



ESS spoke CM02 (2nd run) /CM05
weekly meeting
20210408
Han Li



- CM02 dismounting
- CM05 installation
- Test plan

CM02 dismounting



- Dismount with valve-box, waveguide ✓
- Move out of the bunker ✓
- Fill the insulation vacuum with dry nitrogen ✓
- Dismount the doorknob
- Electric continuity check
- Outgoing test
- Mount shock sensors
- Packing



Hardware:

- Doorknob ✓
- Sensors and gauges: arc detector, electron pickup ✓
- Waveguide bellows mounting ✓
- Safety valve mounting ✓
- Pressure gauge mounting ✓
- Turbo-pump mounting for insulation vacuum ✓
- View ports for alignment ✓
- Cryogenic jumper
- Beam vacuum pumping cart connection
- FPC water cooling pipe connection
- Cabling: arc, e-pickup, lemo connector...
- CM alignment checking with insulation vacuum
- Close bunker





Preliminary time plan



Test item	time	comment
CM04 Warm up (RGA connect) CM02 arrival	15 th -21 th Feb.	
CM02 installation CM04 Disconnect, packing, shipment	1 st - 12 th Mar.	
CM02 FPC warm conditioning	15 th -17 th Mar.	CM02
CM alignment measurement	16 th Mar.	CM02
Heater repair	18 th	
CM cooldown to 4 K	19 th Mar.	
FPC cold conditioning	22 th Mar.	Simultaneously
CM cooldown to 2 K	24 rd Mar.	
CTS test	24 th Mar.	CTS measurement
alignment at cold	25 th Mar.	
Cavity conditioning (on resonance) Heat load/Q measurement	25 th -26 th Mar.	Open loop
Warm up	27 th -31 st Mar	
alignment at warm	1 st Apr.	
Disconnect, packing, shipment CM05 installation	2 nd -9 th Apr.	
CM05 FPC warm conditioning	12 th – 14 th Apr.	