Summary of NP02 BDE Installation Sequence

Cheng-Ju Lin
Lawrence Berkeley National Laboratory
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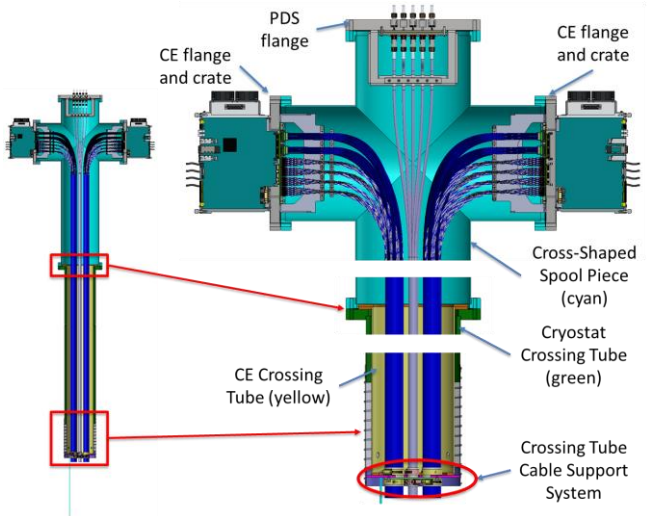
Step 1:

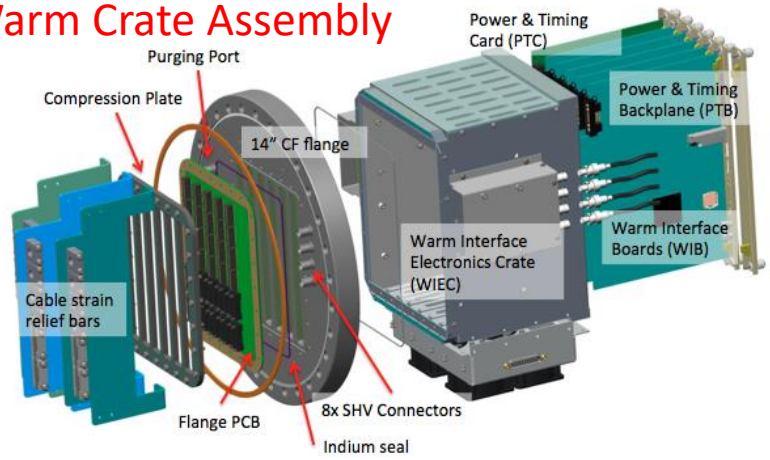
- Installation of power supplies in the DAQ racks (with help from Xavier's crew)
- Installation of penetration (x1) and Warm Interface Electronics Crates (x2)
- Preferred penetration flange is the one closer to the TCO (black circle). However, that penetration is used by SLOW Control
- At the moment, plan to use the penetration (yellow circle in the drawing)
- Need to coordinate with PDS on cabling and DAQ on integration

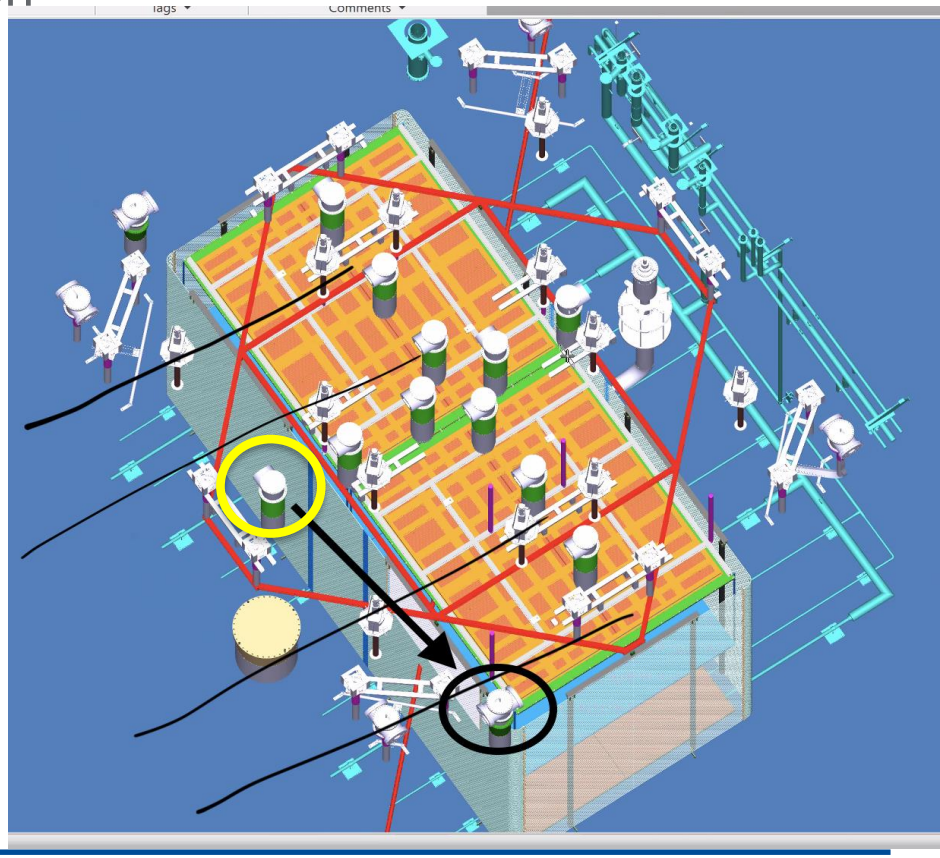
Cryostat Penetration

(design not finalized yet)



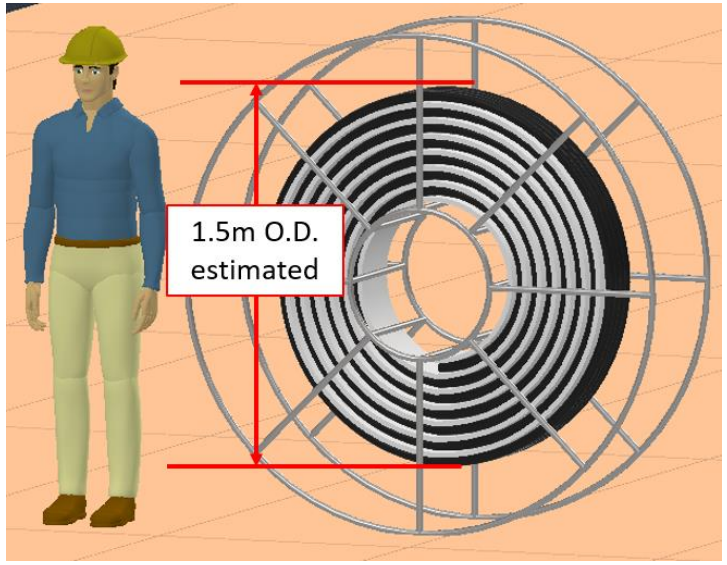
Warm Crate Assembly

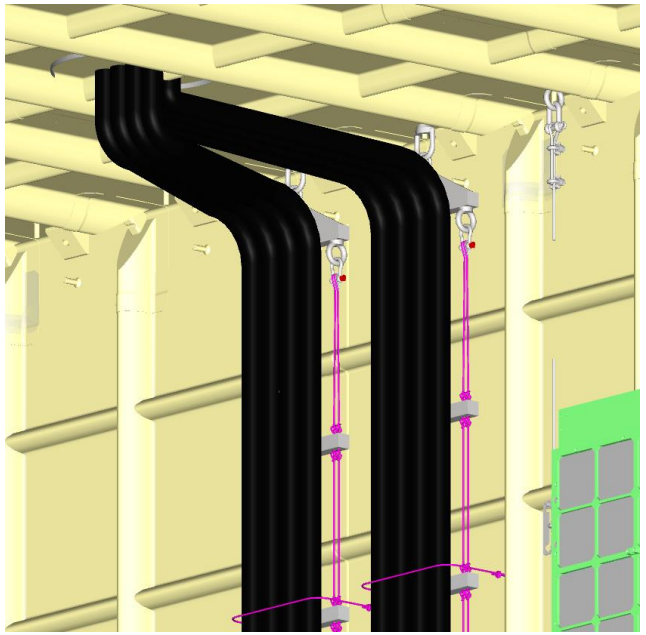


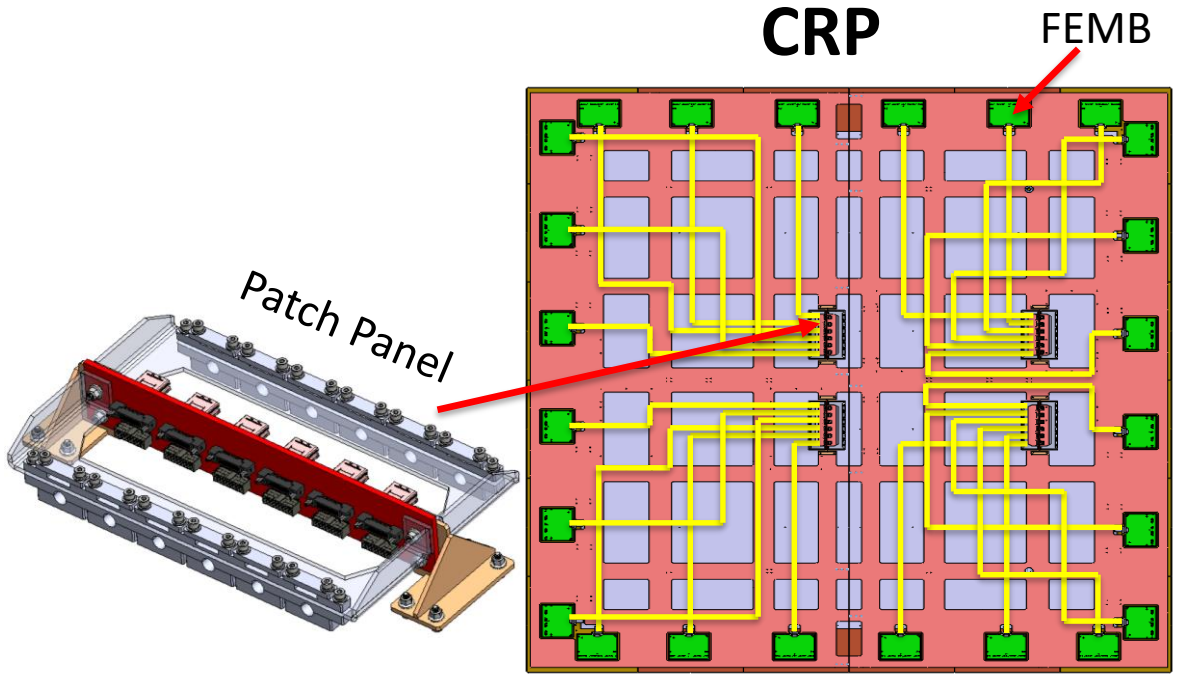
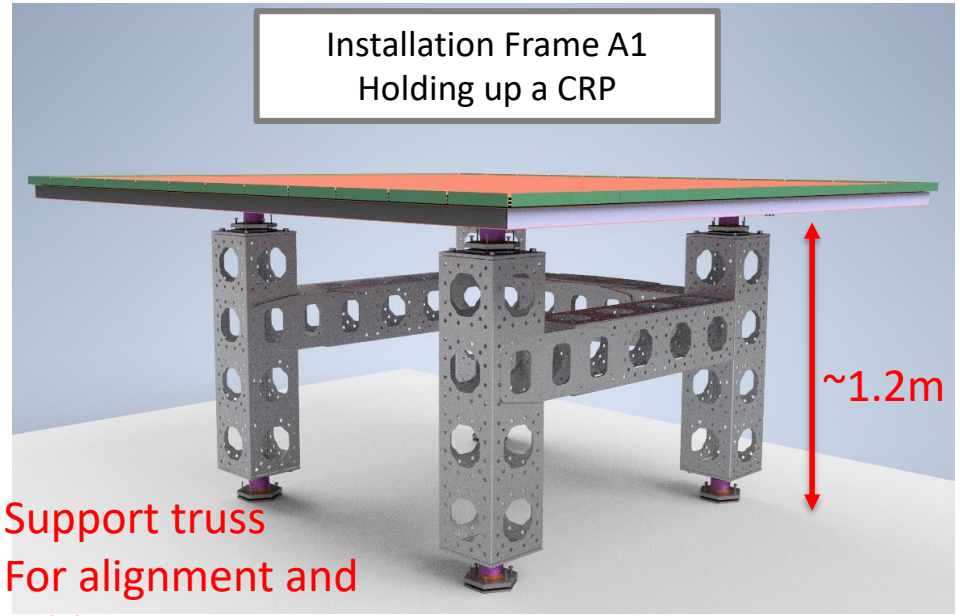


Step 2:

- Installation of 25m power and signal cables inside the cryostat along with the cable tray
- There will be 8 cable bundles (4 per CRP)
- Run the cables through the penetration and connect to the flange and the warm crates
- Test cable connection with FEMBs connected inside the cryostat
- After cable testing, temporarily store the excess cable on the floor of the cryostat along the wall
- Need to coordinate with I&I on this task





Step 3:

- When CRP#4 is positioned on the supporting truss inside the NP02 cryostat, connect 4 bundles of cables to the four patch panels on the CRP
- Verify full electrical connection from the CRP to the warm electronics
- When the CRP#4 is lowered on to the membrane floor (assuming there's no elevated platform), again verify full electrical connection from the CRP to the warm electronics
- Repeat the above steps for CRP#5