

RPC eco-gas at GIF++ Weekly report

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February 29th, 2024

Stability run 203

Stability - Run ID 0203

Summary

Run config

Log file

Monitoring

Plots

Run start:

2024-02-22 07:07:19

Run end/last action:

2024-02-28 11:12:27

Comments:

Restarting the stability run after HFO bottle change. Eco-2 gas mixture. Detectors included: EPDT + SHiP + RE11 + KodelH

Save changes

Delete run

Status:

FINISHED

Duration:

6 days, 4 hours, 5 minutes

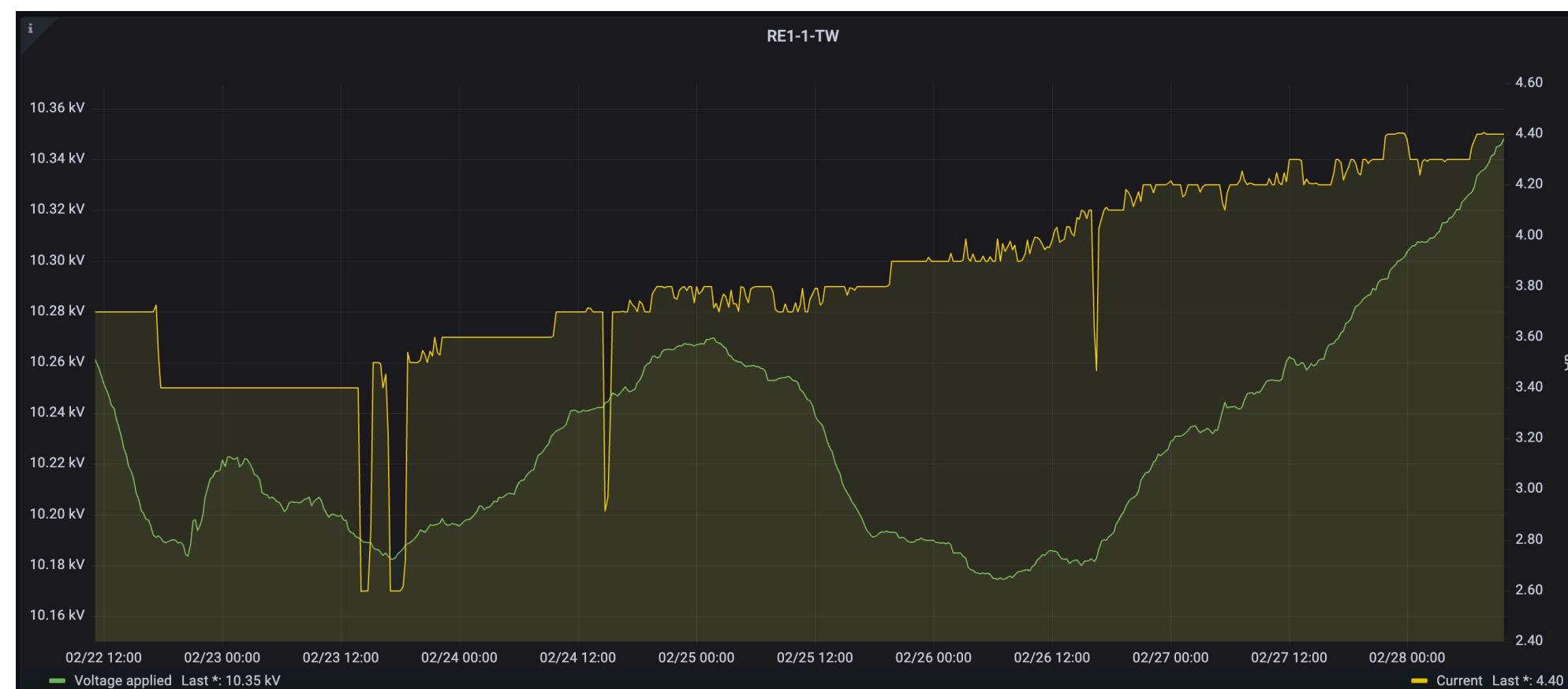
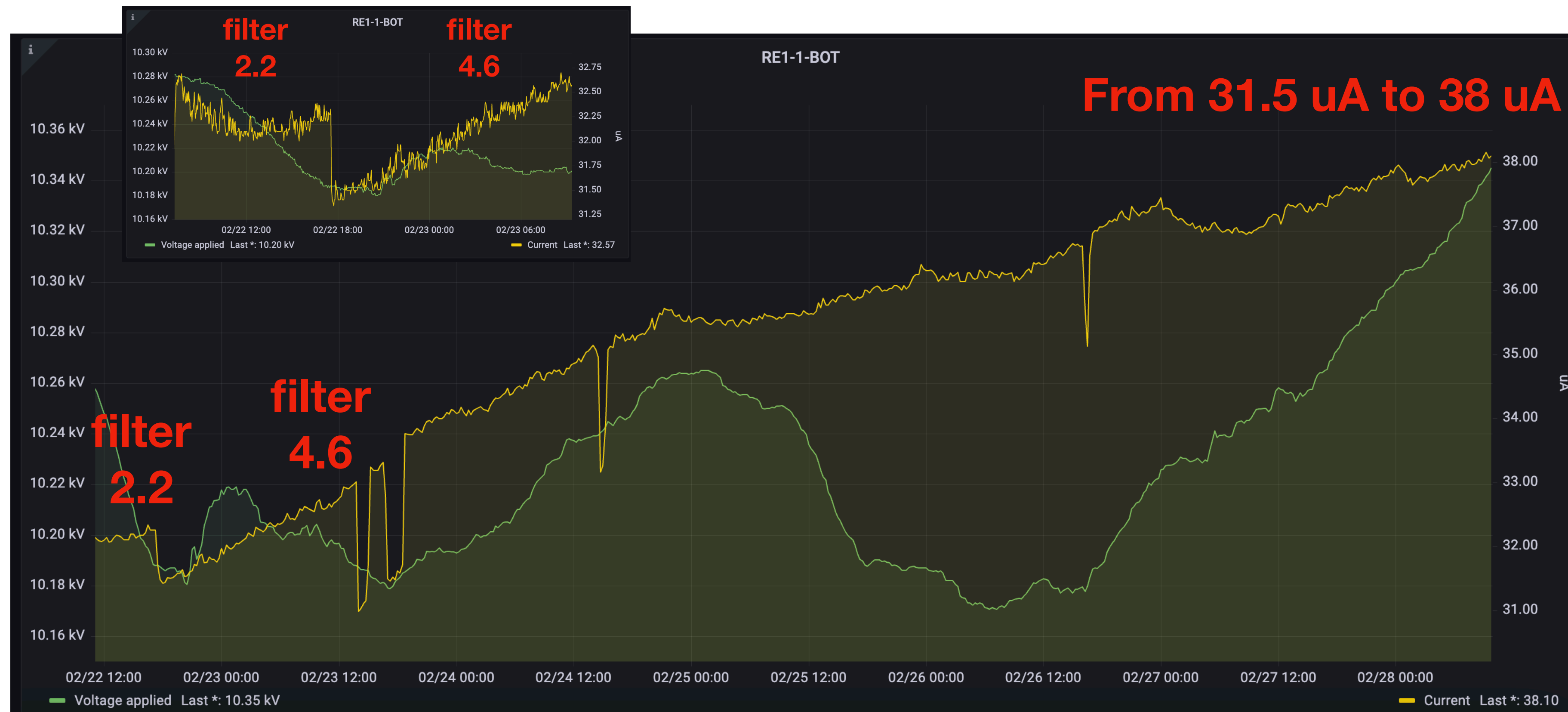
- No major problems during the shift
- Question: is the attenuation filter 4.6 the default now?

A semi-circular gauge with a green needle pointing to the value 708 L. The text 'HFO used liters' is at the top. The gauge has a green arc on the left and a red arc on the right.

Shfter(s)	Marco & Barbara	Marco & Barbara	Marco & Barbara	Marco & Barbara	Marco & Barbara	Marco & Barbara	Marco & Barbara	Marco & Barbara
LOGGING	22/02/2024	23/02/2024	24/02/2024	25/02/2024	26/02/2024	27/02/2024	28/02/2024	29/02/2024
Logger status	ok	ok	ok	ok	ok	ok	ok	ok
WebDCS status	ok	ok	ok	ok	ok	ok	ok	ok
HV data is logged	ok	ok	ok	ok	ok	ok	ok	ok
Grafana alarms - check that the heart icon on the panels is green	ok	ok	ok	ok	ok	ok	ok	ok
MIXER								
Gas mixture	ECO2	ECO2	ECO2	ECO2	ECO2	ECO2	ECO2	ECO2
Check gas mixture percentage iC4H10	4	4	4	4	4	4	4	4
Check gas mixture percentage CO2	60	60	60	60	60	60	60	60
Check gas mixture percentage HFO	35	35	35	35	35	35	35	35
Check gas mixture percentage SF6	1	1	1	1	1	1	1	1
Total gas flow	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
HFO used	89.8 L	165 L	247 L	342 L	435 L	524 L	608 L	704 L
HUMIDIFIER								
By pass valve status:								
Humidifer Wet MFC:	15.5	15.5	15.5	15.5	15.4	15.5	15.5	15.5
Dew point:	4.52	3.55	3.55	3.77	3.93	3.87	4.31	3.85
GENERAL								
Upstream ABS:	2.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Detectors in front of setup:	https://rpcecogas.web.cern.ch/rpcecogaselog/475							
Bunker pressure:	943.8	934.4	946.8	949.4	941.6	949.8	960.2	958
Bunker temperature:	20.3	20.2	20.2	20.2	20.2	20.3	20.3	20.4

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RE_1_1 chamber

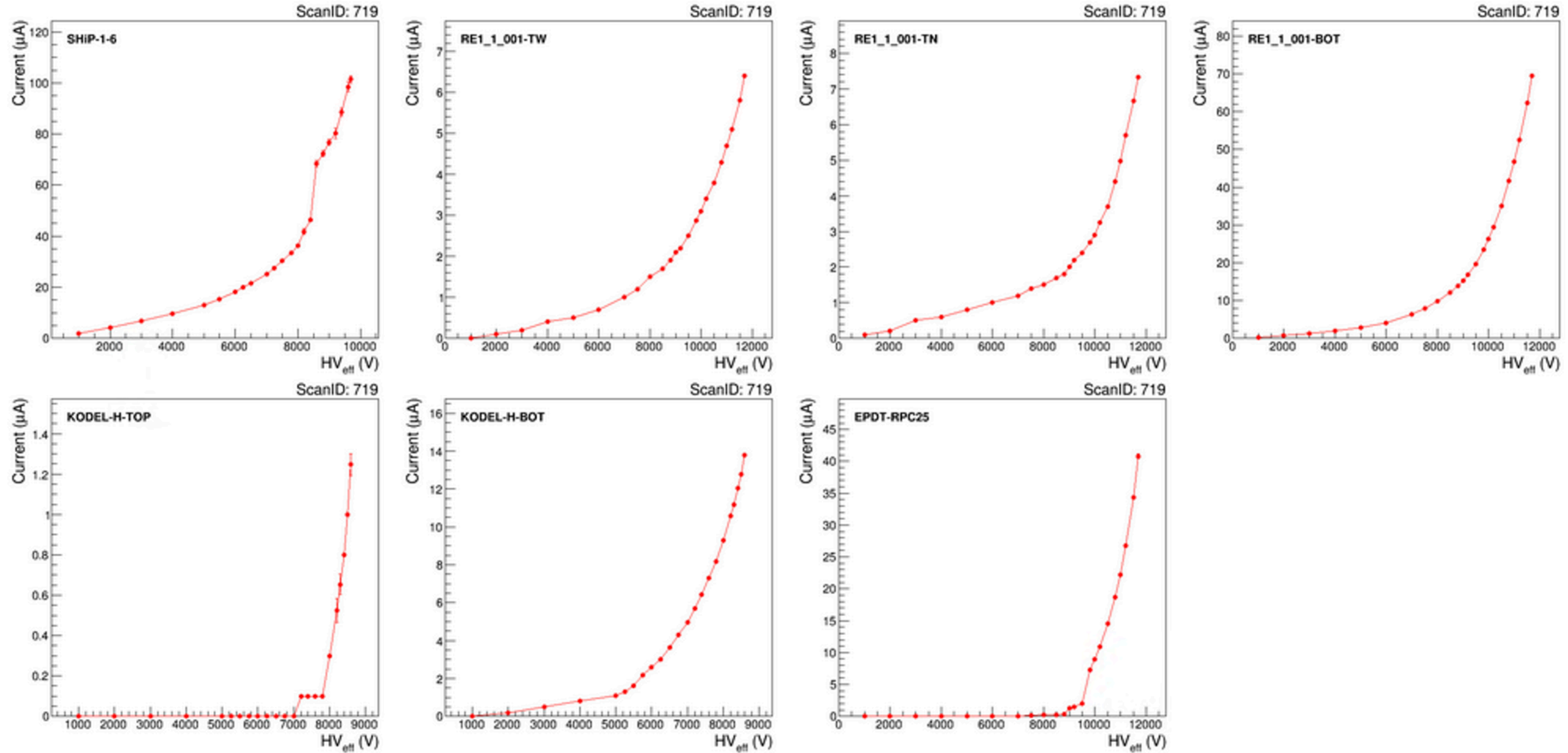


- Observed an increase of current for RE_1_1_BOT (and slightly also for RE_1_1_TW) few hours after the start of the stability run on 22 February

<https://rpcecogas.web.cern.ch/rpcecogaseolog/478>

HV scan 719

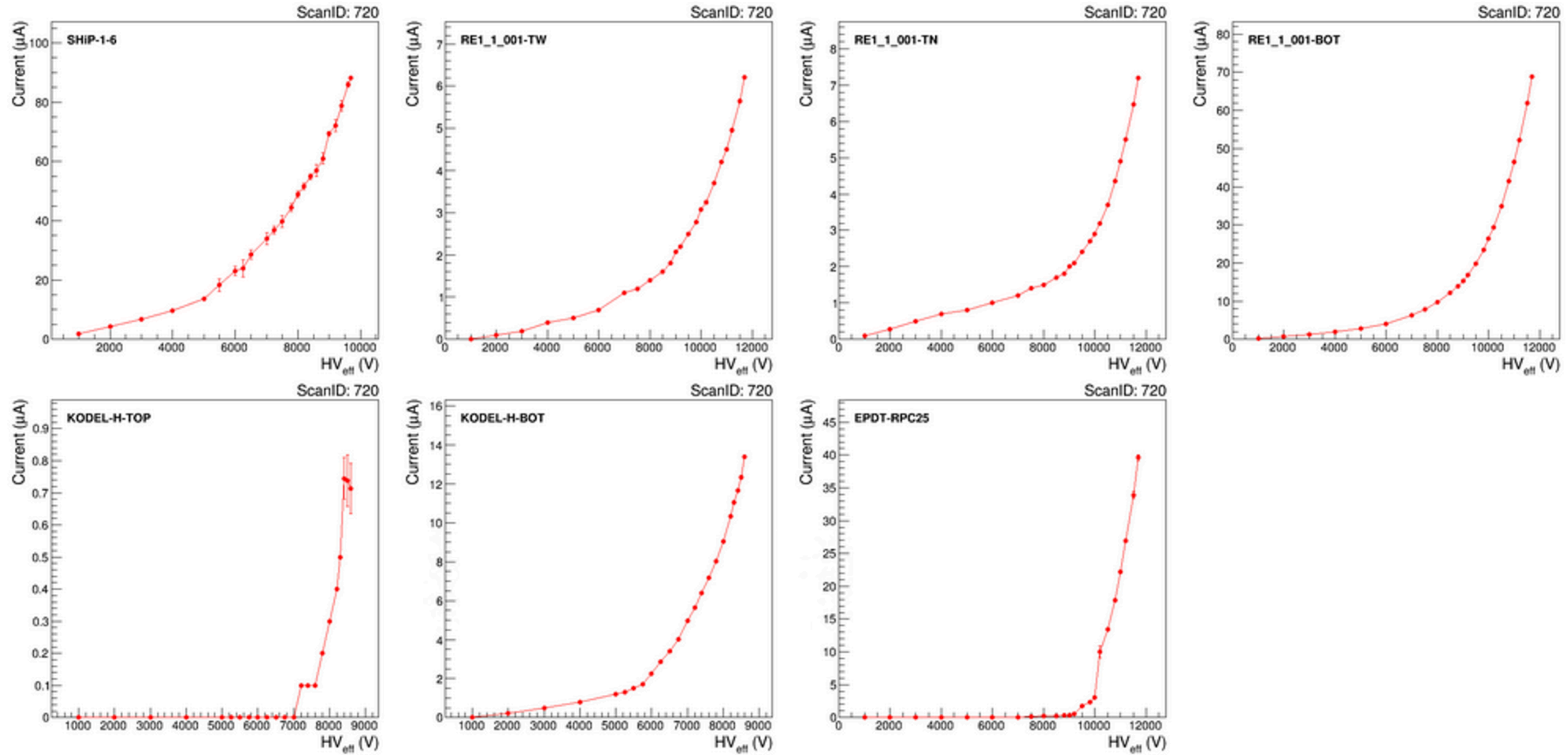
Wednesday 28th February



Similar results for scan 719 and 729 -> only a 25 μA jump observed for SHIP in scan 719 around 8000 V (already observed in other HV scans)

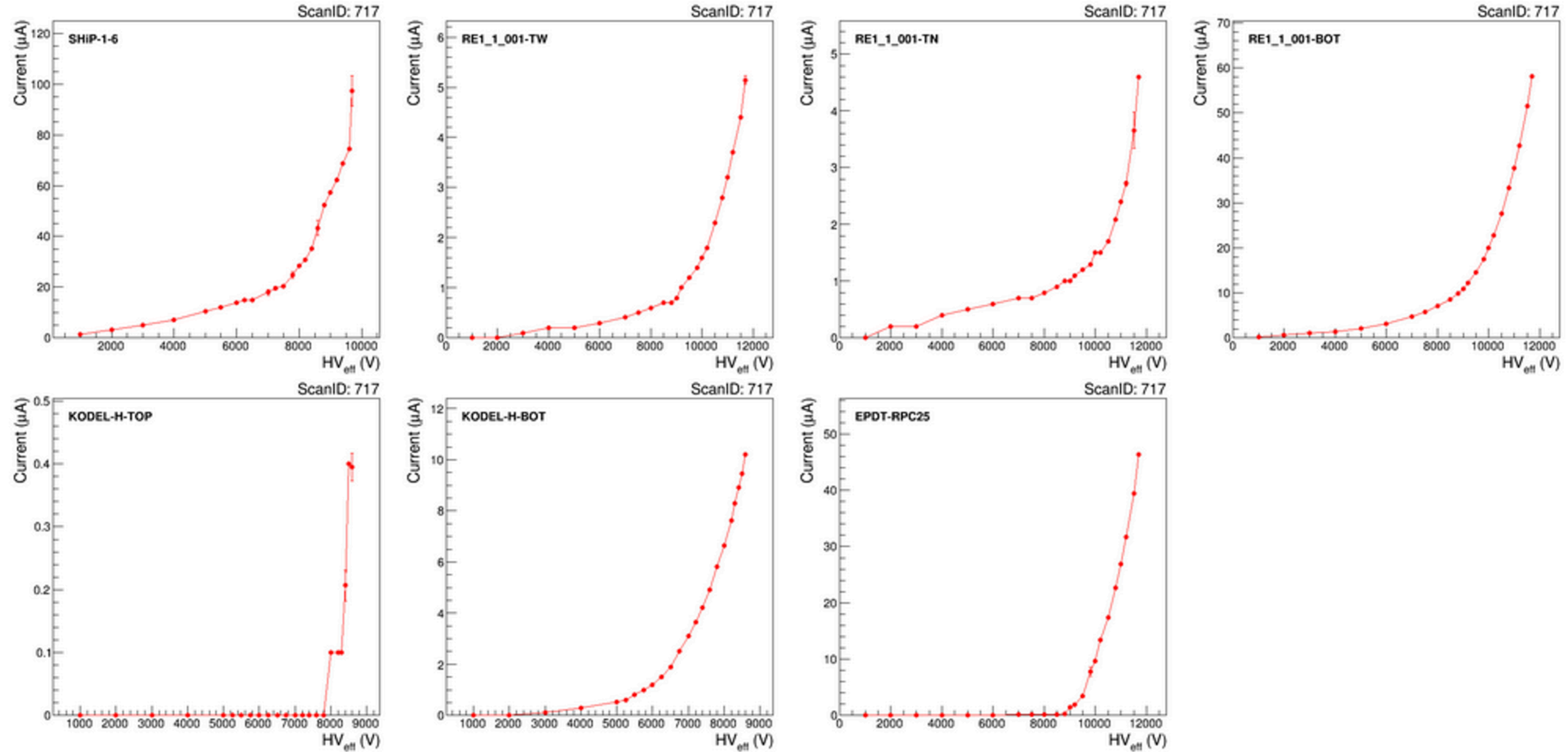
HV scan 720

Wednesday 28th February



Similar results for scan 719 and 729 -> only a 25 μA jump observed for SHIP in scan 719 around 8000 V (already observed in other HV scans)

HV scan 717 from last week (for comparison)



No huge differences observed, but I have the feeling that for SHIP and RE_1_1_TW the amplification in the gas starts before in runs 719 and 270 w.r.t. run 717

RPC ecogas e-log system down

Application Not Available (Error 503)

The application or website you were looking for is known on this server, but it is currently not available. If you are the owner of the application, please check the following conditions:

- **All pods are down:**

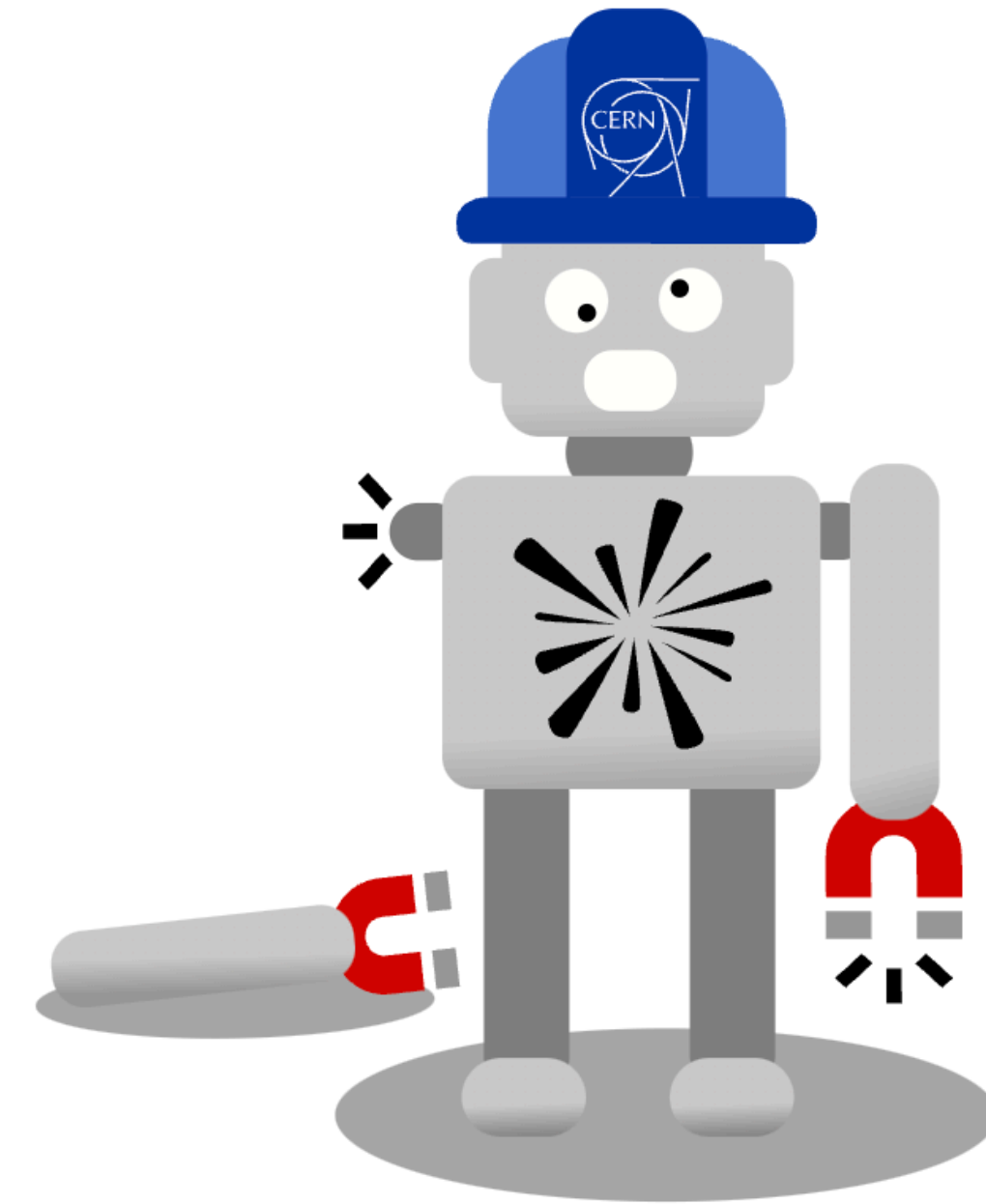
The application may not have been started successfully or is still starting. Ensure that at least one application pod is running and ready.

- **Misconfigured route or service:**



The route is not pointing to the correct service (`route.spec.to.name`) or the service does not target the correct set of pods (`service.spec.selector`). Make sure that the service has available endpoints.

You may also consult the following resources:

- [CERN Homepage](#)
- [IT service status](#)
- [Service Desk](#)
- [Web Services Portal](#)



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Da Giuseppe Pezzullo 
A GIF-active-users (Users operating at the new GIF (EHN1)) <GIF-active-users@cern.ch> 
Oggetto **e-log back on**

Dear colleagues,

as reported by some of you yesterday, we had some problem on the e-log.
Now, everything is fine and it is back online.

Sorry for that issue.

Kind regards,
GIF++ team

Genève 23, Switzerland



•GIF e-log system restored
this morning around 9 am

Ongoing stability run 204

- Started this morning evening around 6:00
 - Source was ON since yesterday, but I didn't notice since the e-log systems were down



References for next runs

- For stability -> use template run 204
- For HV scans -> use template run 720 -> for EPDT needed to change Itrip from 20 uA to 100 uA (from telnet, for the HV scan only)