

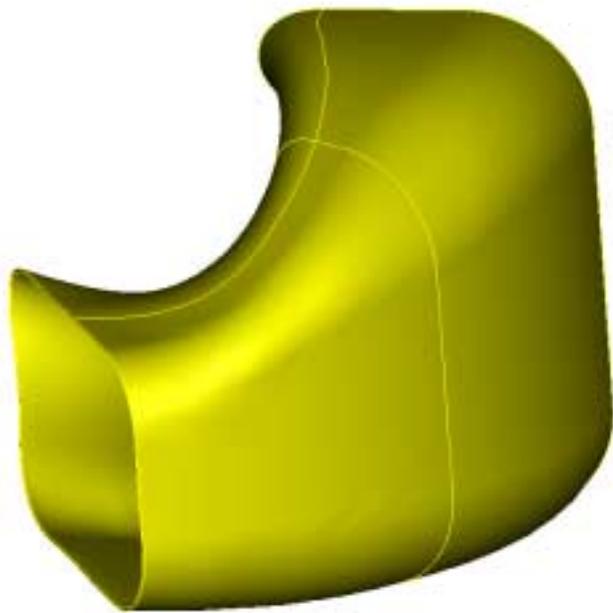
NCSX Alternate VV Geometries

T. Brown (pppl)

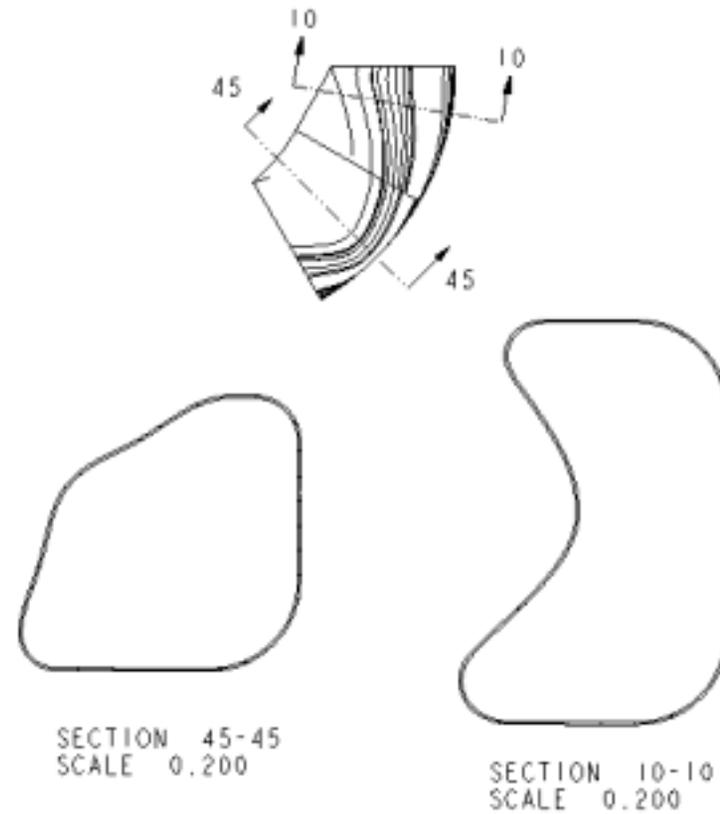
B. Nelson (ornl)

NCSX Project Meeting

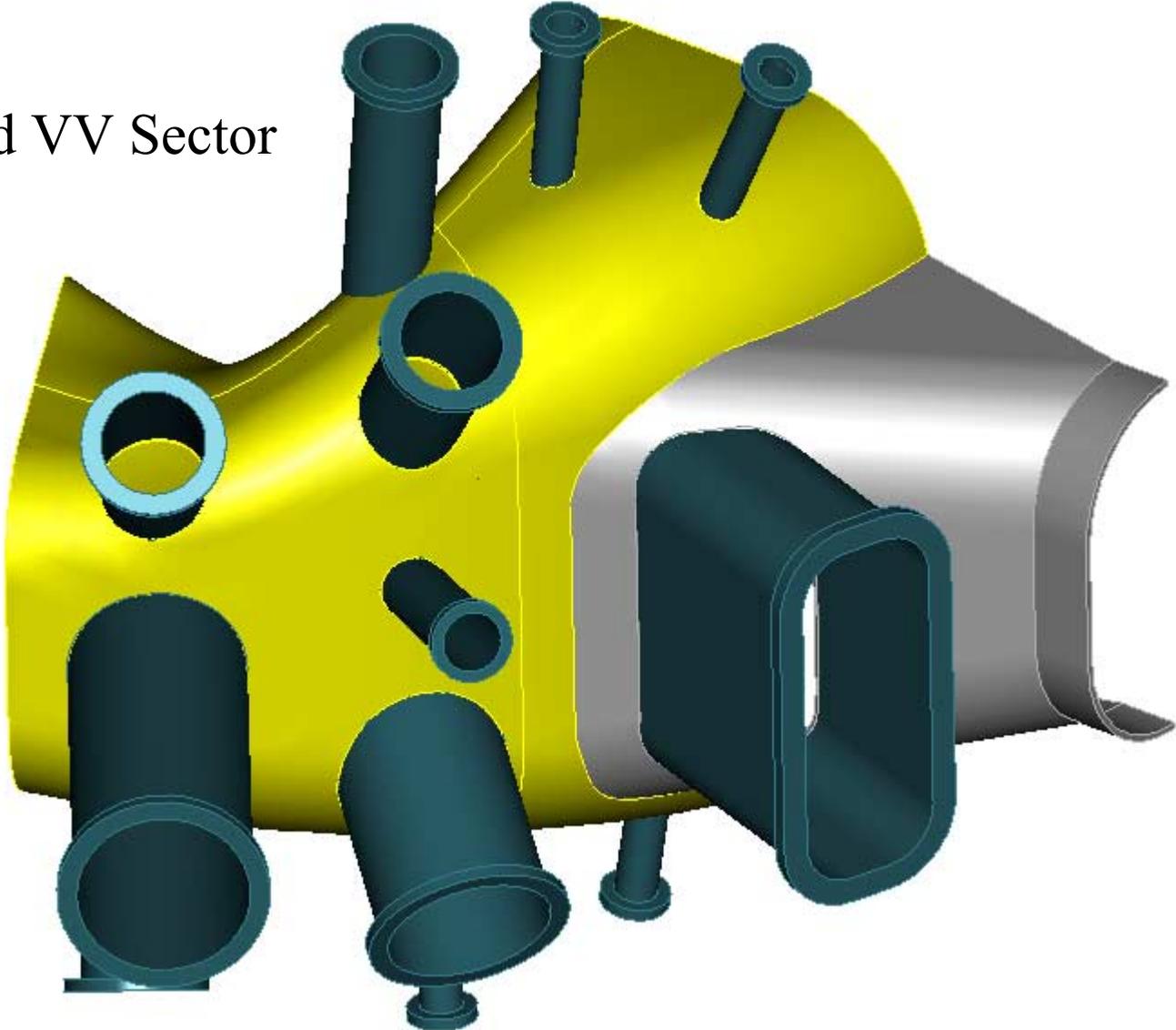
June 24, 2001

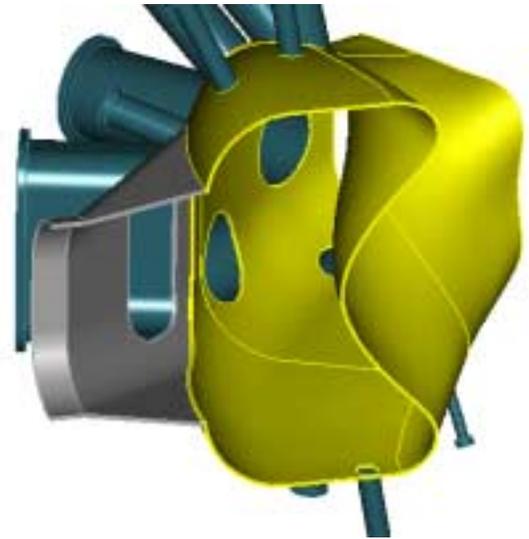


Typical section cuts
through VV shell with no
port holes.

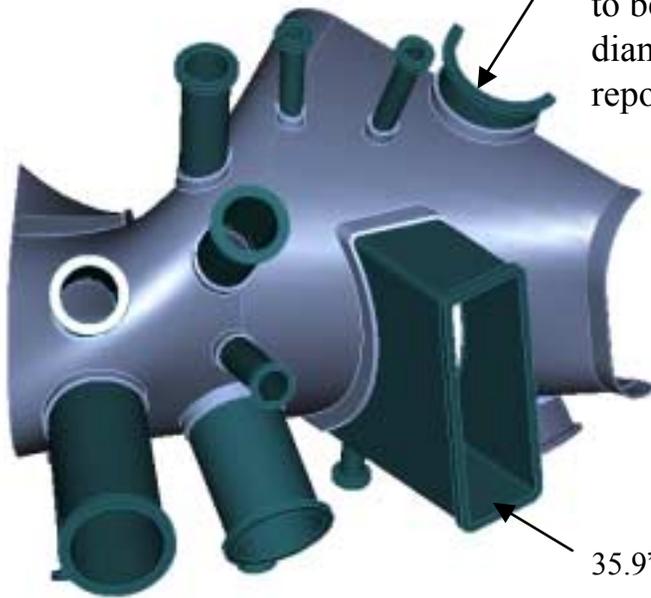


Half Period VV Sector



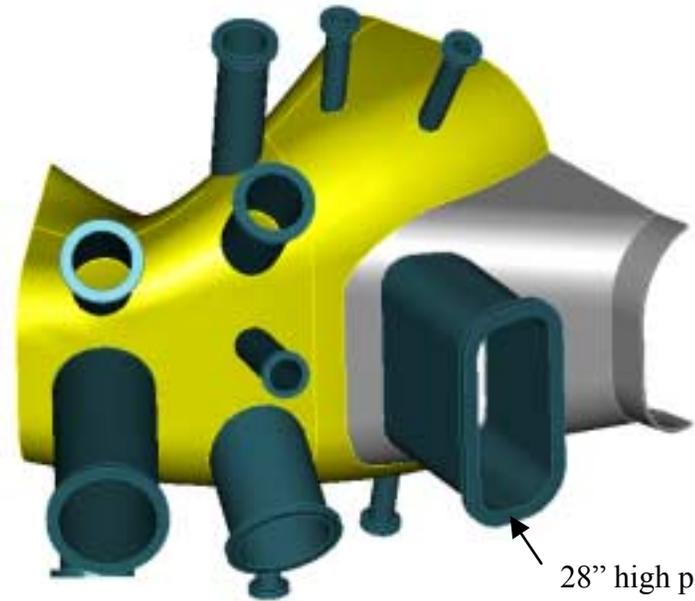


Have not shown this port. It would need to be a smaller diameter or repositioned.



35.9" high port

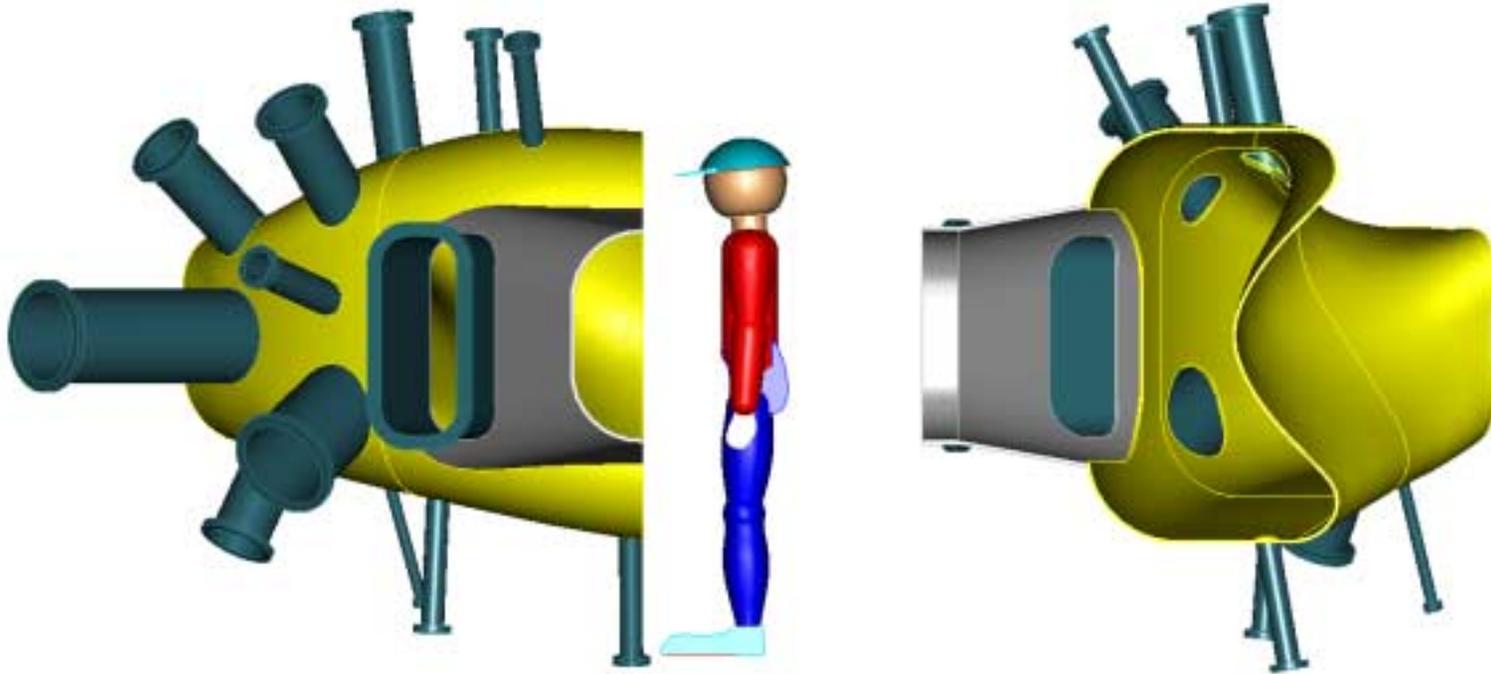
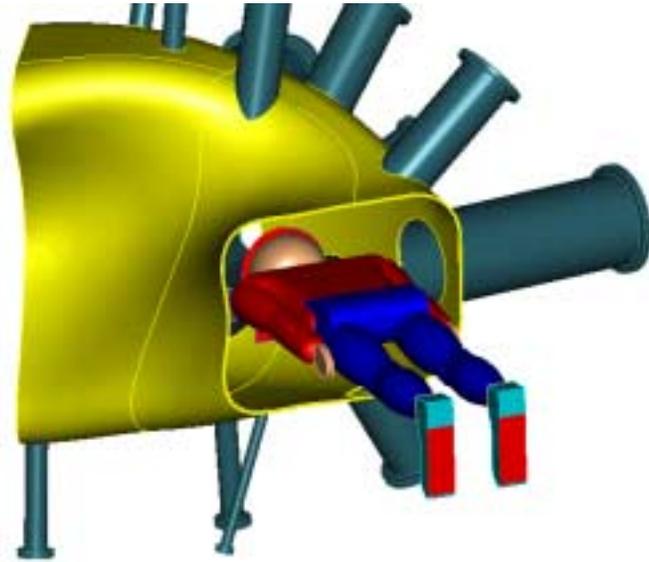
Baseline



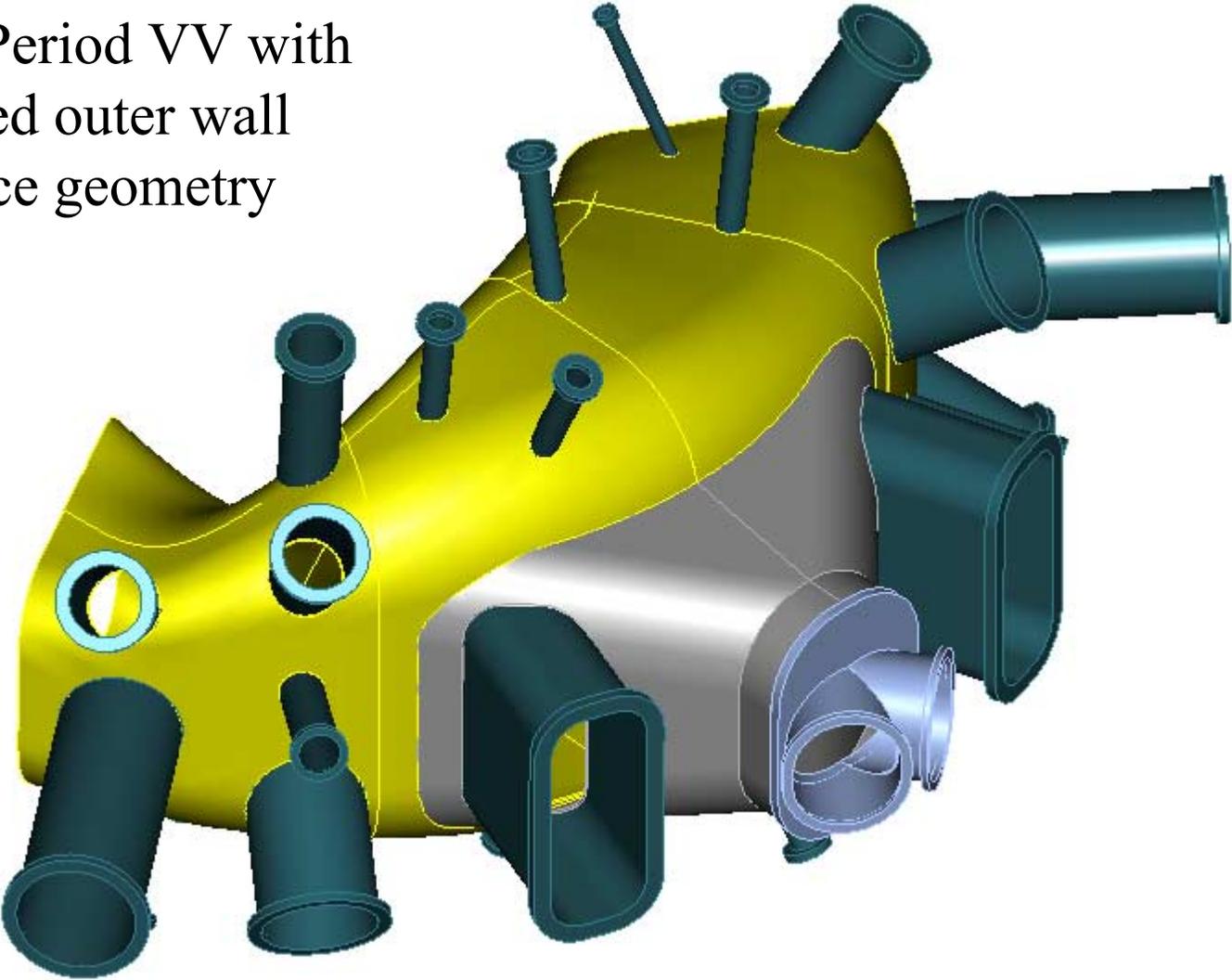
28" high port

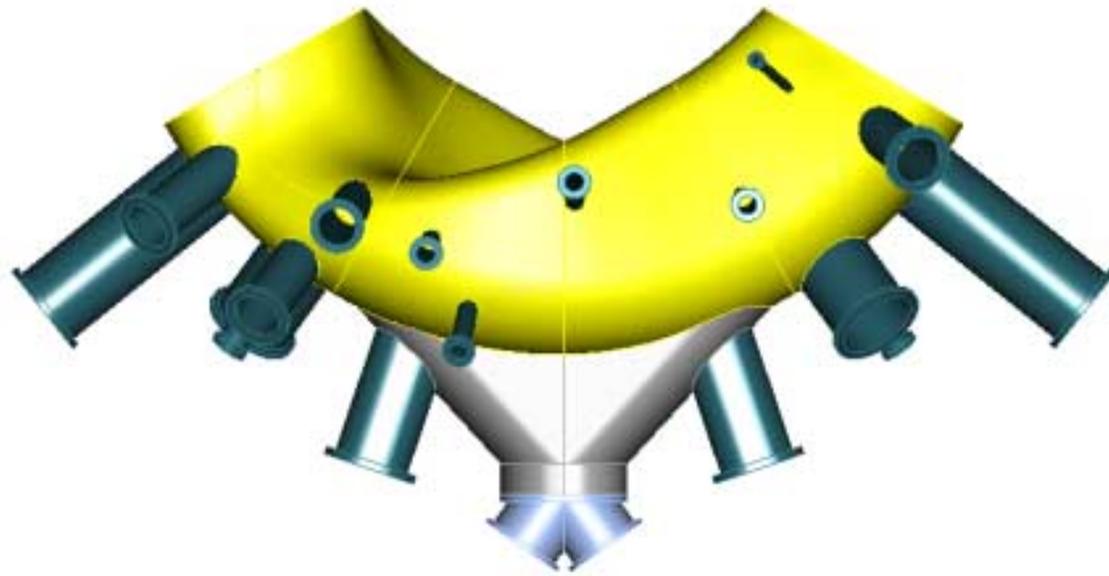
Alternate Shape VV

Limited Manned
Access

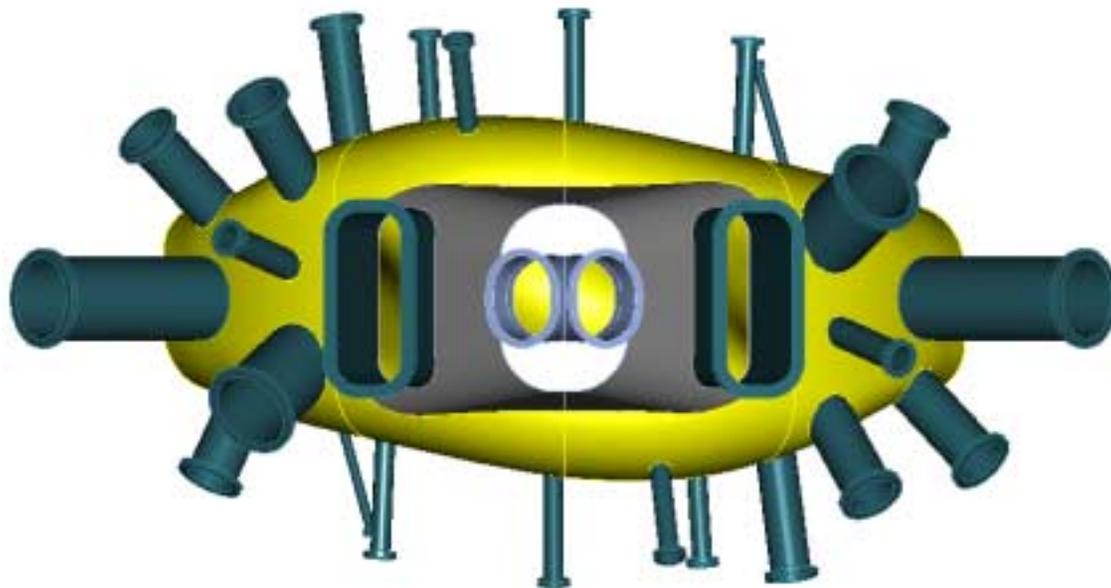


Full Period VV with revised outer wall surface geometry



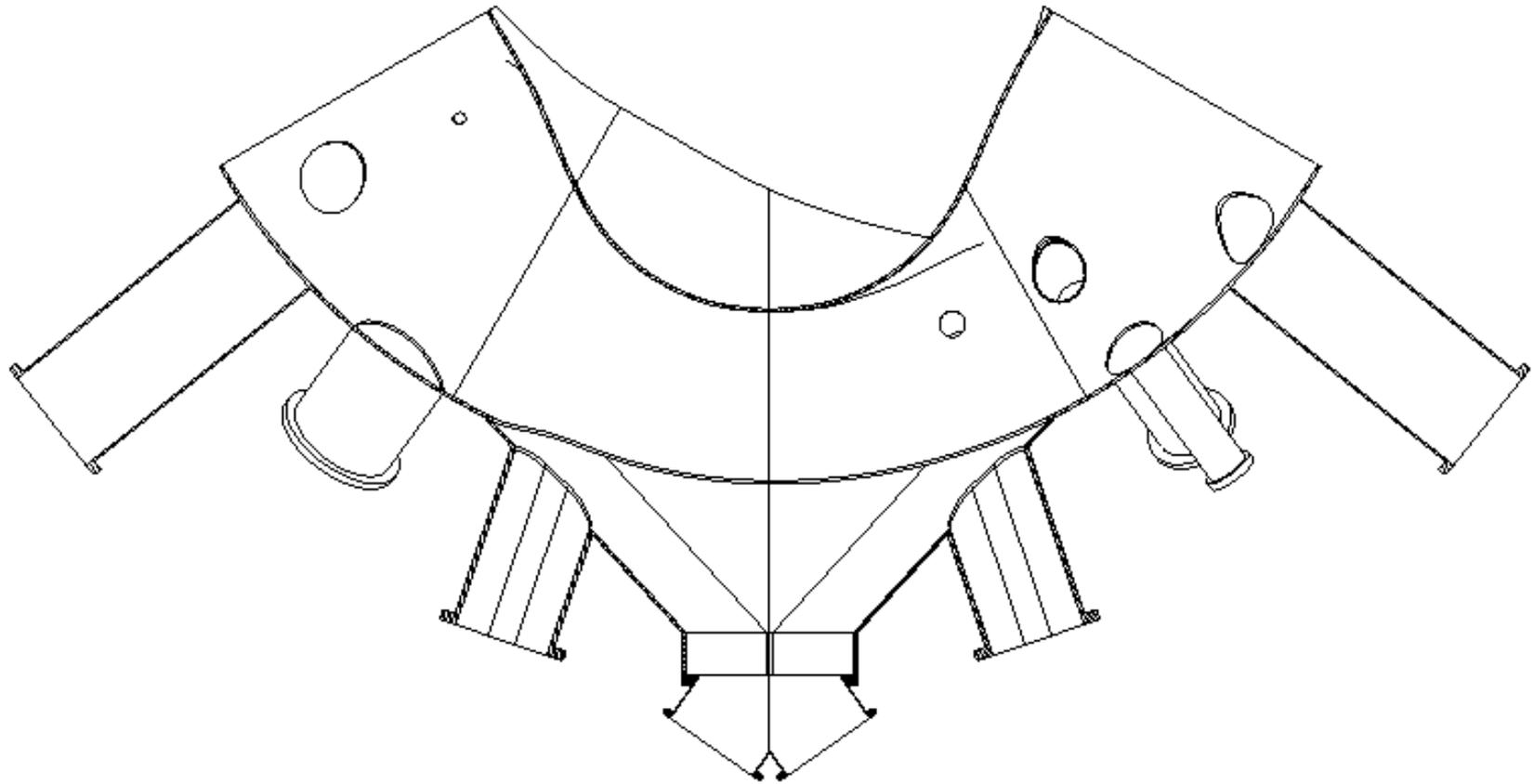


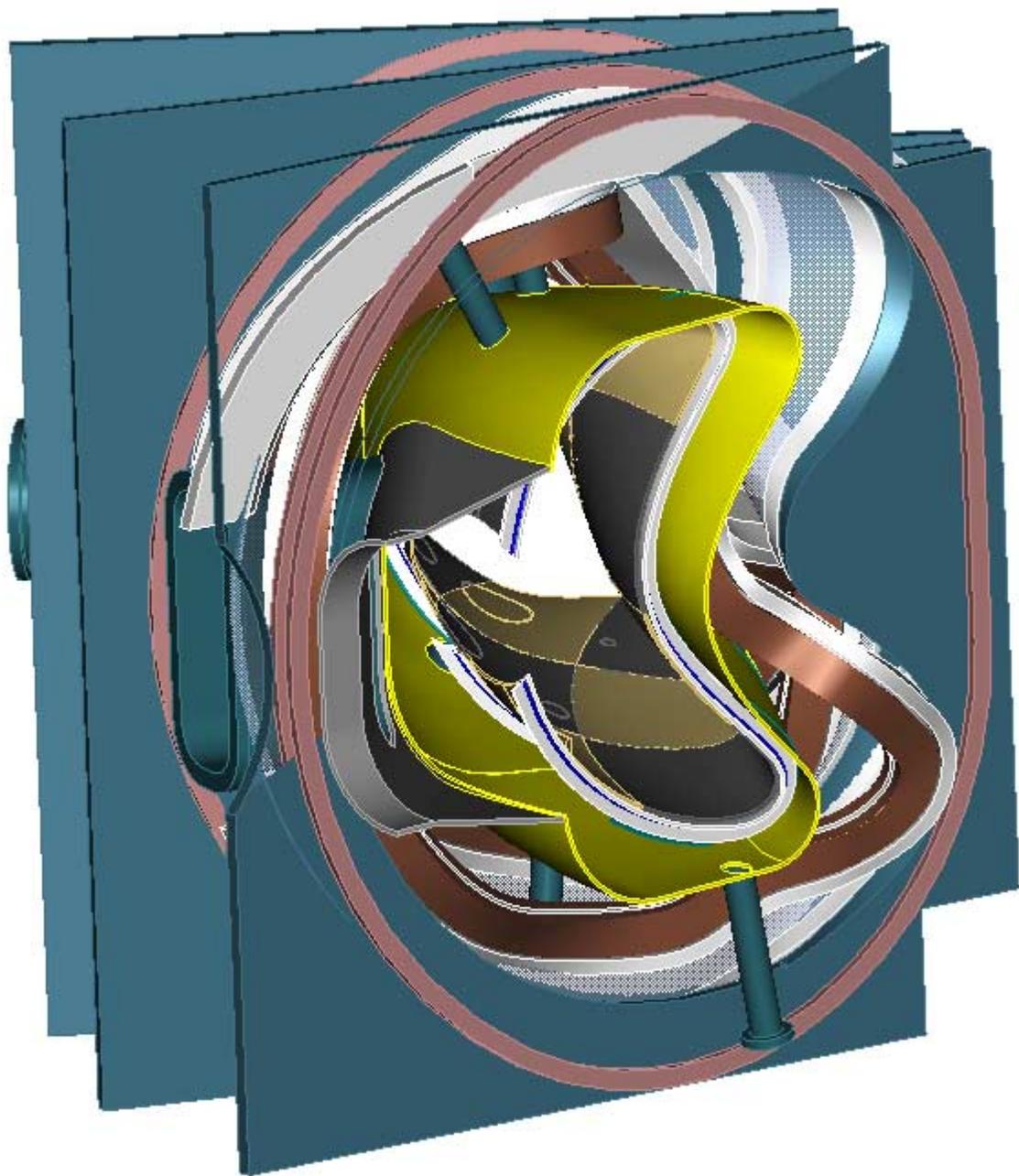
Top View

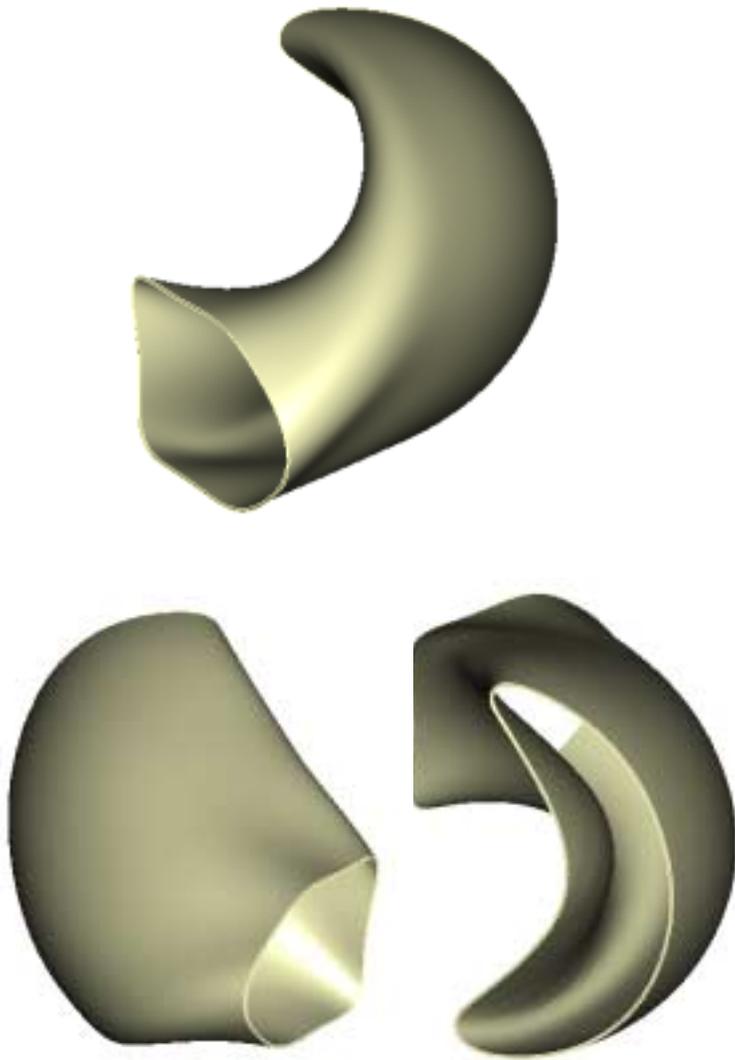


Front View

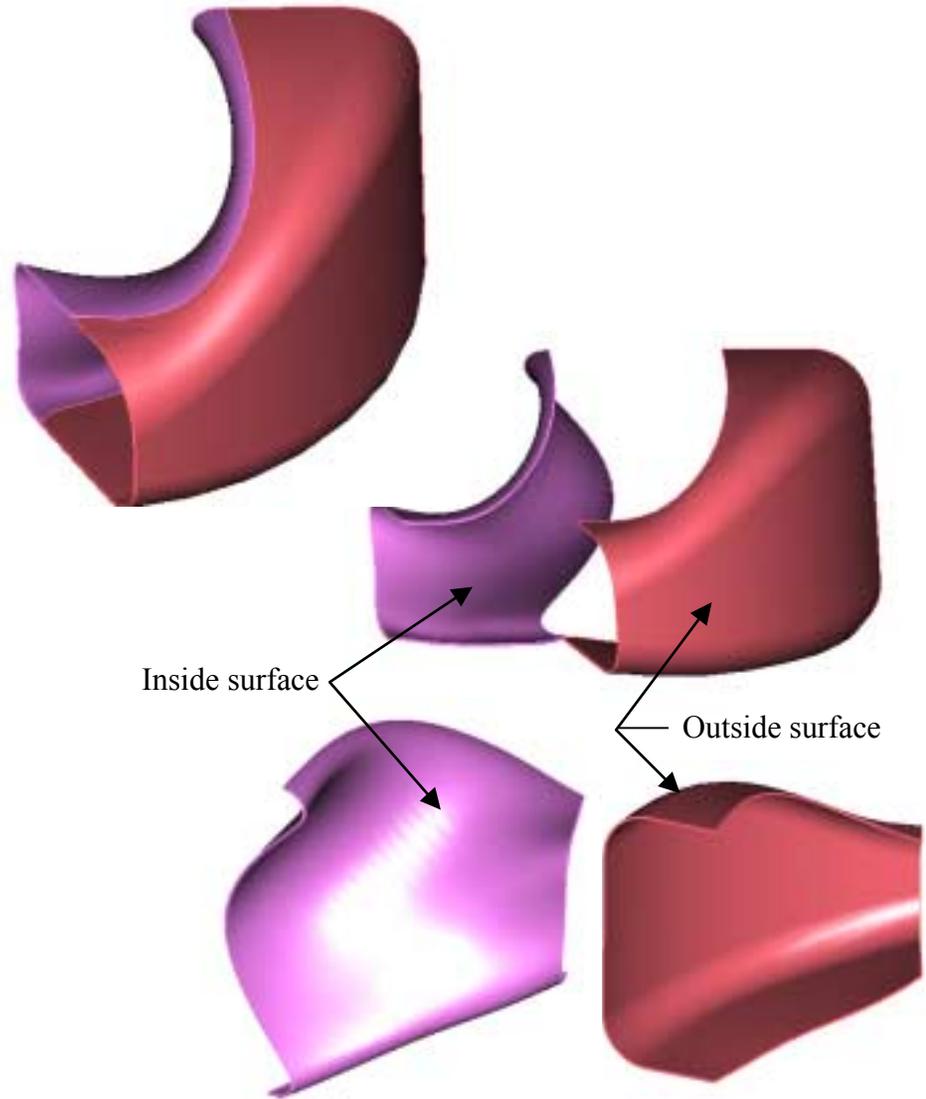
Section Cut – Plan View







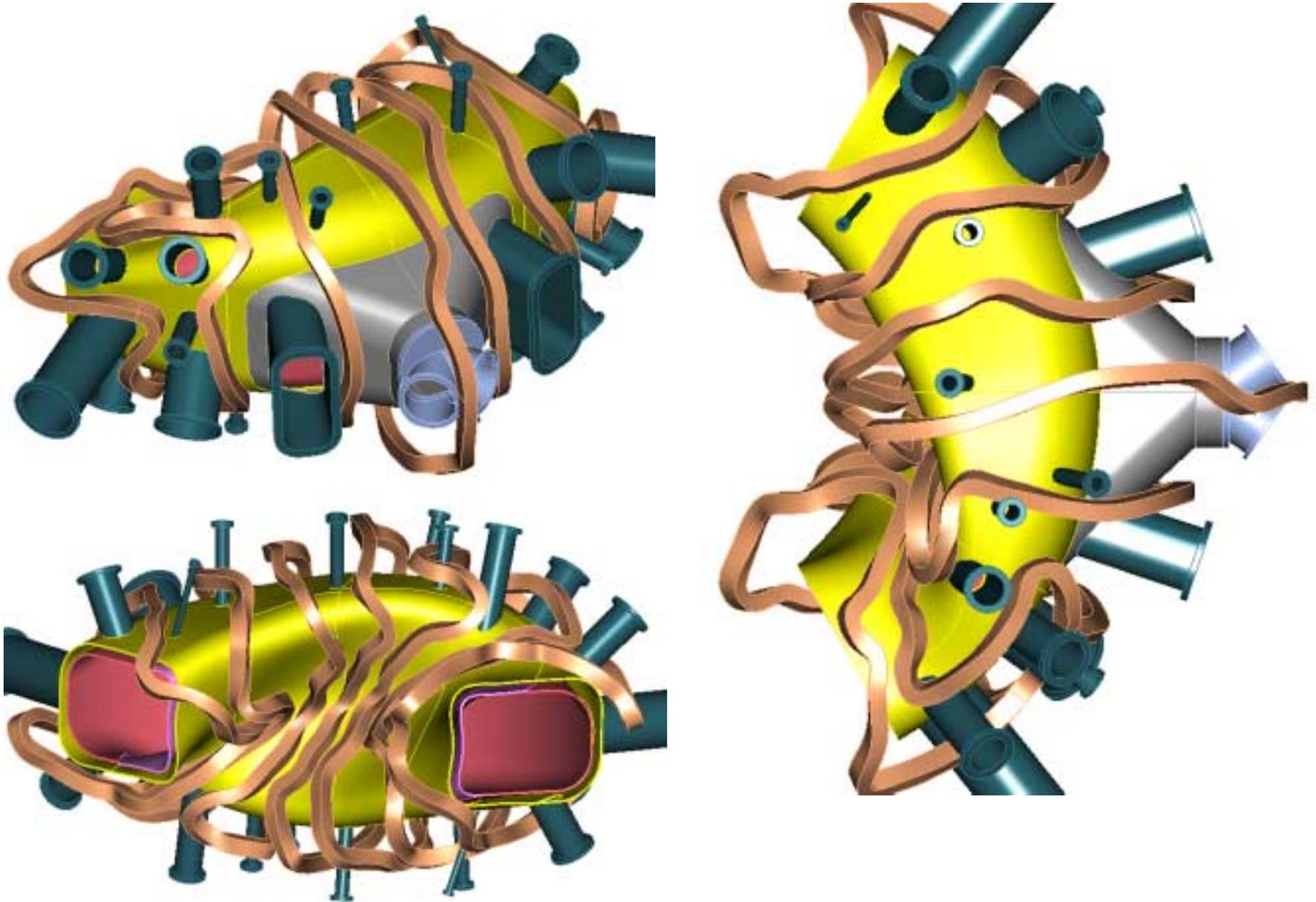
Baseline



Alternate Shape FW

Comparison of FW surface geometry for making tile sections

Figures shows an alternate shape VV with the new 21 modular coil set



Summary / Plans

- A technique has been developed to reshape the VV to maximize its interior space.
- A VV geometry will be developed that maximizes its internal space and conforms to a geometry that best meets explosive forming techniques.
- A second VV shape might be developed if it improves alternate forming operations.