# Meeting with ISII-Tech at CryoDifussion in Léry, 26 Oct. 2016

## Disconnecting the cryostat for HV tests

1. Set the disconnect mode
   1. disable the alarms for relevant inputs (depending on the insert)
   2. freeze the controls
2. Re-enable the alarms
3. Resume normal operation

## Handling several inserts

* Configure the alarm masks for different inserts in WinCC
* Make the number of inserts easily extendible in the PLC program
* Make possible to change inserts both in the cold mode and in warm mode
* Make for each insert the mapping between the function of the sensor used in sequences/interlocks and a physical sensor
* Interlocks on the current lines to the magnet:
  + Temperature (too high)
  + Voltage drop (~few hundreds mV) (too high)
  + Digital output to the power supply ext. interlock
* One extra cernox 16 channel module is needed. In total we need 80 channels. Maybe the new CERNOX input module can be used instead (can handle 40 inputs)

## Communication between HNOSS and vertical

* Check if the interlock signal from Linde system is available. In HNOSS it comes on I7.0 (Trans\_ok\_liquid)
  + The interlock will be wired from Linde system from CC relay 258K7 contacts 21 and 24 (contact closed when LHe level in the dewar is ok). The is no terminal block spare for this cable but there is some place close to the relay to put a terminal block.
* The valves FV554 –FV556 should be controlled from vertical cryostat
* Only one system can be in the 2 K mode

## Time schedule

Mid Jan 17 - starting the system development, procurement