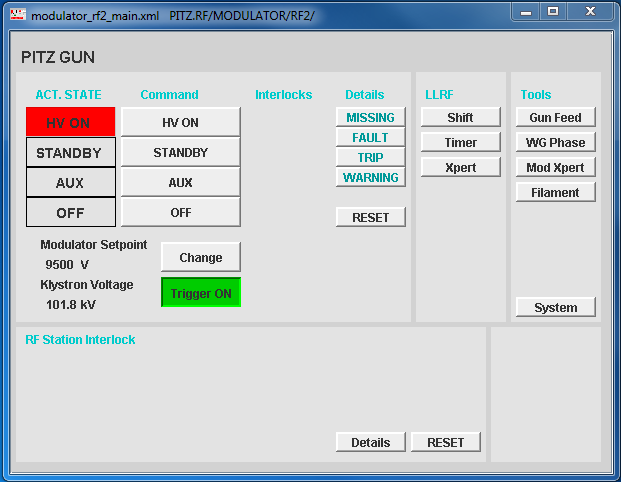
PITZ Shutdown Procedure

Switch off **Gun (RF2)**:

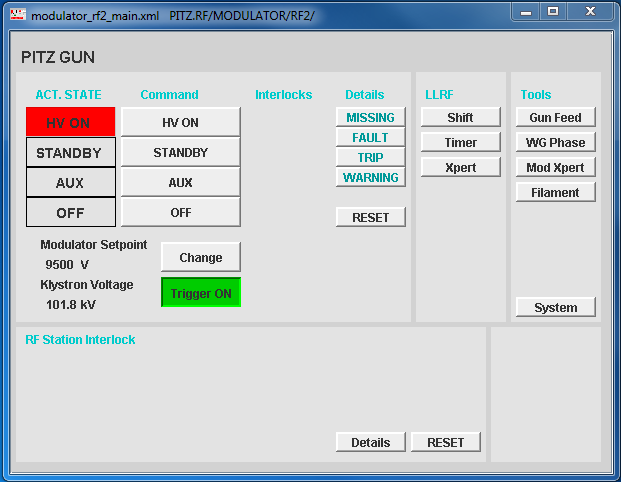
*Software shutdown procedure Step1:*



1. Ensure that LLRF feed forward is off, if necessary switch off SMAC.
2. Set Modulator Setpoint (voltage) to the minimal value (“Change” button 🡪 4000V) and wait until it reaches that voltage.
3. Push “AUX” button.
4. Push “Trigger” button (Trigger OFF).

* “Traffic light” has to move from HV ON to AUX.

***Software shutdown procedure Step2:***

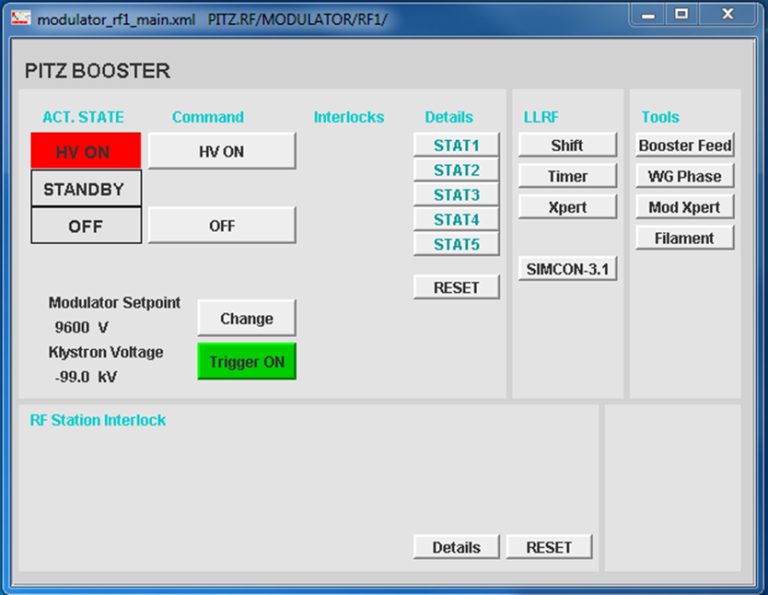


1. Push “Filament” button.
2. Push “STANDBY” button in *Filament Control* window.

**In case of a longer shutdown please contact the experts from the RF-group.**

Switch off **Booster (RF1)**:

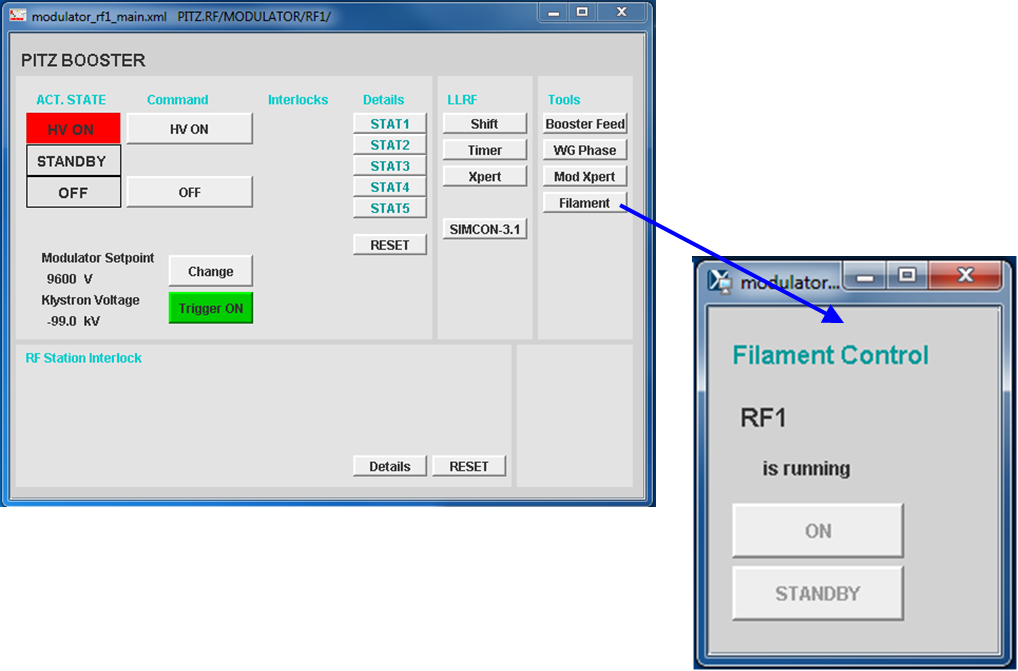
*Software shutdown procedure Step1:*



1. Ensure that LLRF feed forward is off, if necessary switch off SMAC.
2. Set Modulator Setpoint (voltage) to the minimal value (“Change” button 🡪 4000V) and wait until it reaches that voltage.
3. Push “Trigger” button (Trigger OFF).
4. Push Modulator “OFF” button.

* “Traffic light” has to move from HV ON to OFF.

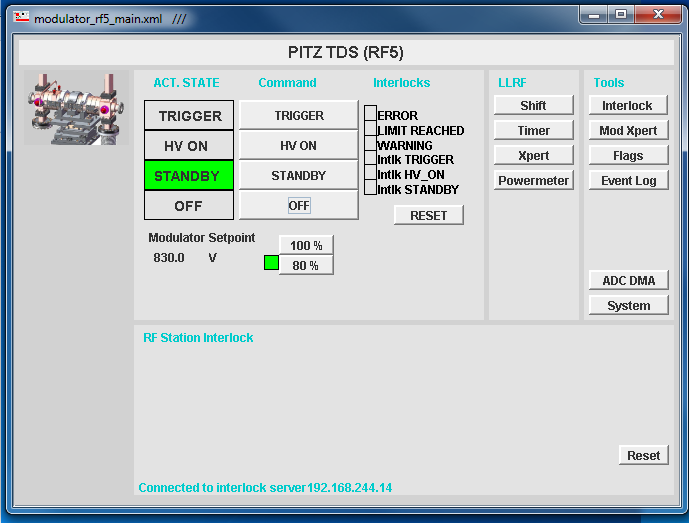
*Software shutdown procedure Step2:*



1. Push “Filament” button.
2. Push “STANDBY” button in *Filament Control* window.

**In case of a longer shutdown please contact the experts from the RF-group.**

Switch off **TDS (RF5)**:

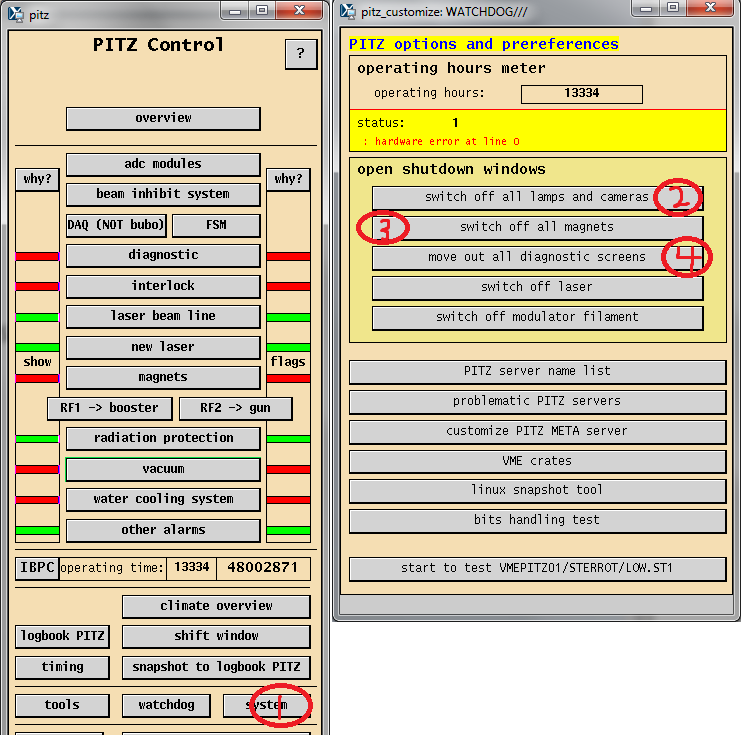


1. Ensure that LLRF feed forward is off.
2. Push “STANDBY” button.

* “Traffic light” has to move from TRIGGER to STANDBY.

**Filament ramp-down process starts with activating “OFF” button and takes about 5 minutes.**

Switch off **all electronical devices in beam line**:



1. Go to: PITZ control/system.
2. Push EVERY button in “open shutdown windows” from top to bottom and confirm the request

**To be discussed (open PITZ control/system):**

1. New first button – “close all windows” (except PITZ control!)
   1. reason: in that case the focus of the operator will always be on the right window
2. Last button to be removed – “switch off modulator filament”
   1. reason: part of RF2 and RF1 shutdown procedure