PREPARING THE GENERATOR TO TUBE’s FILAMENT ADJUST

After switched ON and connected to Navigator, receive the global configuration.

Then select the Global Parameters of configuration right licking on “Config from GEN” tree.

SAVE THE ORIGINAL CONFIGURATION ON DISK as explained in technical manual.

Uncheck “kV, mA check enable” checkmark to avoid having error message of mA out of tolerance on control console.

then press “OK & Send” button.
Left click on tube tree leaf to open the tube options:

Here select STANDARD Library.

Select the tube you have, if present in library, or a similar tube present in library:

After the choice is done, press “LOAD” key to load both filaments characteristics and calibration.
IN CASE YOU WANT TO COMBINE THE FOCUS FROM TWO DIFFERENT TUBE YOU CAN LOAD ONLY THE SELECTED FOCUS WITH THIS OPTION

Then press YES to send the new tube’s data to generator

Tube will be transmitted to generator then close library window pressin “X” key

ADJUSTING THE FILAMENT CALIBRATION

Disconnect Navigator from generator

Switch off the generator and switch it on again.

Tube’s filament adjust is generally made on Working Station n. 4 (DIRECT for R306.3x class generator).

Press OK on generator’s console to enter in STAND-BY status
Reconnect navigator

Select Operating Window and press adjust key
A new window will pop up in this window let the adjust of the filaments in interval:

4 intervals for Small Focus and 5 intervals for large Focus.

Start testing Large Filament 70kV, 100mA and always 50ms (period long enough for current good sampling and short enough to do not have thermal corrections).

Expose.

"WHEN EXPOSURE IS REQUEST, PRESS PREPARATION KEY, KEEP IT FOR AT LEAST 2 SECONDS, THEN PRESS EXPOSE KEY"

On left side of operating window there is control console data, on right side the actual data after exposition.
In case actual mA are lower rise the by 10 point, for example, then press and wait that right side turns like left side.

Then set 71kV on control console and 70kV again, this will re-compute the filament lighting.
Expose and check the emission.

Repeat those steps until a real value closed to the set value is recorded.

After the mA are corrected, try to make exposition with same mA, 50ms, 50kV, and also same mA, 50ms, 100kV.

In case 50kV and 100kV exposition gives mA value closed to the correct one, keep on testing the interval edge to check for filament dynamics:

Try 32mA, 64mA, 80mA, 125mA @ 70kV 50ms

If the real mA are closed to the set mA, the dynamic is correct and it is possible to pass to next step:

Copy the value set for “Up to 125mA” interval in “Up to320mA” then press \(\text{OK} \& \text{Send}\) and wait that right side turns like left side.

Then set on control console 250mA and expose.

Repeat the previous step until also this interval is tuned and pass to next interval.

Remember, as high the mA, higher the power, so be carefully

After Large focus is done, repeat the procedure for Small focus starting from:

70kV, 63mA, 50ms
In this case, coefficient to be modify is the following:

Proceed as per large focus.

**LEAVING TUBE ADJUST PROCEDURE**

Remember to save the global configuration when tube is adjusted, then re-set the check marker.