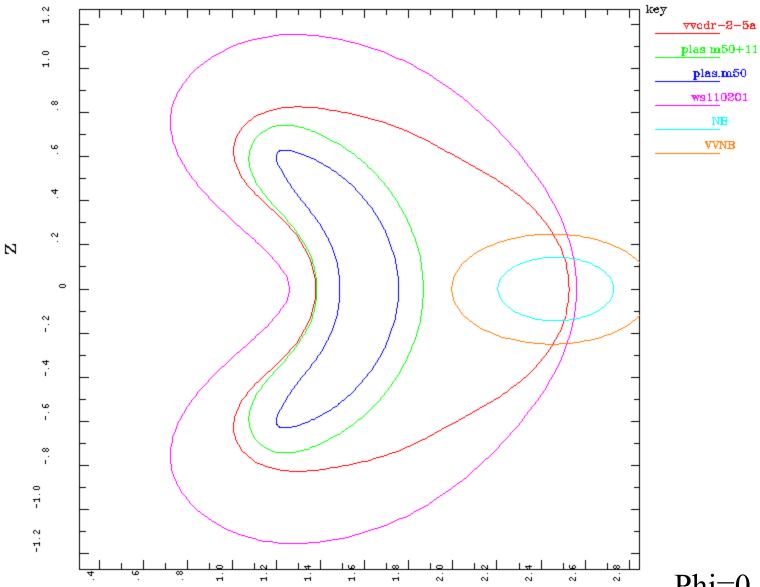


Maximum Vessel Envelope traced out by assembly path

Maximum Vessel based on coil winding surface (– 14 cm)

Envelope for Defining Vacuum Vessel





Phi=0. deg

