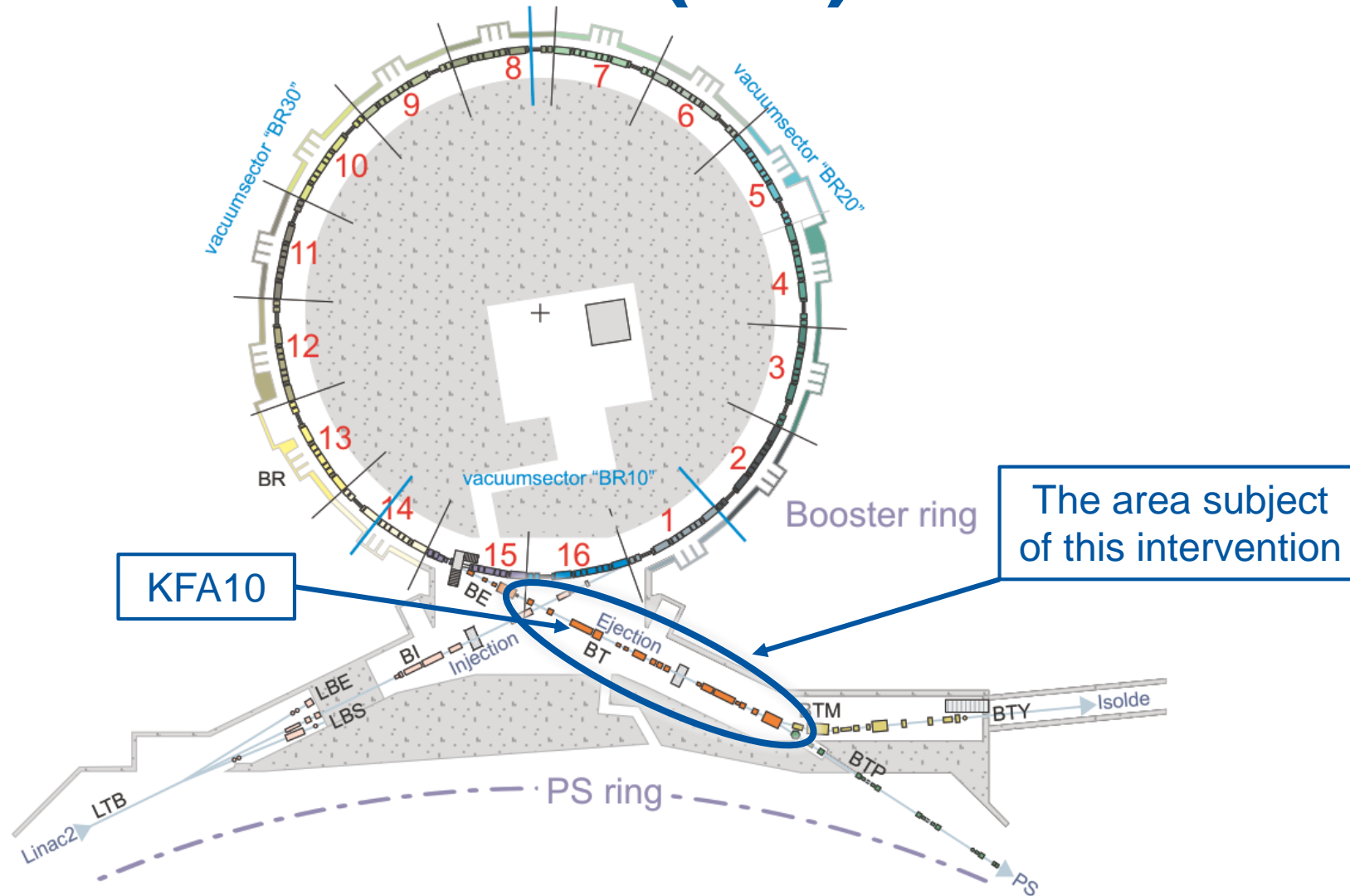


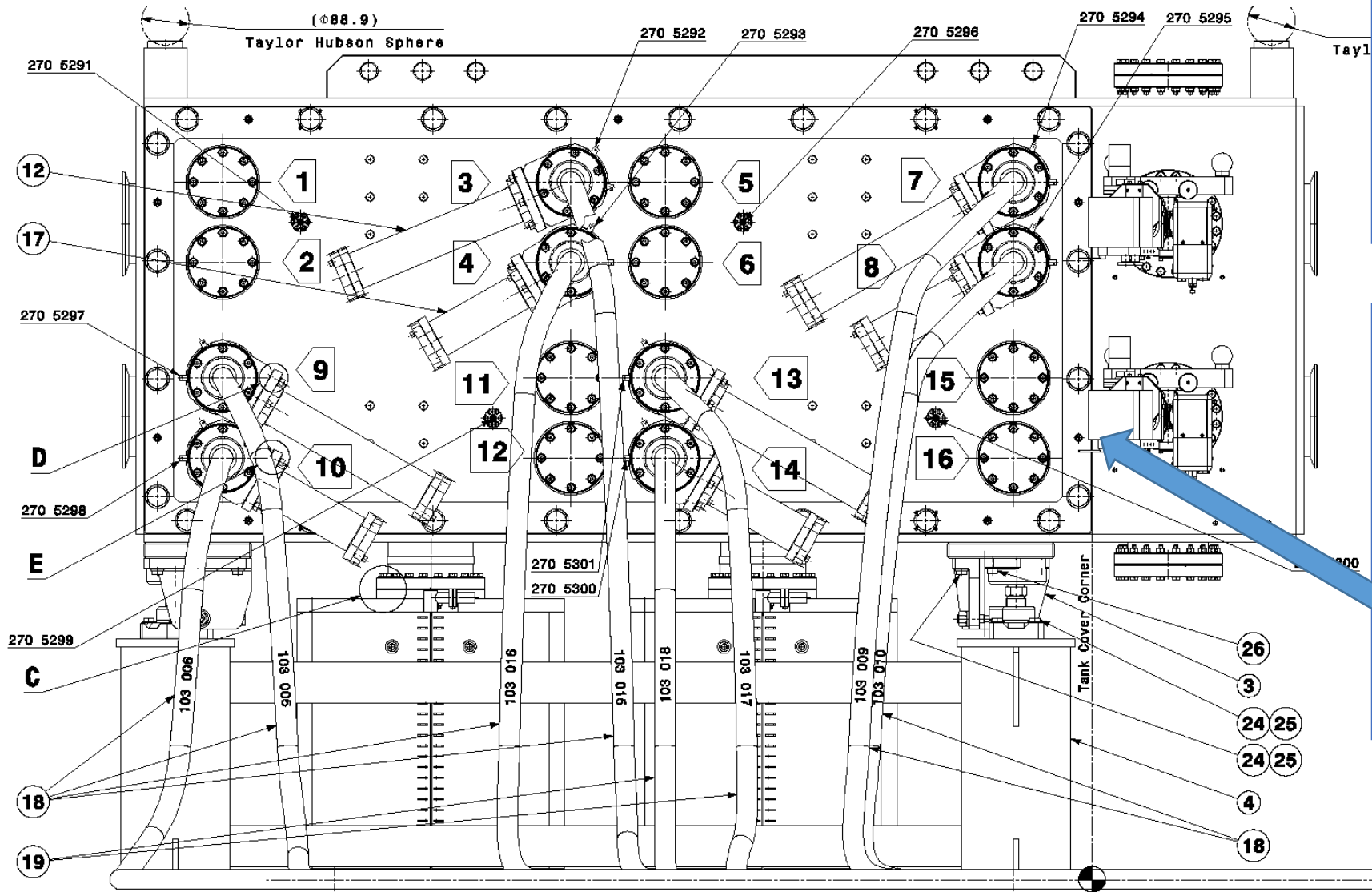
KFA10 Vacuum tank

Status vacuum leak

Beam Transfer (BT) line



After repair still leaking & ~~RGA~~



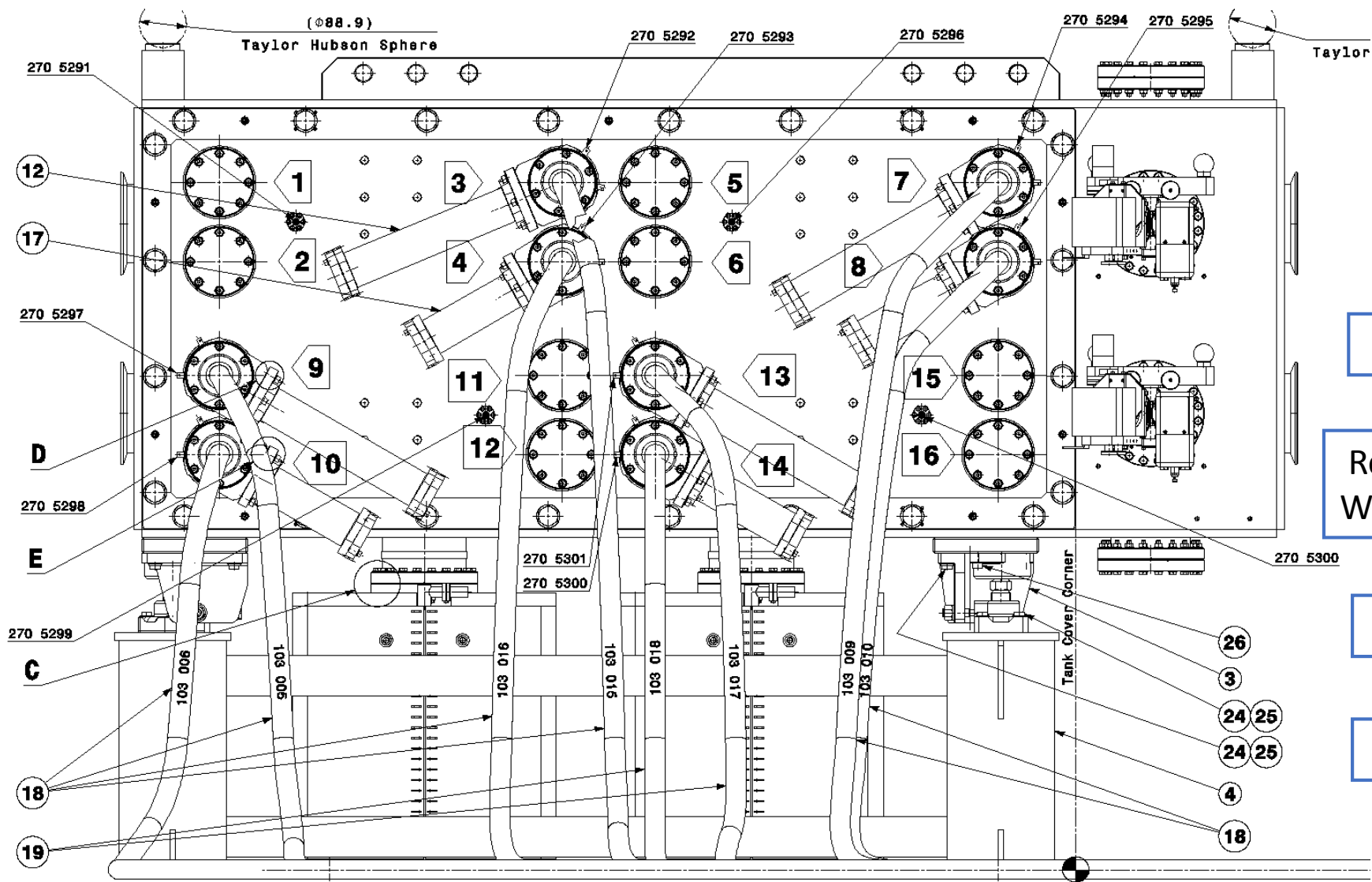
From Nicolas Thaus, Leaks on the flanges:

- 2 : 2×10^{-8} mbar.l/s
- 3 : 7×10^{-10} mbar.l/s
- 5 : 4×10^{-8} mbar.l/s
- 8 : 6×10^{-10} mbar.l/s
- 11 : 5×10^{-9} mbar.l/s
- 12 : 2×10^{-9} mbar.l/s

Open Questions:

- Leaks due to tank, cover, seal, or combination?
- What is the best method of seal preparation?, remove oxide or just clean
- Is ~ 220 mm bolt spacing to large (~ 80 mm theory)
- ..

Plan of action 11/01/2019



Dismantle

Metrology ?
(OK MME)

Add 4 lifting holes
cover? (OK MME)

Add addition
cover holes ?
(4wks MME)

Clean

Re-Assemble
With magnets

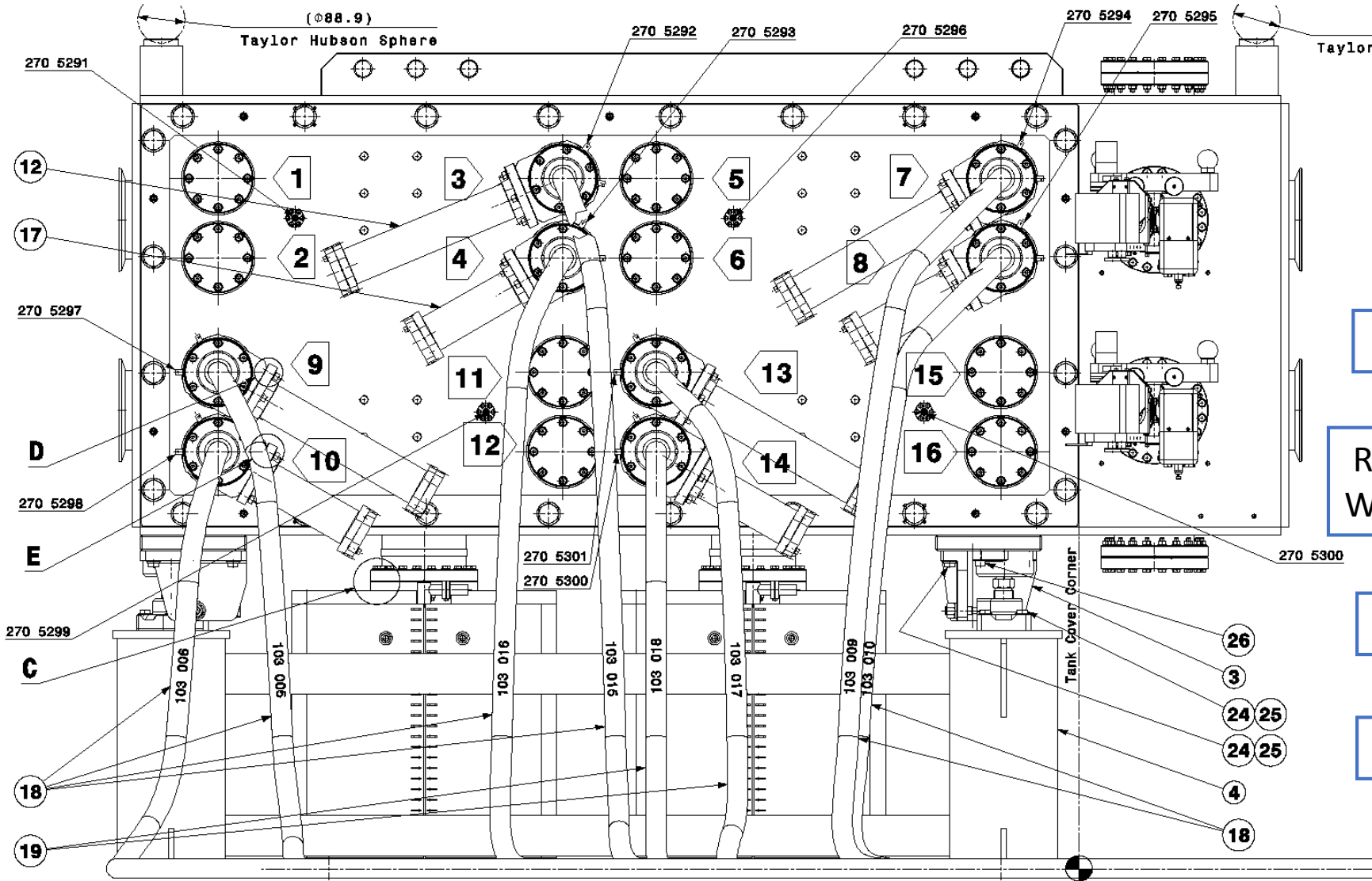
Vacuum

Test

- New $\phi 100$ seals ?,
- 1st test with rubber seal ?,
- New MME door seal (4 wks) ?,
- How to prepare the seal?,
- Close leaks with varnish?,
-?

Plan of action

- Inspection showed machining marks →
- Fixation of magnets tested on the doors
- Circular seals have been re-polished



Dismantle & Inspection

Metrology (19/01)

Add 4 lifting holes cover? (OK MME)

Add addition cover holes? (4wks MME)

Re-polish seal surfaces

Clean

Re-Assemble With magnets

Vacuum

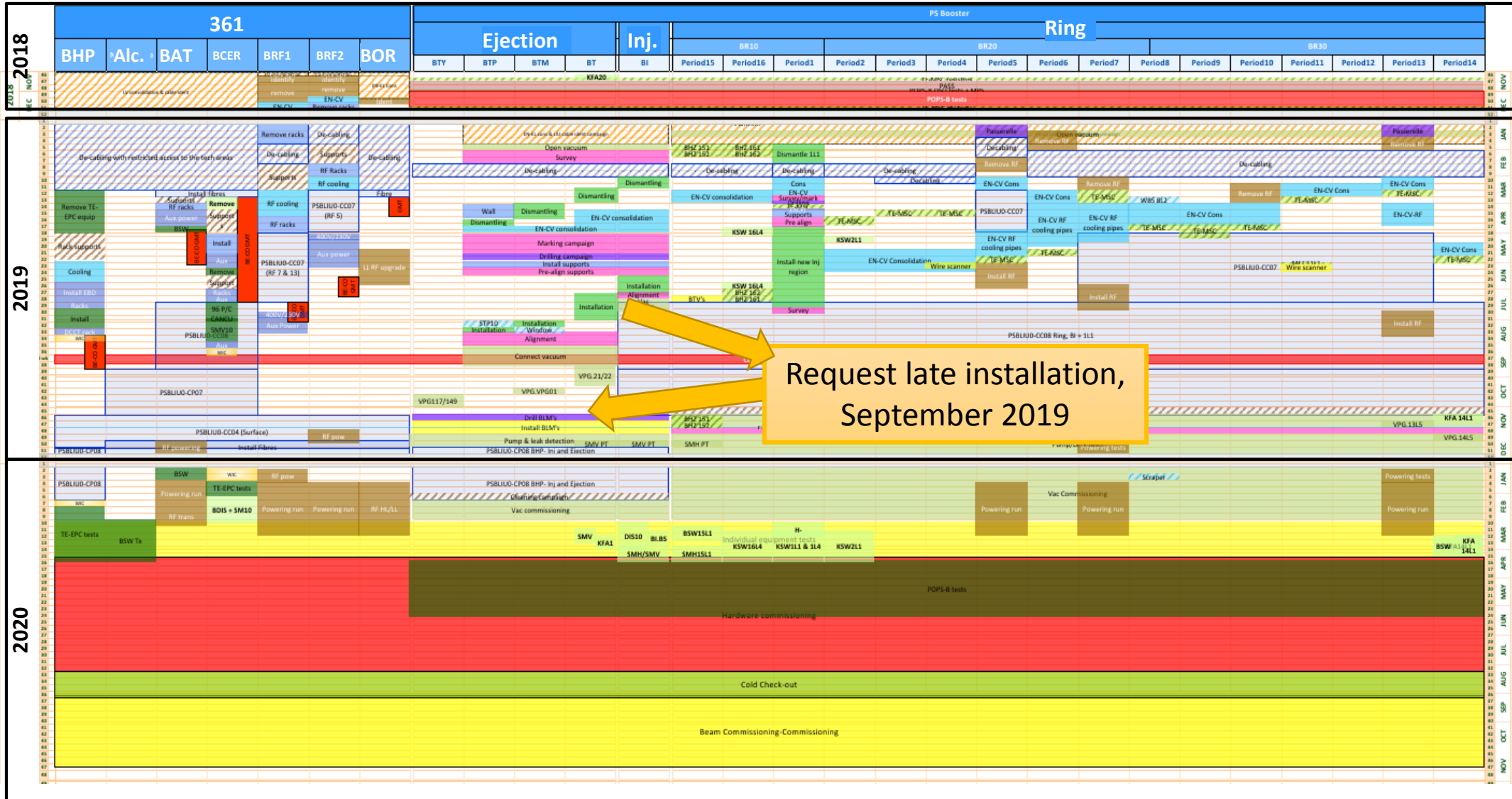
Test

- New $\phi 100$ seals, Should arrive in week 10

- 1st test with rubber seal?
- New MME door seal (4 wks)?
- How to prepare the seal?
- Close leaks with varnish?



PSB Linear Schedule *Baseline* <https://edms.cern.ch/document/1810496/2.0>



Request late installation,
September 2019

POPS-B Tests

Dismantling & Reinstallation Phase

Commissioning Phase

Spare slides

KFA45 seal from MME

