

Vacuum Chamber and Supports

1. I interaction with VakuuPraha using basic drawings. We made a deal for 19'310 EUR + tax for two vacuum chambers plus the compensation system, we provide flanges they provides tubes, bellows and labor
2. Ready to place order through CERN, which allows to save the VAT (20%). Because the amount is beyond 5'000 CHF, I must write a justification letter to avoid a call for tender. For all that I need to know a refurbished TEAM ACCOUNT NUMBER.
3. In any case we have started the procedure to shipping flanges to CERN, but we need signatures at SLAC for exporting goods.
4. Additional large flanges already available at CERN as leftover from TOTEM
5. Once all flanges regrouped at CERN, the whole batch can be shipped to VakuuPraha pending the final release of the order from the CERN purchase department.
6. The SLAC designer is in action but he need interactions with me and John to reach full speed.
7. Cleared the financial aspects, production can start in Czech Republic once a decent set of drawing is available
8. Next step for the designer is the modification of the supports to accommodate the enlarged diameter. Once those ready, I plan to launch the production through the CERN mechanical workshop to save the VAT and time since they have already a good fraction of valid drawing since the TOTEM job. Hopefully they can outsource the job to small companies in East-Europe where they are running large blanket contracts for the LHC

Thin Window

1. Brazing of the thin window is under way at the SLAC Mechanical Department. The changes in dimensions of the vacuum chamber has also affected the size of the pot. John is keeping that under control.
2. Short prototype boxes have been fabricated and welded, leaking checking today I think. Tried to get a picture yesterday, but they were wrapped in foil and the technician was out sick. Should be ready for thin window brazing by 11/20
3. Thin window brazing of prototypes will begin next week. Should have a prototype ready for QC ~1-2wks later
4. production boxes (new longer length +53mm for bigger aperture) are now being EDM which is a slow process. MFD originally promised these first week of January, but is working to finish them before the winter shutdown on 12/19
5. Thin window brazing of production boxes will begin first week in January. Expect 1wk turnaround
6. Flanges are being machined and are ~50% done. Will be ready to join to production boxes and vacuum check assembly second week in January
7. Complete pot assemblies should be ready to ship third week in January

Outlook

Changes in diameters called for a new design of the Roman Pot for UA9

SLAC deliverable flipped from reopen a production line with available drawing to make an almost brand new Roman pot system

Trying our best at SLAC to absorb the changes in scopes

- a. put one designer full time
- b. increased the time effort for two mechanical engineer

We still hope to deliver middle February