Tests at SX5

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Pre-installation tests

- **HV-test**:

  Bring up HV to nominal value to check for broken wires during transportation.

  The test is done without gas flow.

  Use old Sys127 with HV spiders and jumper boxes easier to handle than SY1527 (3 SHV cables…)

  Hardware required: CAEN Sy127, 3HV suppliess, PC, CAEN interface board (not a pool item)
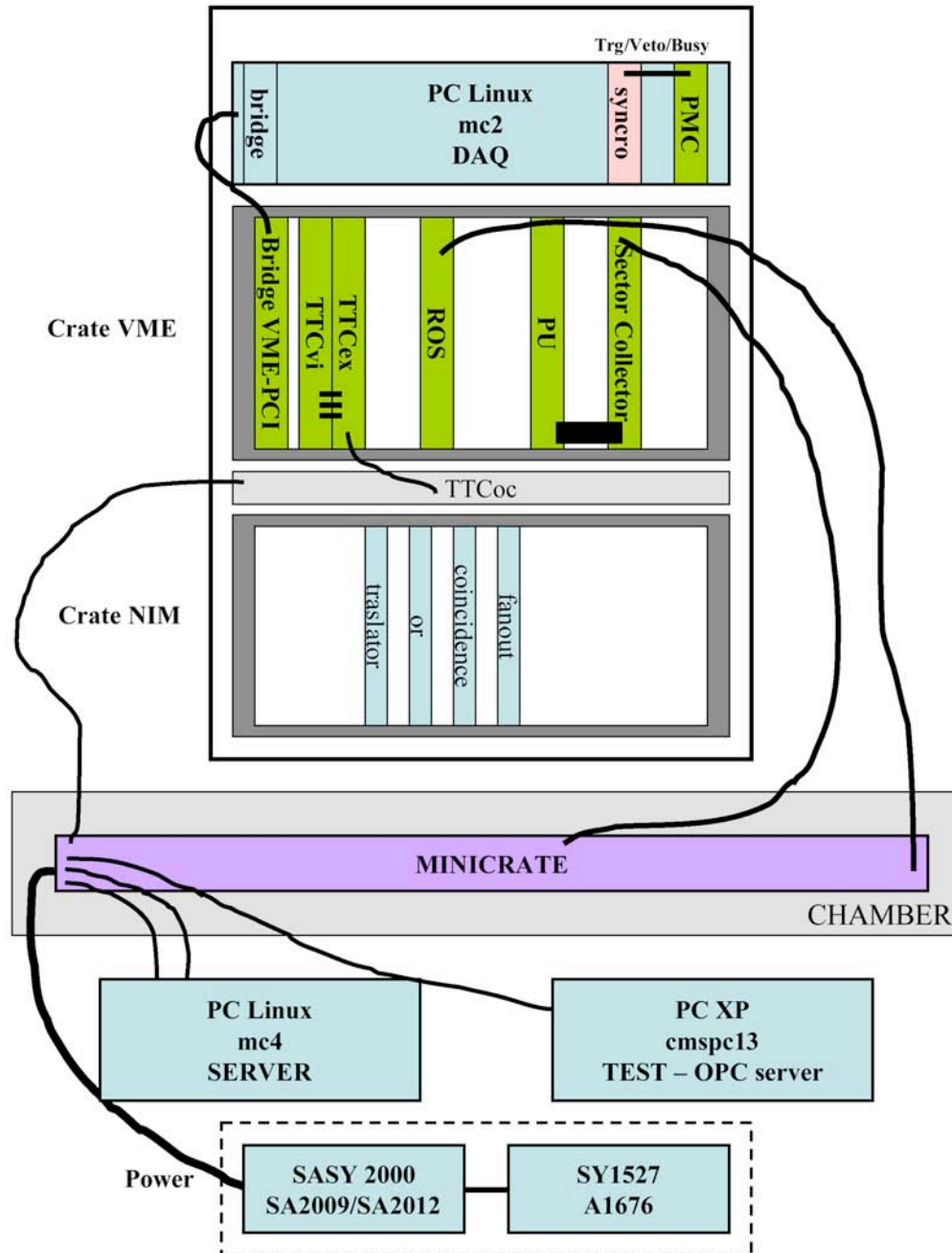
- **Gas Leak test:**

  Not convinced it should be done. Decision needed

MiniCrate Installation in situ

- Connect the MC to the cooling loop
- Make an overpressure test with portable system on cherry picker (hardware ready?)
- Cabling of the MC to the chamber: FE, test pulse, DCS, LV splitter Board,
- MC functionality tests with "portable system" to check for cabling errors. Cooling water needed, standalone system?
- Check gas tubes and make gas leak test.
- Insert carters, connect HV to jumper boxes, connect LV

Chambers Equipped with MC

- MC functionality tests to check for damage during transportation (at least for the beginning)
- Install chamber
- No further tests until cosmics with self-trigger

A more compact, simplified version needed for SX5.

What is the max cable length for LV supplies?

Test done from cherry picker or long cables from MC to test crate?

DCS, DSS needed for tests with cosmics

Do we want an Oxygen analyzer at SX5?