

Volume Survey for RE3/1

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4 methods to check the Volume “Z”

- Integration office official drawings
 - Survey using laser scanner and laser tracker
 - Manual measurement
 - IR sensors
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- 4 Periods possibly available, 2 used , 19 Dec 2016 and 10 Jan 2017

RE3/1

OI office drawing

- Basic parameters

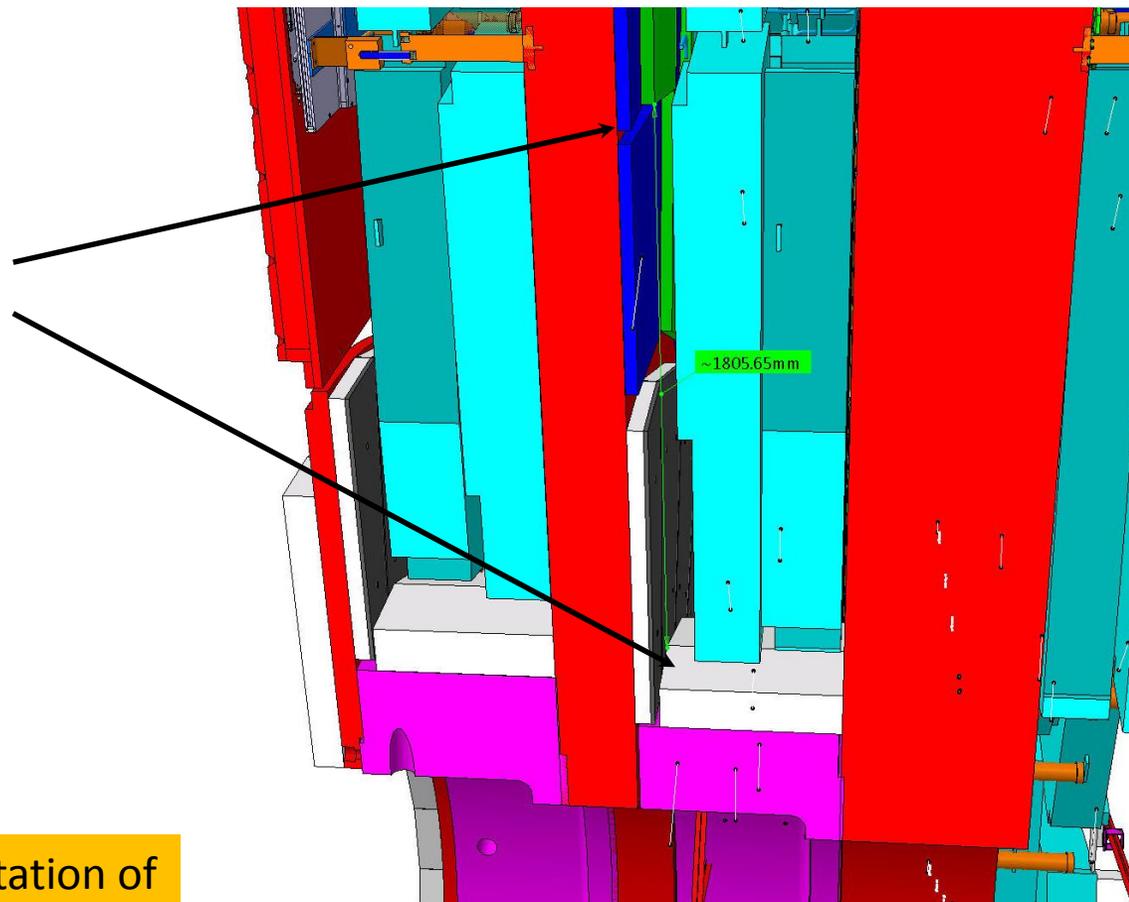
R Outer = 3302

R Inner = 1526

Delta = 1776

This area has to be studied and an envelope produced and agreed with Integration

Simple presentation of the area with errors



Laser Scanner, first time on a scissor lift

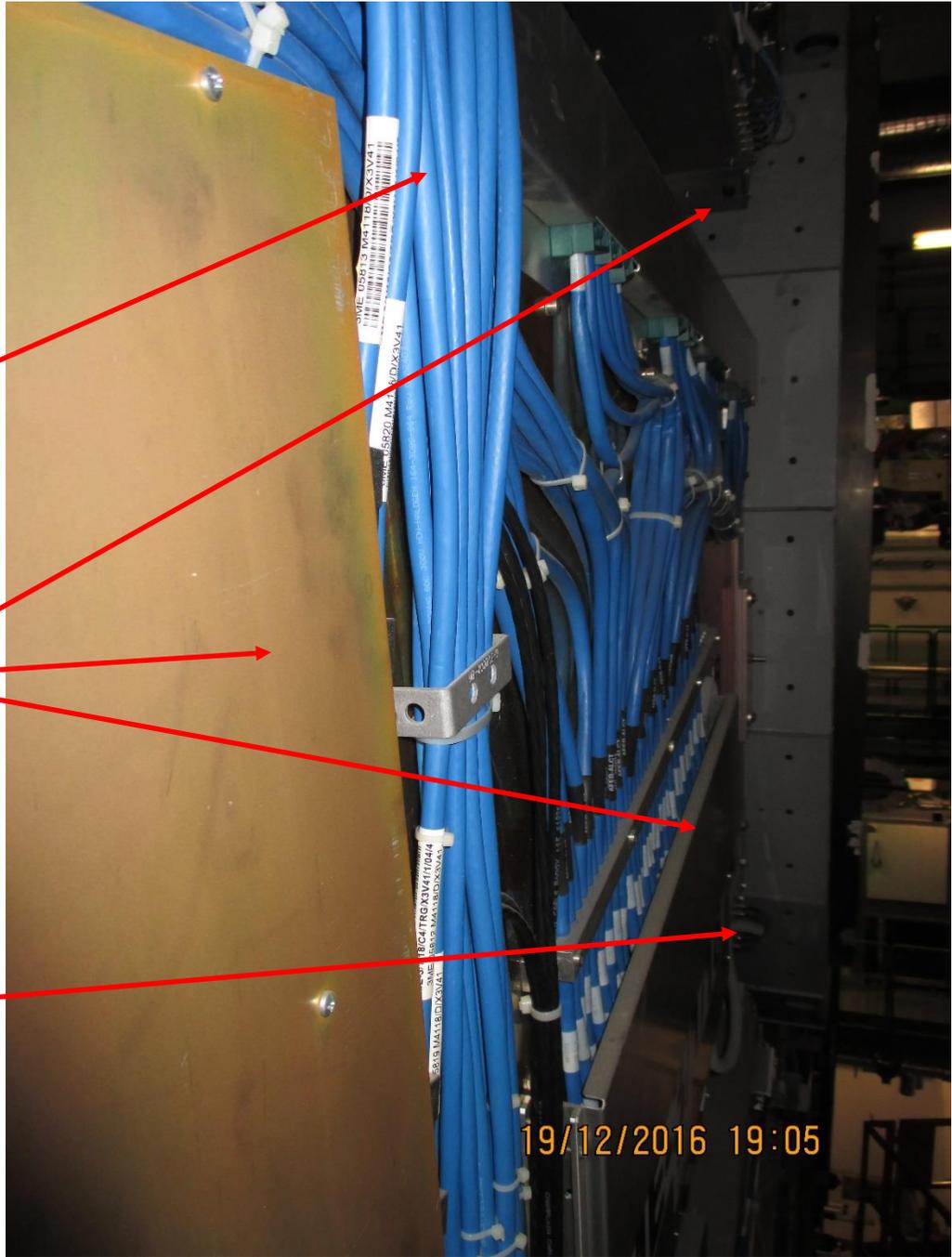


Results to come

CSCs are not flat.
complicate
understanding

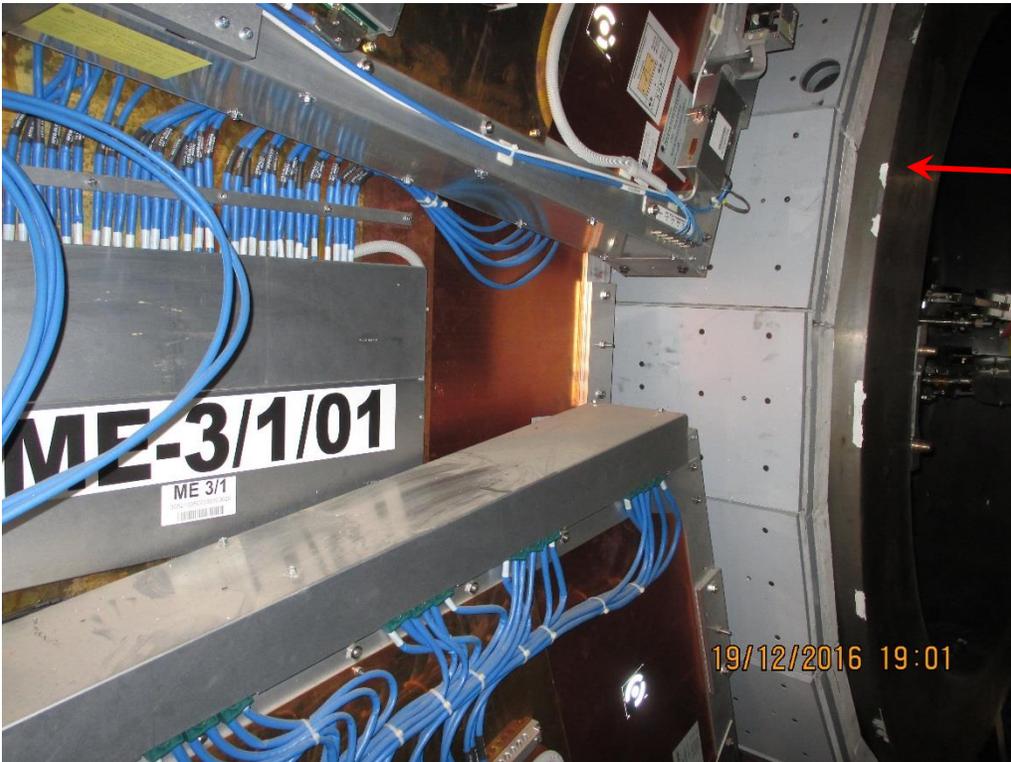
Cables over edge of
chamber cover

Front End covers at different
heights



Manual measurement

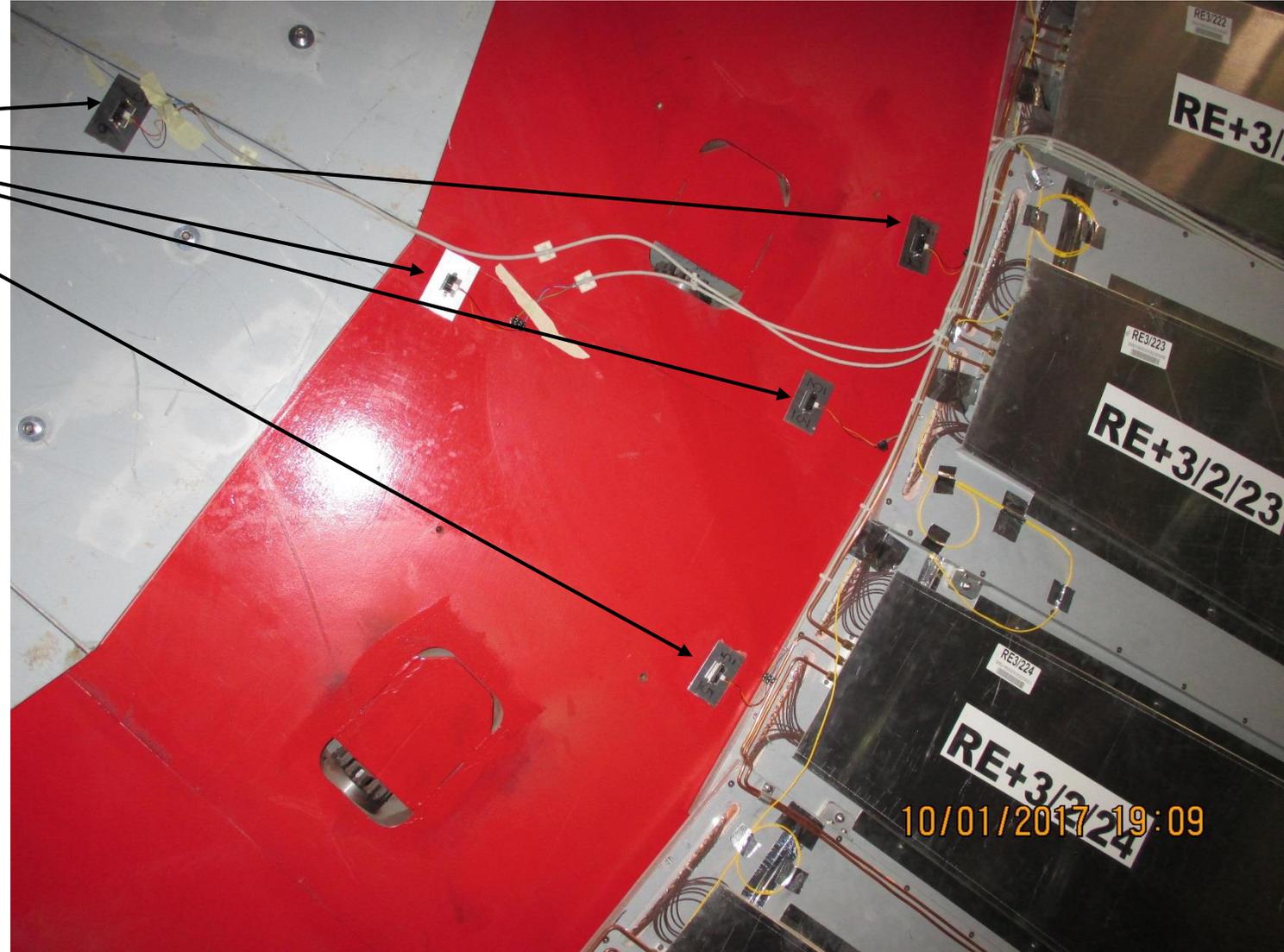
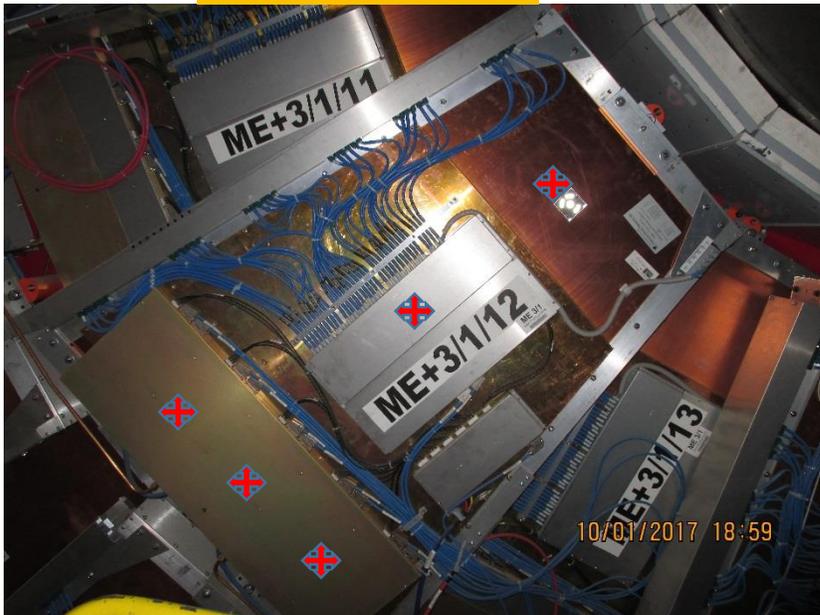
Radiation dose is monitored.
Not a "Controlled Zone"



IR sensors Jan 2017

IR sensors with individual shielded cable

Target areas 



Conclusion

- Will be getting feed back from survey team soon.
- Manual measurements will allow Elena to make accurate model of CSC and interface volume
- IR sensors installed. To be read out asap. Although the discs are not locked we should obtain an understanding of the CSC topology.
- Alignment sensors volume to be modelled.
- IR sensor will be checked for operation in “B” field, to be used in end EYETS if confirmed/calibrated and modified readout.
- Dose is kept to a minimum , ALARA policy, think before you go.