

# Moving Shielding Blocks Oct 28/25



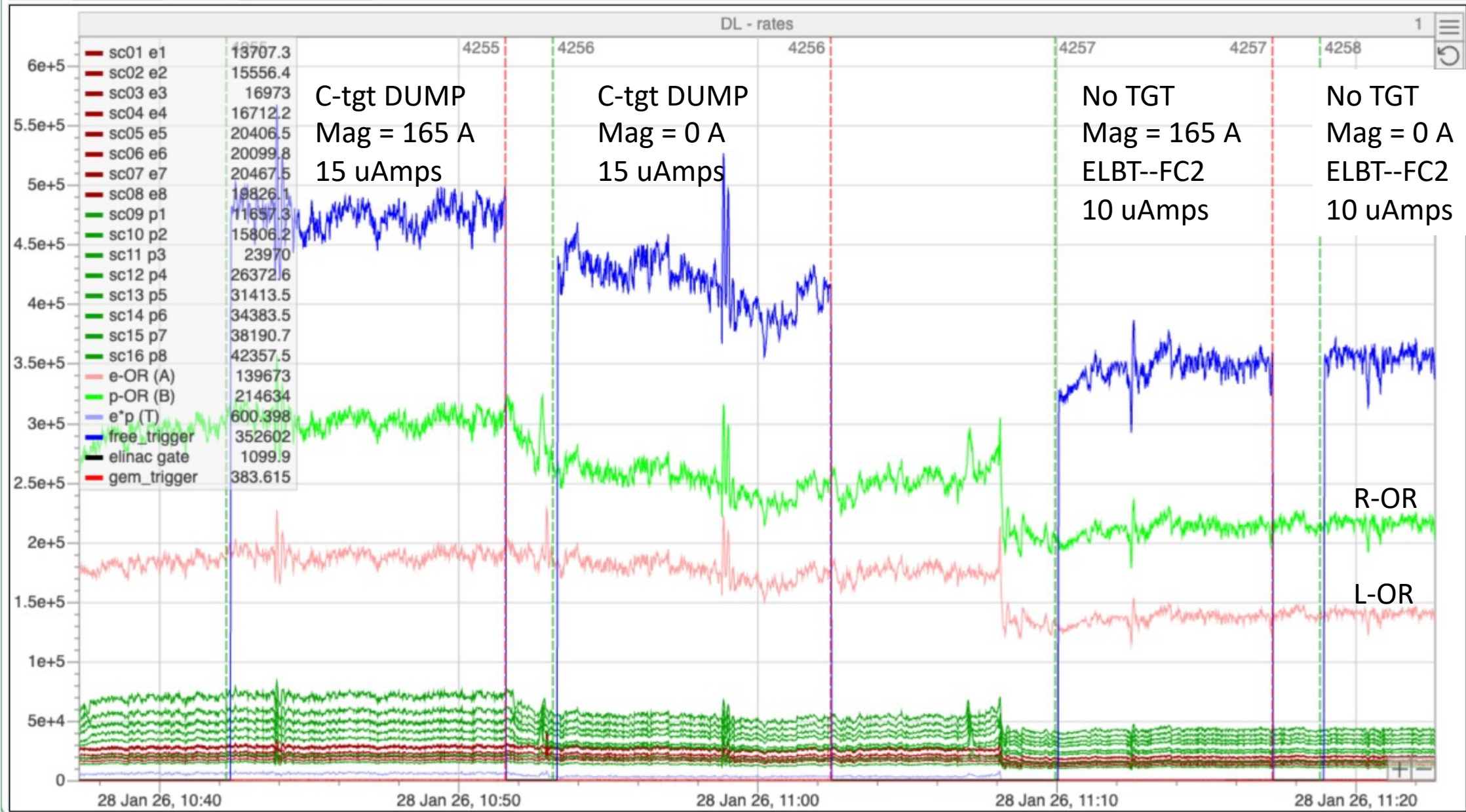
# Proposed Shielding Block Location for 2027 Run



- ❖ move 2x3x6 ft blocks (~4500 lbs) with a pallet jack
- ❖ lift 1x2x3 ft blocks (~ 900 lbs) with the overhead wall crane



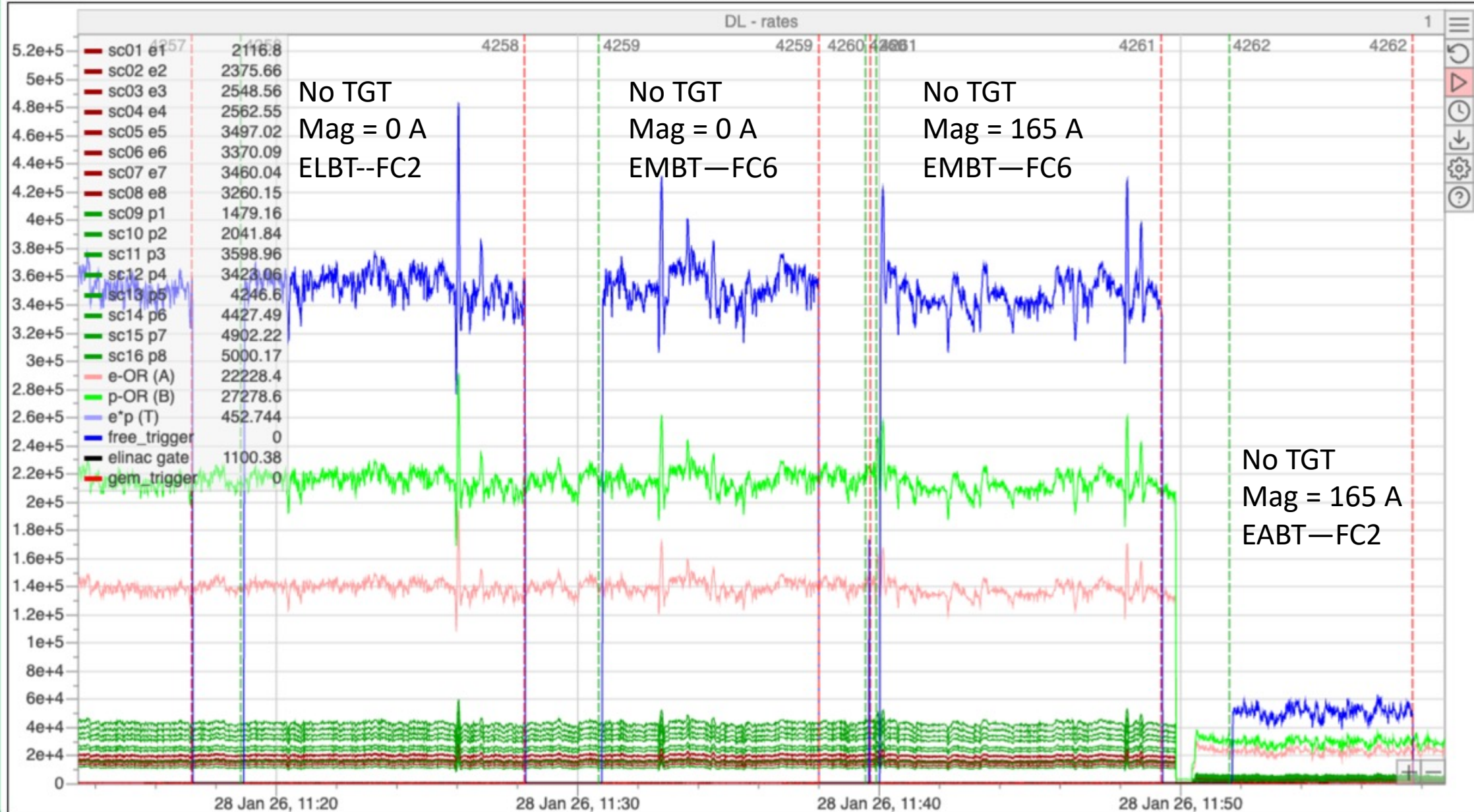
Group: DL Panel: rates  Keep horizontal axis when switching panels



### History

## Runs 4258--4262

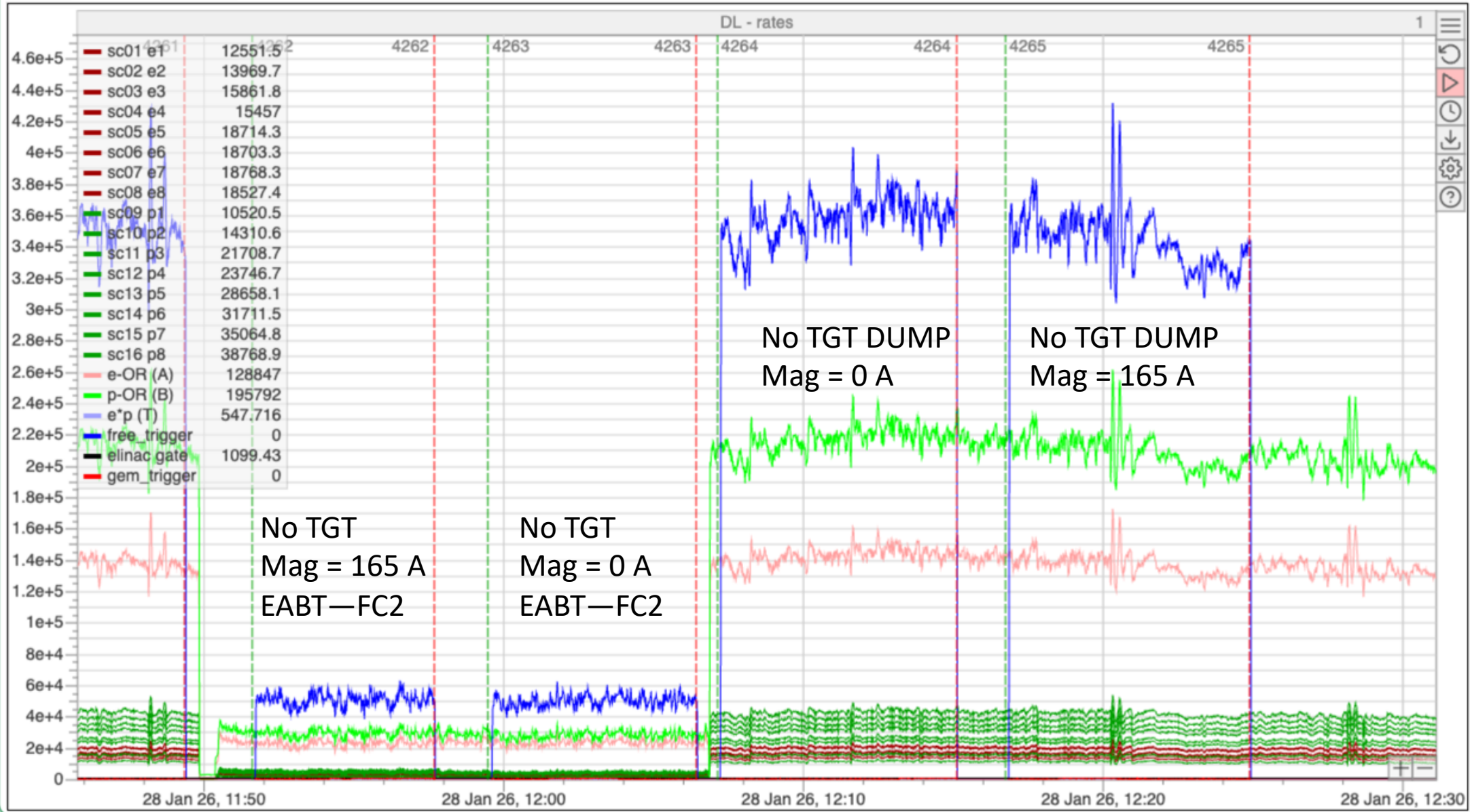
Group: DL Panel: rates  Keep horizontal axis when switching panels



### History

## Runs 4262--4265

Group: DL Panel: rates  Keep horizontal axis when switching panels

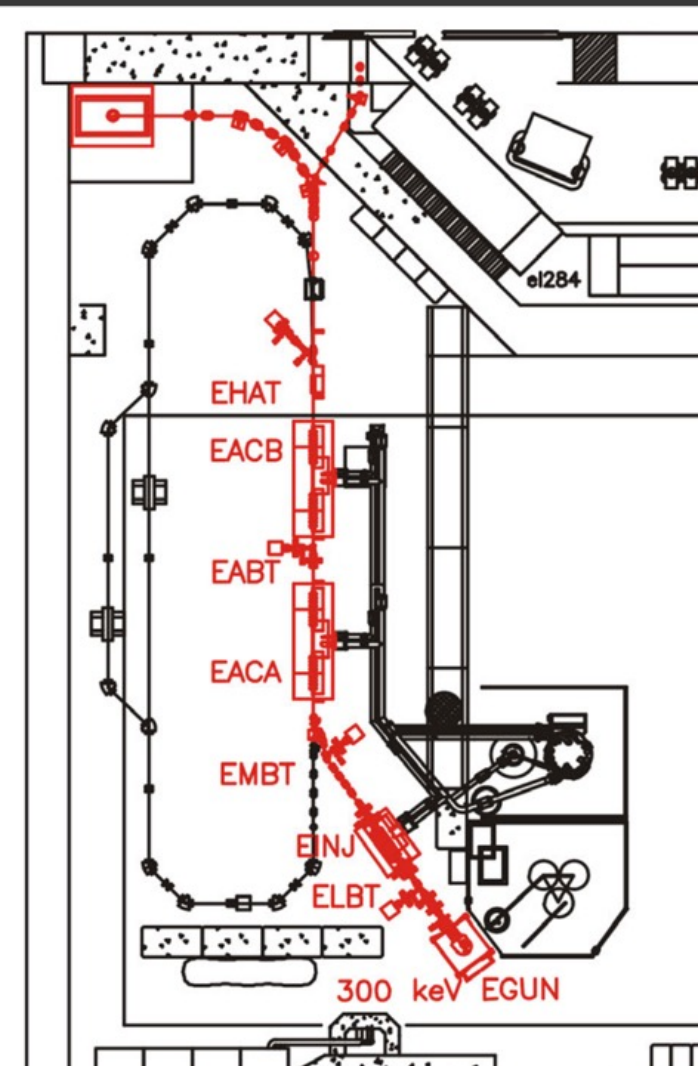


Runs 4258--4262

Trigger is OR of left and right

1. Run 4255, 525k events , spectrometers at 165 A both sides. ACCT current  $\sim 15 \mu\text{A}$ . EINJ DAC 930, EACA 1500.
2. Run 4256, 500k events, spectrometers at 0 A both sides, ACCT current  $\sim 15 \mu\text{A}$ , DACs the same.
3. Run 4257, 300k events, beam stopped at ELBT:FC2 AND Target out, spectrometers at 165 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
4. Run 4258, 250k events, beam stopped at ELBT:FC2 AND Target out, spectrometers at 0 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same
5. Run 4259, 250k, beam stopped at EMBT:FC6 AND Target out, spectrometers at 0 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
6. Run 4261, 250k, beam stopped at EMBT:FC6 AND Target out, spectrometers at 165 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
7. Run 4262, 260k, beam stopped at EABT:FC2 AND Target out, spectrometers at 165 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
8. Run 4263, 250k, beam stopped at EABT:FC2 AND Target out, spectrometers at 0 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
9. Run 4264, 260k, beam to dump AND Target out, spectrometers at 0 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.
10. Run 4265, 280k, beam to dump AND Target out, spectrometers at 165 A, ACCT current  $\sim 10 \mu\text{A}$ , DACs the same.

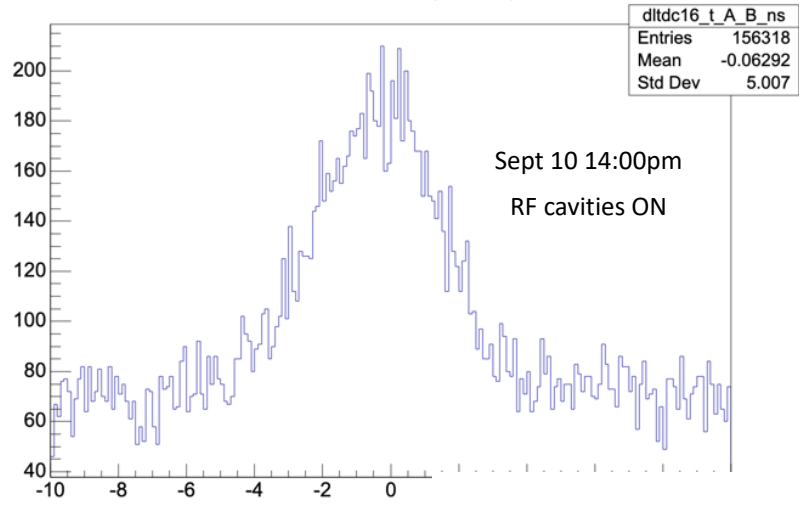
Run#	sc1--8 (kHz)	sc9-16 (kHz)	e(OR) kHz	p(OR) kHz	Conditions Beam/Spectrometer Currents
4255	18 -- 30	17 -- 76	196	315	15 $\mu\text{Amps}$ 165 Amps both arms Beam to DUMP, Tgt = Carbon
4256	18 -- 28	15 -- 58	190	271	15 $\mu\text{Amps}$ 0 Amps both arms Beam to DUMP, Tgt = Carbon
4257	13 -- 20	12 -- 43	138	212	10 $\mu\text{Amps}$ Beam stopped ELBT:FC2, 165 A spect, Tgt OUT
4258	14 -- 20	12 -- 44	143	222	10 $\mu\text{Amps}$ Beam stopped ELBT:FC2, 0 Amps spect Tgt OUT
4259	15 -- 21	12 -- 45	148	227	10 $\mu\text{Amps}$ Beam stopped EMBT:FC6 0 Amps spect Tgt OUT
4261	13 -- 20	12 -- 43	138	213	10 $\mu\text{Amps}$ Beam stopped EMBT:FC6 165 Amps spect Tgt OUT
4262	2 -- 3	1.7 -- 6.0	22	28.5	10 $\mu\text{Amps}$ Beam stopped EABT:FC2 165 Amps spect Tgt OUT
4263	2 -- 3.6	1.5 -- 5.6	24	29.7	10 $\mu\text{Amps}$ Beam stopped EABT:FC2 0 Amps spect Tgt OUT
4264	13 -- 20	11.6 -- 41.8	139	211	10 $\mu\text{Amps}$ Beam to DUMP 0 Amps spect,same as R4265 Tgt OUT



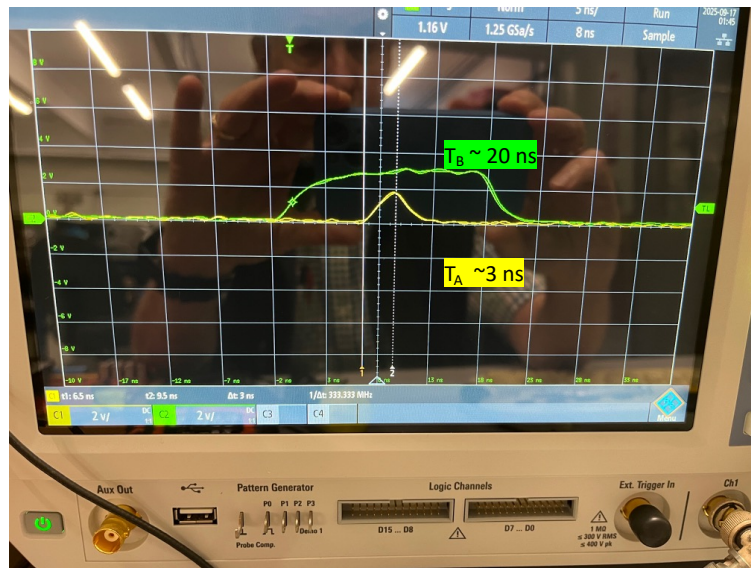
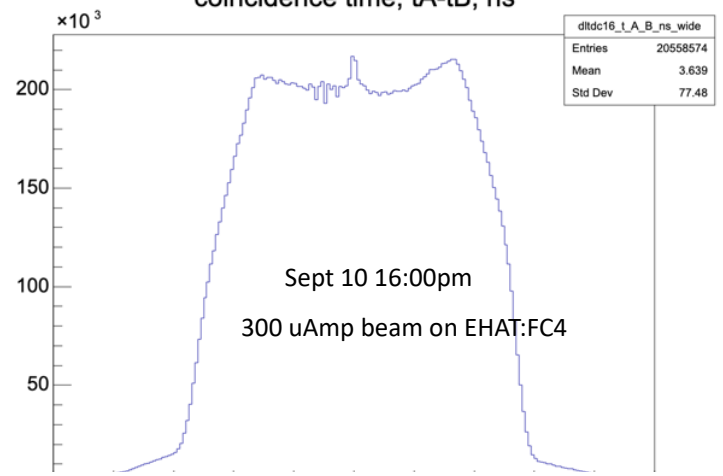
compare--4255 & 4265 after scaling to 10  $\mu\text{Amps}$

# Background rates Sept 10/25

coincidence time,  $t_A - t_B$ , ns



coincidence time,  $t_A - t_B$ , ns



Shorter coincidence window  
Sept 12/25

# Run 4349 25 MeV e-, e- spect mag = 12, 150 Amps

