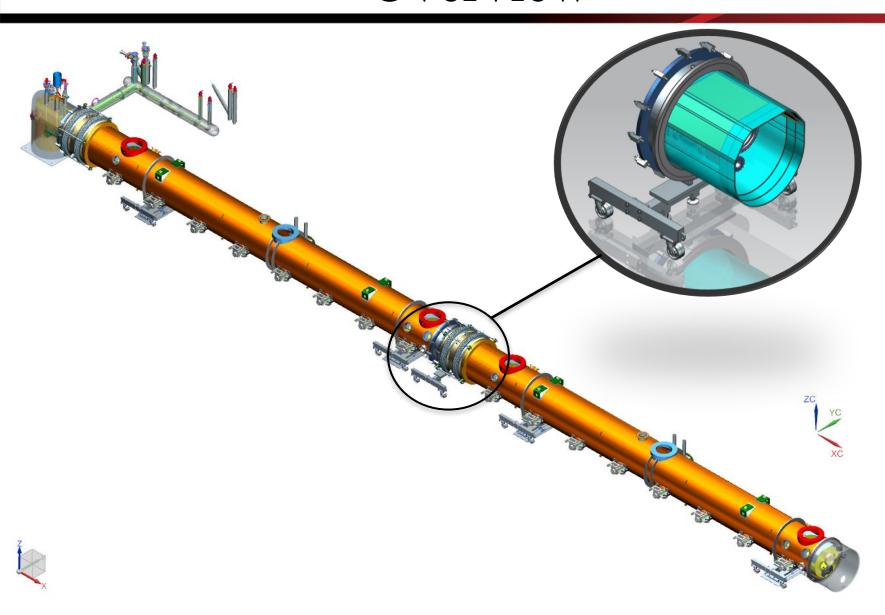


LERF Preliminary Review

Interconnect Region

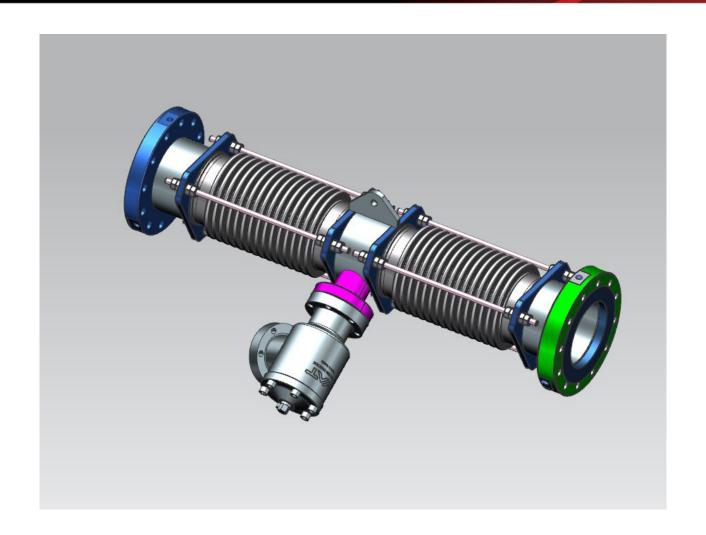
Keith Harding 11/13/2017

Overview



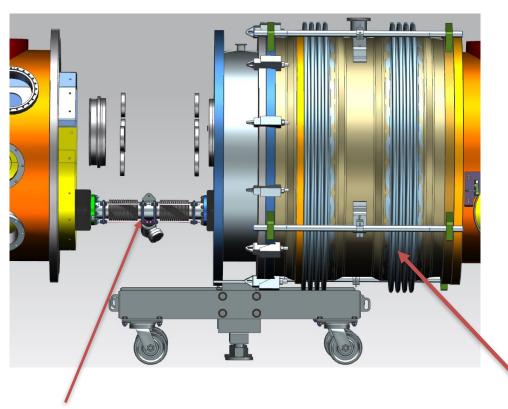


Beamline Bellows





Beamline Installation

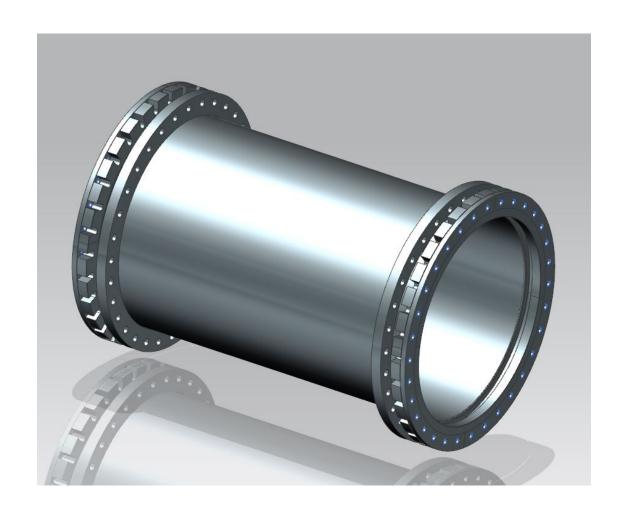


Install Beamline Bellows w/ Right Angle Valve in Clean Room Environment (Tent)

Insulating Vacuum Bellows And Spool are installed and slid into "open" position

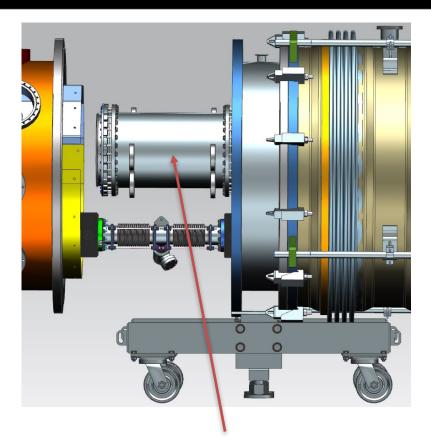


Gas Return Header Pipe

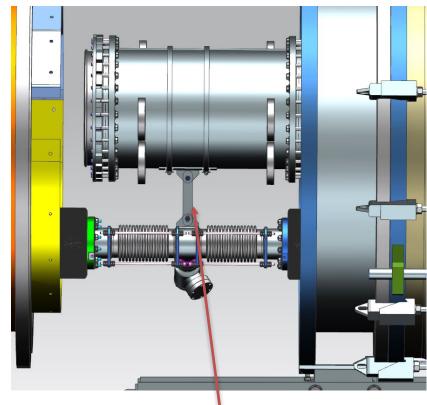




GRHP Installation



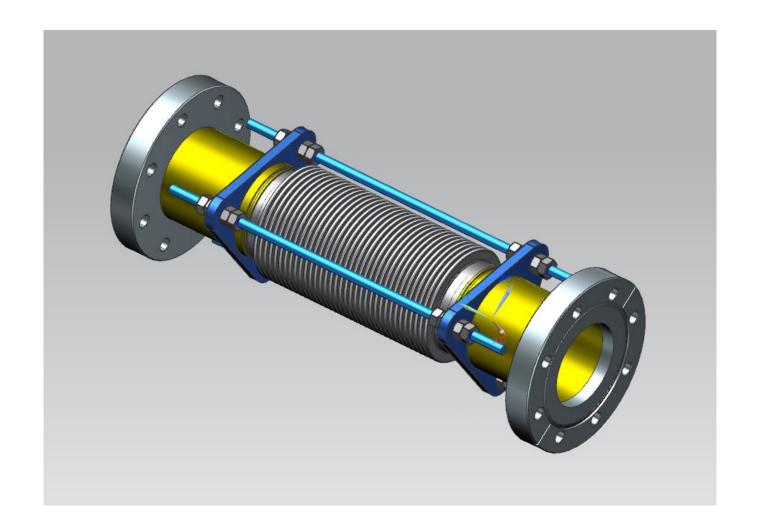
Install GRHP Utilizing same convention as currently used (Same Hardware as Currently used)



Install Beamline Support between GRHP and Beamline Bellows Spool. Use Two "Radiator" Clamps to secure to GRHP.

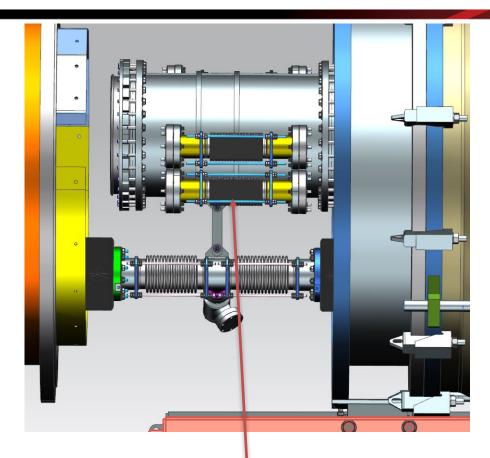


Cryogenic Interconnect Bellows





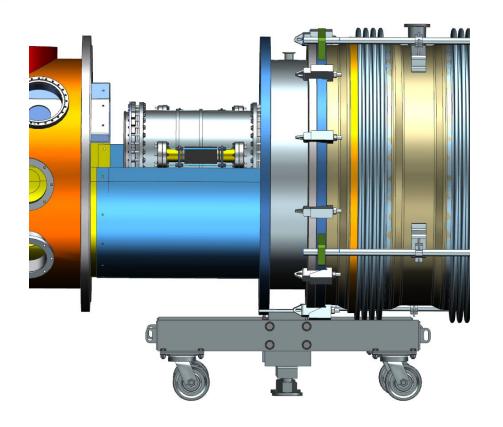
Cryogenic Interconnect Bellows Installation

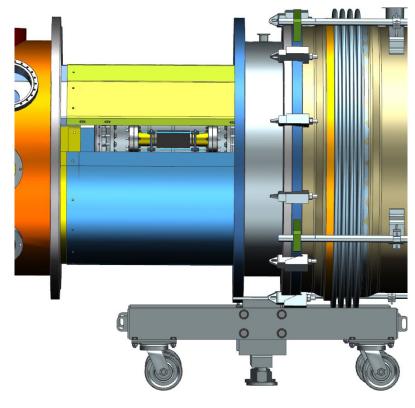


Install Bellows for Cryogenic lines A,C,D,E, and F using standard Hardware and assembly methods



Thermal Shield Installation

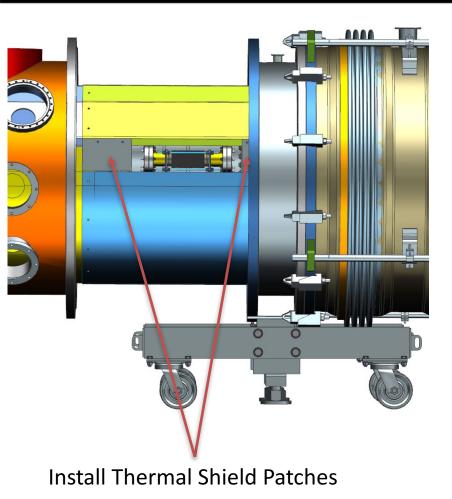


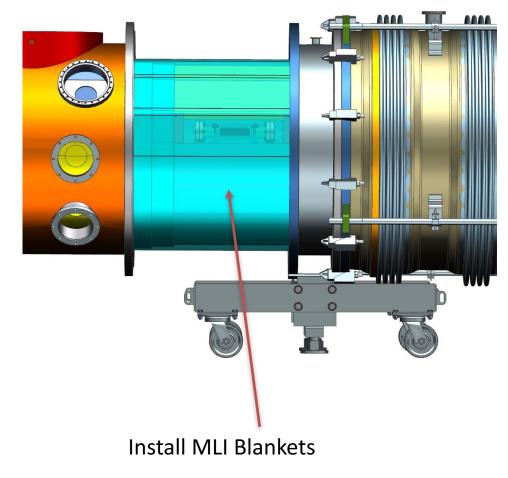


Install Lower Shield

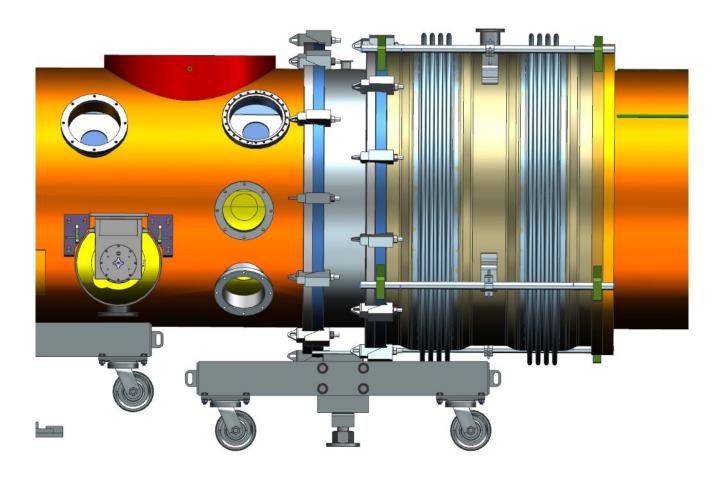
Install Upper Shield

Shield Patches and MLI





Final Assembly



Roll Insulating Bellows Assembly into Closed position and secure



Summary

- Design uses as many common parts and concepts as possible
- Utilizes processes and procedures that are familiar to Staff
- Simplified design reduces cost

