



Experience

PS HV quoted. Cathode HV is ~5% less.

**CL: Current Limiting event
FD: Fast discharge. Goes above the CL. Likely a toroid signal.
Other current “blips” haven’t been counted.**

- 100 kV PS/~95 kV cathode: 1 CLs. 0 FDs. 12 hours
- 105 kV: 6 CLs in 21 hours (perhaps getting more busy in time). 0 FDs.
- 115 kV PS: ~40 hours, 19 CLs, 0 FDs. Note, tested shortly after a trip from a higher voltage.
- 125 kV PS: 1st: 16 hours, CL/2 hours, 1 FD. 2nd: 14 hours, 5 CLs, 1 fast discharge
- 130 kV PS: 28 hours, ~<1 CL/hour, 2-3 FD, trip.
- 140 kV PS: 1st: Held <1 hour, 1 CL + trip. 2nd: “held” nearly 6 hours, about 1 FD per hour. Big trip (>300 uA)
- 150 kV PS: Held a few hours (~3). Activity: ~4/hr, 2 FD spikes (>100 uA) + trip
- > 150 kV PS: Tripped twice with current spikes > 200 uA while going to 170 kV.

What about the Ground Planes? (Pick-offs included)

GP Hit Categories	# Hits
TorNoise_	267
Trig_	79
Noise_	39
VertD_POW_	37
Noise_BP_	25
Noise_Bott_	20
POW_	19
NVH	19
TopS_	18
TopN_	15
POE_POW_	14
Noise_POW_	14
Noise_POE_POW_	11
POE_	11
VertU_BP_POW_	10
VertD_POE_POW_	7
Noise_POE_	6
Noise_VertU_	6
VertU_BP_POE_	6
BP_POE_	6
TopN_BP_	6

Bott_	5
Noise_Bott_BP_	4
Bott_VertU_BP_POE_	4
Noise_VertU_BP_	4
Noise_Bott_BP_POE_	4
TopWest_VertU_POE_	4
TopWest_BP_POE_	3
Noise_TopWest_Bott_	3
Noise_VertD_	3
Noise_Bott_VertU_	3
TopWest_POE_POW_	3
VertU_POE_	3
Noise_TopWest_BP_	3
TopWest_Bott_VertU_	3
Noise_TopWest_BP_POE_	3
Noise_BP_POE_	3
VertD_	2
Noise_Bott_VertU_BP_	2
Noise_VertD_BP_	2
Bott_VertU_VertD_	2