

2011-01-24 Monday Morning Notes

Monday, January 24, 2011
7:39 AM

Stacking and Transfers

- Stacked 26.3mA/hr with an average production of 21.5 pbars/MP with 7.85 Tp on target.
- Unstacked 1645E10 (548E10/day) in 201 transfers (67/day) over 65 sets (22/day) with an average transfer efficiency of 95.3%

Interesting Happenings

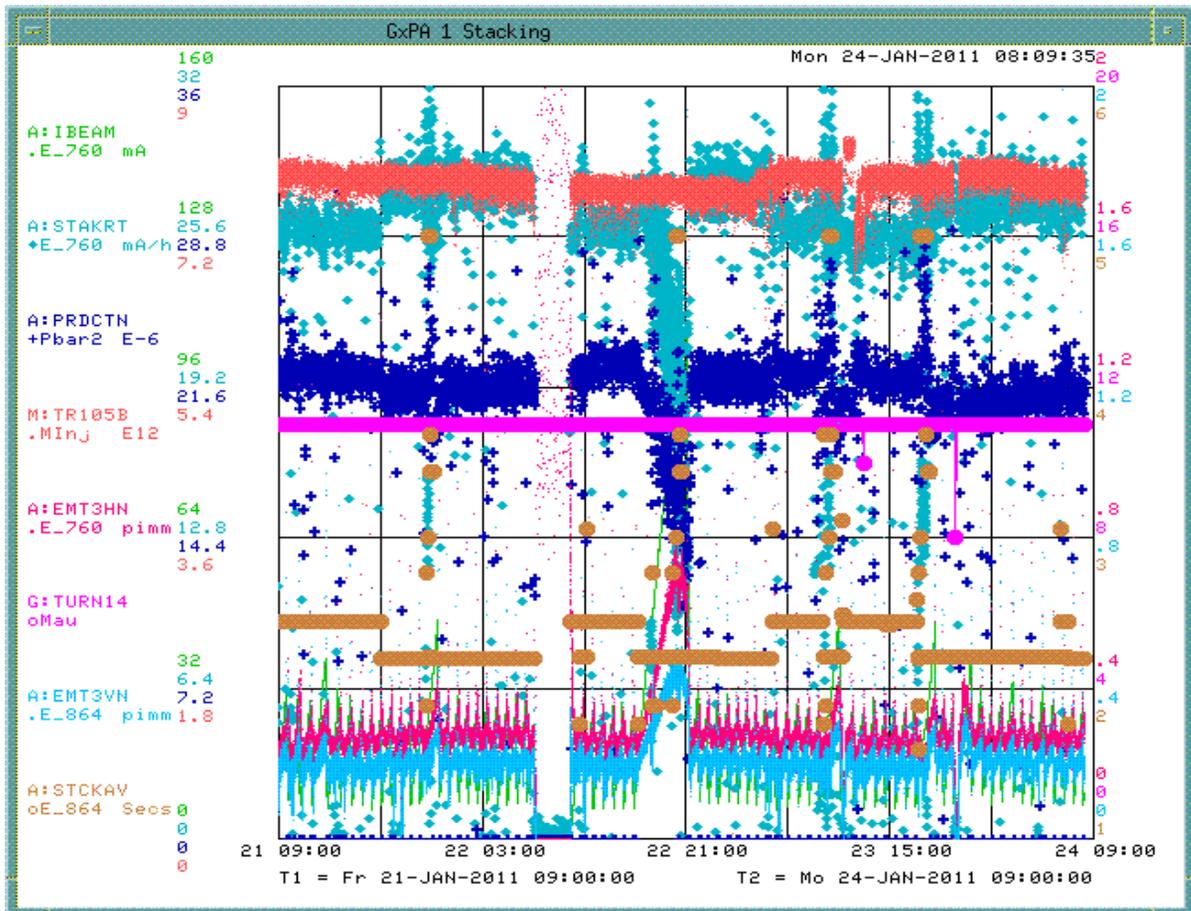
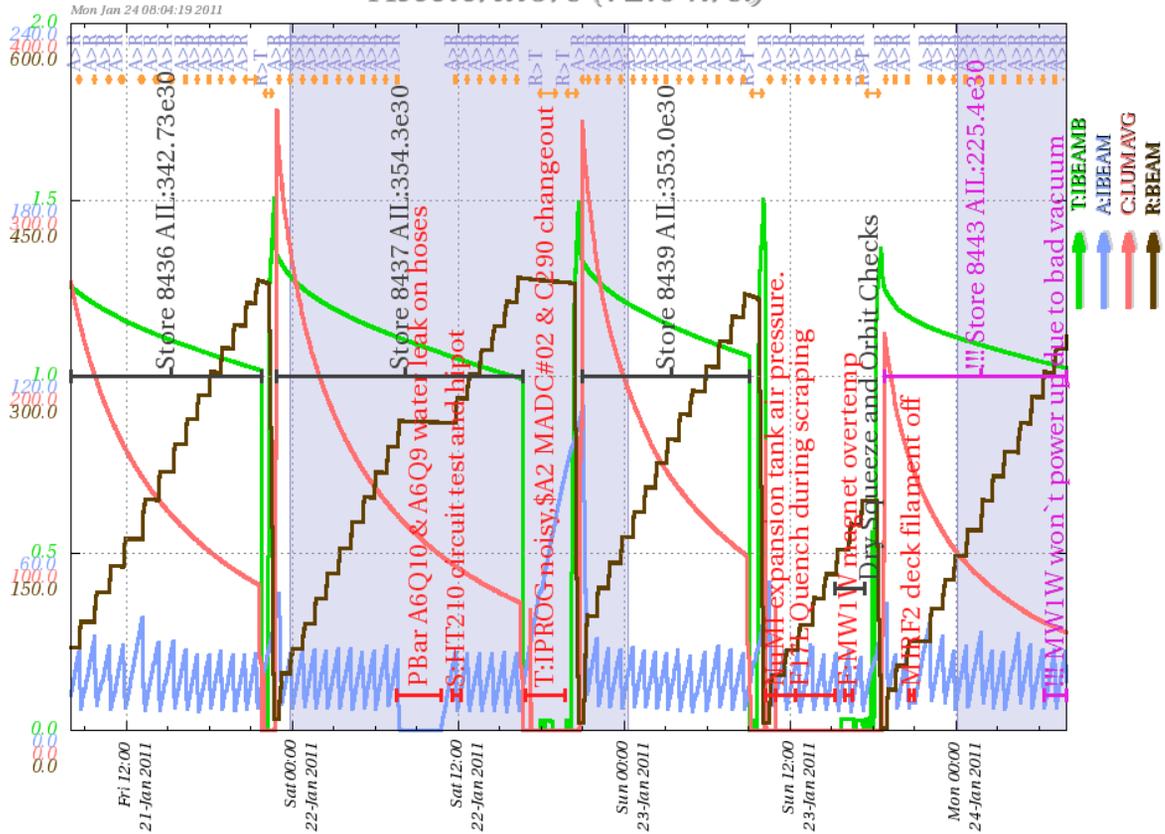
- D:QS705 developed an offset. Bernie found that Camac 054 card in slot 4 of Camac crate \$91 was bad. The card was replaced. This card also has D:QS723, D:QS716, D:QS717, D:QS722.
- AP2 BPMs were getting multiple triggers again. Dave Peterson found that the ground for the input Lemo connector on the first card needed to be strapped to the chassis. Many of the original boards have 500 ohm resistors isolating the Lemo shells. It also looks like the paint on the front panel has insulated some of the connectors and screws.
- M:TOR109 scaling was updated again.
- LCW leak A6Q10 and A6Q9 repaired.
- D:HS7174 came up to a different value after turning on.
- A:CH1TWT

Numbers

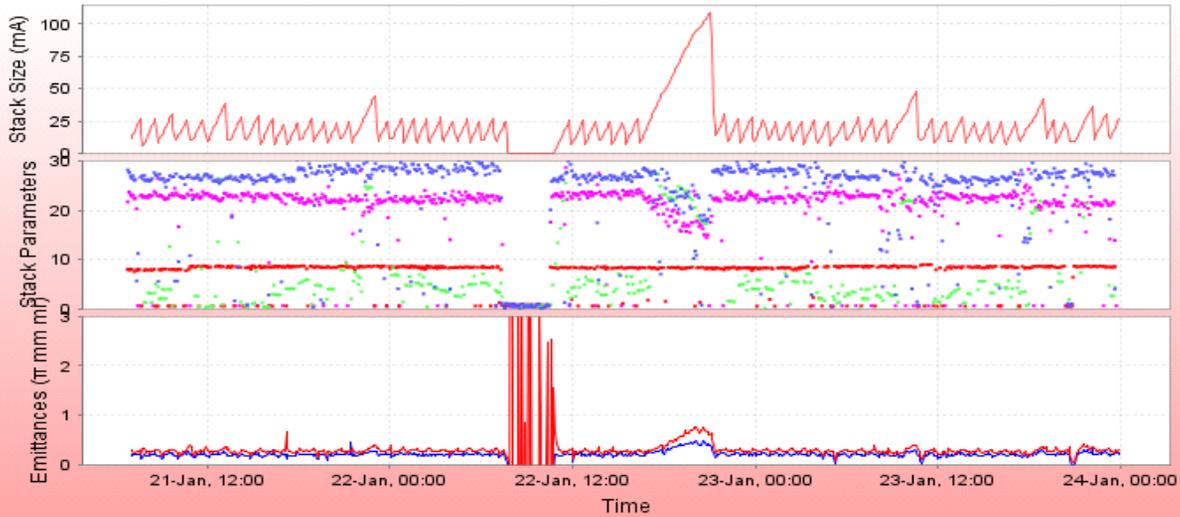
- Stacking
 - Pbars stacked: 1677.86 E10
 - Time stacking: 68.39 Hr
 - Average stacking rate: 24.54 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 104614
 - Number of pulses with beam: 101211
 - Fraction of up pulses was: 96.75%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 66.16 Hr
 - Possible average stacking rate: 25.36 E10/Hr
 - Could have stacked: 1734.28 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1676.52 E10
 - Number of transfers : 207
 - Number of transfer sets: 68
 - Average Number of transfer per set: 3.04
 - Time taken to shoot including reverse proton tuneup: 00.72 Hr
 - Transfer efficiency: 94.86%
- Other Info
 - Average POT : 7.86 E12
 - Average production: 21.10 pbars/E6 protons

Plots

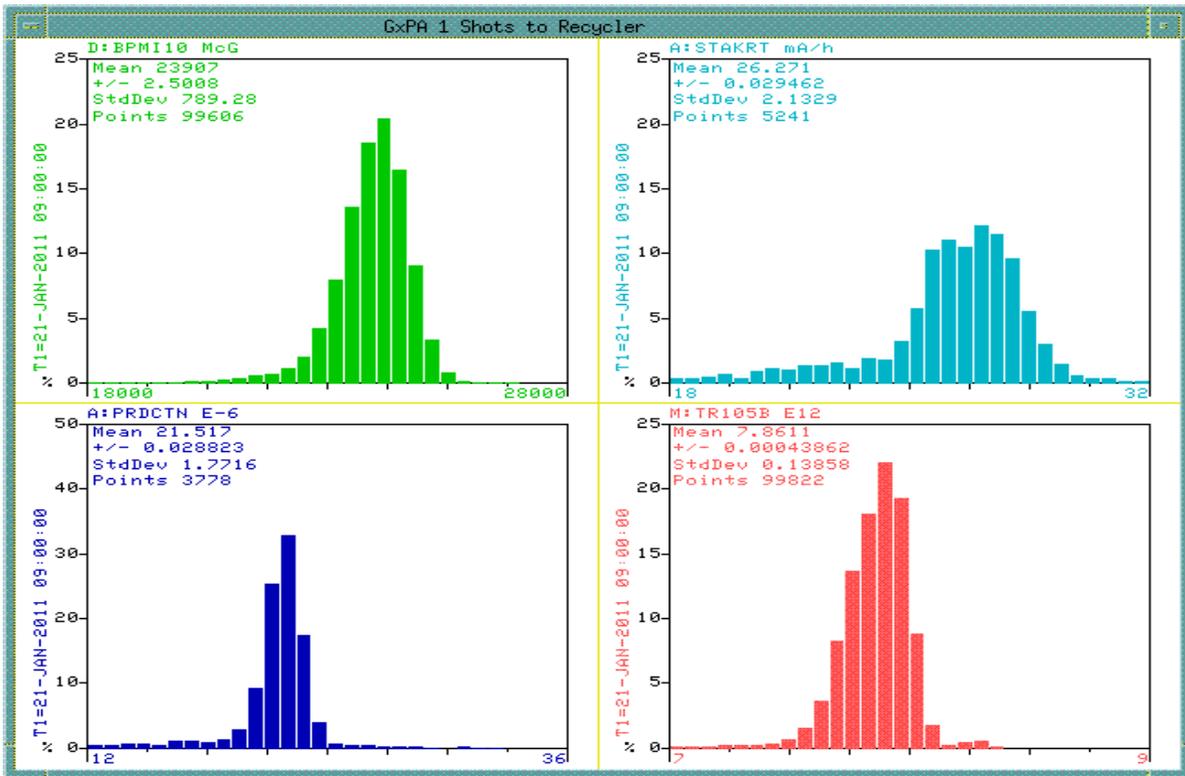
Accelerators (72.0 hrs.)



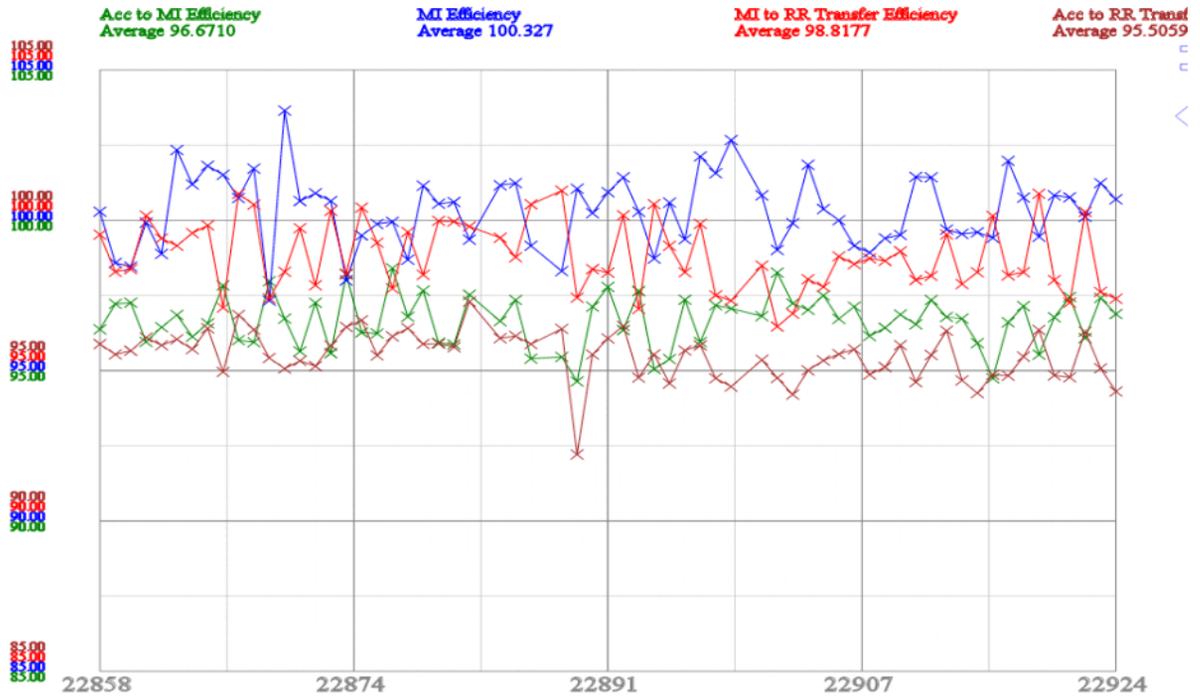
Fri Jan 21 07:00:00 CST 2011 -- Mon Jan 24 07:00:00 CST 2011



— A:IBEAM
 • A:STCKRT
 • Hourly Rate
 • M:TOR109
 • A:PRDCTN
 — A:EMT3HN
 — A:EMT3VN
— Ave Time between \$81's



Acc->Rec Table Plotter



Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number _20_A:1 BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A:1 BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R: BEAMS (R:BEA ME0[0]), E10	Column 24 Number _23_R: BEAM (R:BEA ME0[1]), post refer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizont al Emittanc e	Column 6 Number _5_Acc Vertical Emittanc e	Column 8 Number _7_Acc Longitu dinal Emittanc e	
Totals =>				1644.80			1567.62	95.31%	96.64%	96.92%	93.66%	201	65	2.7382	1.9537	1.9743	
Daily Average =>				548.27			522.54					67	22				
22925	Monday, January 24, 2011	7:57	27.18	7.18	22.70	323.92	345.26	21.61	95.16%	95.01%	93.97%	89.28%	3	1	2.656	1.963	1.984
22924	Monday, January 24, 2011	7:07	27.09	7.53	22.29	303.80	324.58	21.04	94.39%	96.65%	97.28%	94.03%	3	1	2.755	1.858	2.009
22923	Monday, January 24, 2011	6:16	27.47	7.36	22.86	282.79	304.36	21.80	95.37%	97.24%	98.52%	95.79%	3	1	2.777	1.924	1.99
22922	Monday, January 24, 2011	5:23	29.09	7.49	24.07	260.55	283.41	23.16	96.22%	96.41%	96.27%	92.81%	3	1	2.627	1.886	1.973
22921	Monday, January 24, 2011	4:32	32.62	8.92	26.43	238.15	261.01	25.08	94.89%	97.60%	98.37%	96.01%	3	1	2.87	1.984	1.969
22920	Monday, January 24, 2011	3:25	26.59	7.18	22.19	215.69	236.63	21.02	94.74%	96.64%	97.52%	94.25%	3	1	2.693	1.807	1.972
22919	Monday, January 24, 2011	2:36	26.64	7.49	21.93	195.31	215.96	21.08	96.12%	95.88%	95.96%	92.01%	3	1	2.748	1.951	1.984
22918	Monday, January 24, 2011	1:49	33.35	8.71	27.24	169.87	195.55	25.99	95.42%	97.05%	97.28%	94.41%	3	1	2.773	1.969	1.959
22917	Monday, January 24, 2011	0:45	28.37	7.66	23.49	148.20	170.21	22.27	94.81%	96.41%	97.13%	93.65%	3	1	2.813	1.998	1.981
22916	Sunday, January 23, 2011	23:51	26.59	7.14	22.19	127.49	148.49	21.13	95.21%	95.12%	94.58%	89.96%	3	1	2.777	1.954	1.983
22915	Sunday, January 23, 2011	23:04	32.57	9.09	26.19	103.18	127.76	24.74	94.46%	96.26%	96.36%	92.75%	3	1	2.834	2.235	1.987
22914	Sunday, January 23, 2011	22:07	36.92	9.87	29.68	75.51	103.40	28.15	94.87%	96.85%	96.86%	93.80%	3	1	2.908	2.192	1.972
22913	Sunday, January 23, 2011	20:28	26.89	7.61	21.99	54.79	75.83	21.15	96.16%	96.71%	96.30%	93.14%	3	1	2.737	2.012	2.008
22912	Sunday, January 23, 2011	19:37	25.68	7.08	21.36	34.58	54.90	20.48	95.87%	96.96%	98.53%	95.53%	3	1	2.637	2.011	2.012
22911	Sunday, January 23, 2011	18:58	43.31	11.52	34.37	2.37	34.77	32.54	94.67%	96.47%	97.62%	94.18%	3	1	3.126	2.323	1.955
22910	Sunday, January 23, 2011	17:09	25.33	6.77	21.26	174.99	195.17	20.34	95.68%	96.65%	96.27%	93.05%	3	1	2.556	1.899	2.002
22909	Sunday, January 23, 2011	16:16	26.72	6.37	22.97	153.51	175.26	21.94	95.53%	96.96%	96.40%	93.47%	3	1	2.628	1.828	1.965
22908	Sunday, January 23, 2011	15:21	26.18	6.52	22.36	132.66	153.80	21.25	95.06%	96.12%	95.13%	91.44%	3	1	2.64	1.911	1.986
22907	Sunday, January 23, 2011	14:28	25.73	6.64	21.72	112.18	132.88	20.82	95.82%	97.29%	96.52%	93.91%	3	1	2.554	1.816	2
22906	Sunday, January 23, 2011	13:36	28.24	6.82	24.10	89.55	112.38	23.06	95.66%	97.10%	96.80%	93.99%	3	1	2.574	1.939	1.985
22905	Sunday, January 23, 2011	12:36	26.54	6.30	22.82	68.16	89.76	21.81	95.57%	97.46%	98.02%	95.53%	3	1	2.631	1.853	1.981
22904	Sunday, January 23, 2011	11:37	26.86	6.98	22.61	46.93	68.28	21.50	95.08%	97.70%	99.27%	96.99%	3	1	2.747	2.002	1.993
22903	Sunday, January 23, 2011	10:31	47.76	8.31	43.34	6.73	47.12	40.76	94.05%	97.07%	96.59%	93.76%	4	1	3.148	2.22	1.959
22902	Sunday, January 23, 2011	8:36	26.23	7.24	21.77	350.37	370.47	20.67	94.93%	97.99%	97.13%	95.18%	3	1	2.65	2.042	2.007
22901	Sunday, January 23, 2011	7:43	27.67	6.96	23.43	329.77	351.56	22.26	95.03%	96.62%	97.43%	94.13%	3	1	2.667	1.968	1.98
22899	Sunday, January 23, 2011	5:51	26.88	6.80	22.80	287.67	309.06	21.57	94.60%	97.13%	99.38%	96.53%	3	1	2.589	1.825	1.98
22898	Sunday, January 23, 2011	4:48	25.22	6.19	21.67	267.99	288.37	20.60	95.04%	97.28%	98.60%	95.92%	3	1	2.534	1.884	1.985
22897	Sunday, January 23, 2011	3:56	27.56	6.38	23.26	246.63	268.58	22.32	95.97%	95.98%	98.05%	94.11%	3	1	2.541	1.819	1.986
22896	Sunday, January 23, 2011	3:04	26.25	7.27	21.76	226.62	247.15	20.87	95.91%	97.57%	97.45%	95.08%	3	1	2.669	2.051	2
22895	Sunday, January 23, 2011	2:16	26.97	7.53	22.23	206.05	227.00	21.09	94.88%	95.50%	96.50%	92.16%	3	1	2.706	2.038	2.006
22894	Sunday, January 23, 2011	1:26	26.92	7.50	22.18	185.47	206.37	21.22	95.67%	95.55%	94.74%	90.52%	3	1	2.805	2.039	1.999
22893	Sunday, January 23, 2011	0:37	28.38	7.74	23.42	163.77	185.80	22.18	94.73%	97.55%	97.88%	95.48%	3	1	2.79	2.002	2.015
22892	Saturday, January 22, 2011	23:45	27.63	7.51	22.93	142.19	164.01	22.14	96.58%	96.94%	98.00%	95.00%	3	1	2.704	1.997	1.997
22891	Saturday, January 22, 2011	22:51	27.60	7.53	22.79	120.92	142.50	21.86	95.92%	97.40%	98.49%	95.93%	3	1	2.686	2.023	2.002
22890	Saturday, January 22, 2011	22:02	31.31	8.27	25.80	96.88	121.18	24.66	95.57%	96.82%	96.64%	93.57%	3	1	2.753	2.044	1.966
22889	Saturday, January 22, 2011	21:04	29.93	12.35	102.43	6.54	97.68	93.83	91.60%	94.42%	95.25%	89.94%	6	1	4.446	2.729	1.707

22888	Saturday, January 22, 2011	16:15	26.27	6.38	22.55	363.30	384.57	21.74	96.39%	95.71%	93.89%	89.86%	3	1	2.544	1.977	1.986
22886	Saturday, January 22, 2011	14:28	25.88	6.40	22.14	322.52	343.51	21.28	96.12%	95.98%	95.92%	92.07%	3	1	2.539	1.885	1.984
22885	Saturday, January 22, 2011	13:34	26.22	6.51	22.38	301.99	323.24	21.50	96.06%	97.41%	98.55%	96.00%	3	1	2.53	1.913	1.982
22884	Saturday, January 22, 2011	12:41	25.85	6.47	22.08	281.63	302.61	21.22	96.11%	96.98%	97.37%	94.43%	3	1	2.7	1.891	1.981
22882	Saturday, January 22, 2011	7:37	24.14	0.74	23.39	240.44	262.79	22.70	97.06%	97.48%	96.91%	94.47%	3	1	1.219	0.167	1.841
22881	Saturday, January 22, 2011	6:49	28.52	7.86	23.42	218.77	241.00	22.43	95.79%	96.33%	96.99%	93.43%	3	1	2.747	1.928	1.994
22880	Saturday, January 22, 2011	5:56	27.20	7.29	22.67	197.66	219.19	21.75	95.95%	96.09%	96.55%	92.78%	3	1	2.804	1.948	1.983
22879	Saturday, January 22, 2011	5:06	27.05	7.29	22.57	176.66	198.08	21.65	95.91%	97.46%	98.91%	96.40%	3	1	2.823	1.85	1.977
22878	Saturday, January 22, 2011	4:14	27.94	6.96	23.73	154.48	177.06	22.85	96.28%	96.95%	96.05%	93.11%	3	1	2.678	1.787	1.956
22877	Saturday, January 22, 2011	3:20	27.74	7.56	22.96	133.03	154.82	22.07	96.14%	97.77%	98.21%	96.02%	3	1	2.784	1.986	1.985
22876	Saturday, January 22, 2011	2:26	26.96	7.37	22.34	112.02	133.24	21.32	95.45%	96.41%	96.38%	92.92%	3	1	2.773	2.002	2.012
22875	Saturday, January 22, 2011	1:36	27.27	7.43	22.63	90.64	112.15	21.83	96.49%	96.32%	95.85%	92.32%	3	1	2.798	2.003	1.995
22874	Saturday, January 22, 2011	0:46	27.79	7.65	22.91	69.07	90.85	22.04	96.21%	98.31%	96.63%	95.00%	3	1	2.832	2.121	1.998
22873	Friday, January 21, 2011	23:52	25.76	7.43	21.82	48.41	69.19	20.92	95.90%	96.18%	97.25%	93.54%	3	1	2.728	1.993	1.998
22872	Friday, January 21, 2011	23:04	46.45	8.76	41.69	9.58	48.66	39.54	94.83%	97.17%	97.57%	94.82%	4	1	3.199	2.242	1.92
22871	Friday, January 21, 2011	21:22	25.87	7.33	21.32	362.23	382.10	20.38	95.60%	96.55%	97.03%	93.68%	3	1	2.729	1.936	1.998
22870	Friday, January 21, 2011	20:34	25.62	7.01	21.37	343.44	363.44	20.38	95.36%	96.91%	99.97%	96.88%	3	1	2.713	1.896	1.99
22869	Friday, January 21, 2011	19:42	25.74	6.86	21.64	324.17	344.49	20.64	95.41%	97.99%	96.10%	94.17%	3	1	2.674	1.926	1.97
22868	Friday, January 21, 2011	18:50	26.98	7.22	22.50	303.80	325.01	21.70	96.44%	96.48%	97.40%	93.97%	3	1	2.739	1.819	1.986
22867	Friday, January 21, 2011	18:00	25.84	7.19	21.47	284.23	304.52	20.77	96.75%	96.23%	96.58%	92.94%	3	1	2.833	1.894	1.987
22866	Friday, January 21, 2011	17:07	25.35	6.11	21.92	264.10	284.85	20.90	95.33%	97.36%	98.47%	95.87%	3	1	2.593	1.789	1.933
22865	Friday, January 21, 2011	16:17	27.40	6.98	23.15	242.77	264.77	22.30	96.34%	96.55%	97.83%	94.45%	3	1	2.669	1.848	1.949
22864	Friday, January 21, 2011	15:23	30.11	7.28	25.48	219.27	243.33	24.39	95.74%	96.27%	97.37%	93.74%	3	1	2.632	1.915	1.948
22863	Friday, January 21, 2011	14:19	29.78	6.87	25.56	195.62	219.86	24.50	95.85%	96.79%	98.53%	95.36%	3	1	2.626	1.949	1.938
22862	Friday, January 21, 2011	13:10	38.32	6.46	35.87	162.34	196.12	34.30	95.62%	96.83%	95.79%	92.75%	4	1	2.905	2.021	1.956
22861	Friday, January 21, 2011	11:48	29.43	7.21	24.88	139.12	162.77	23.91	96.13%	95.99%	95.91%	92.06%	3	1	2.654	1.993	1.952
22860	Friday, January 21, 2011	10:46	28.59	7.11	24.12	116.82	139.50	23.06	95.61%	97.40%	96.09%	93.60%	3	1	3.364	2.456	1.955
22859	Friday, January 21, 2011	9:43	31.92	8.03	26.56	92.00	117.12	25.39	95.59%	96.82%	95.76%	92.72%	3	1	2.788	1.982	1.954
22858	Friday, January 21, 2011	8:36	27.39	7.01	23.07	70.39	92.27	22.16	96.05%	96.96%	96.92%	93.97%	3	1	2.619	1.937	1.984

GxPB 1: CAMAC Crate Status

01/24/11 0742

RESPONSE FROM EACH SLOT TO CAMAC A(0)F(6) IS DISPLAYED
COMMERCIAL CAMAC CARDS SHOWN IN CYAN

SLOT 4

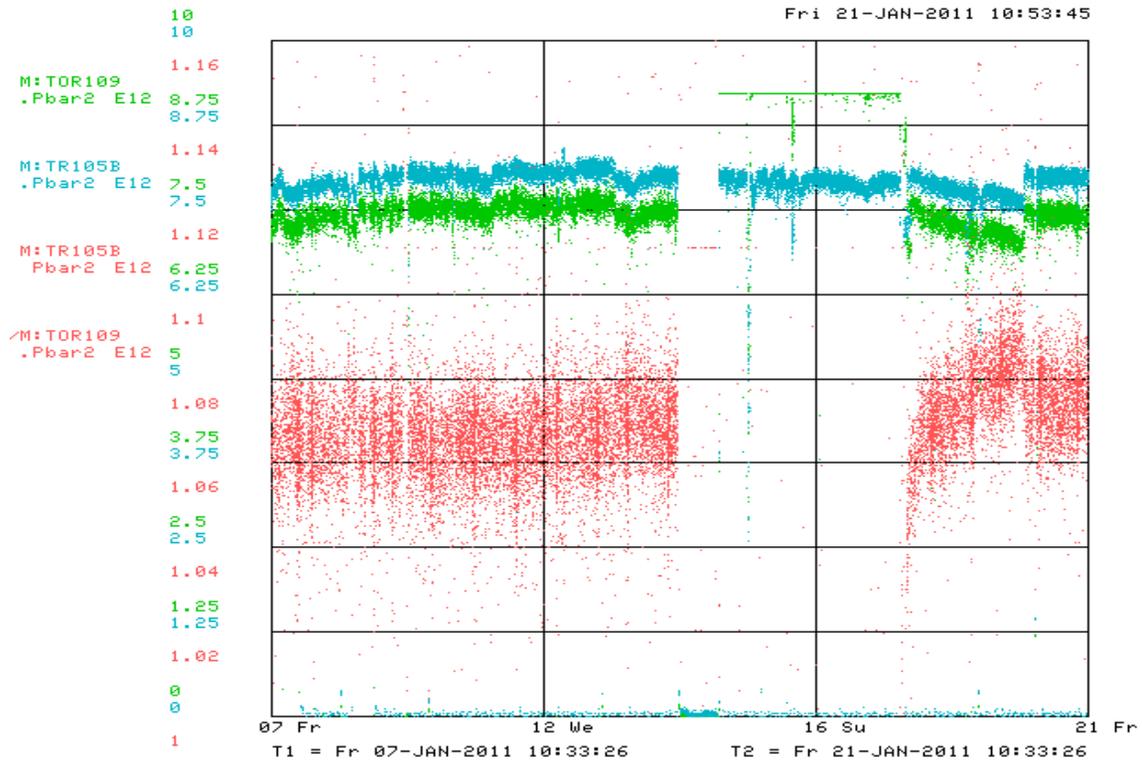
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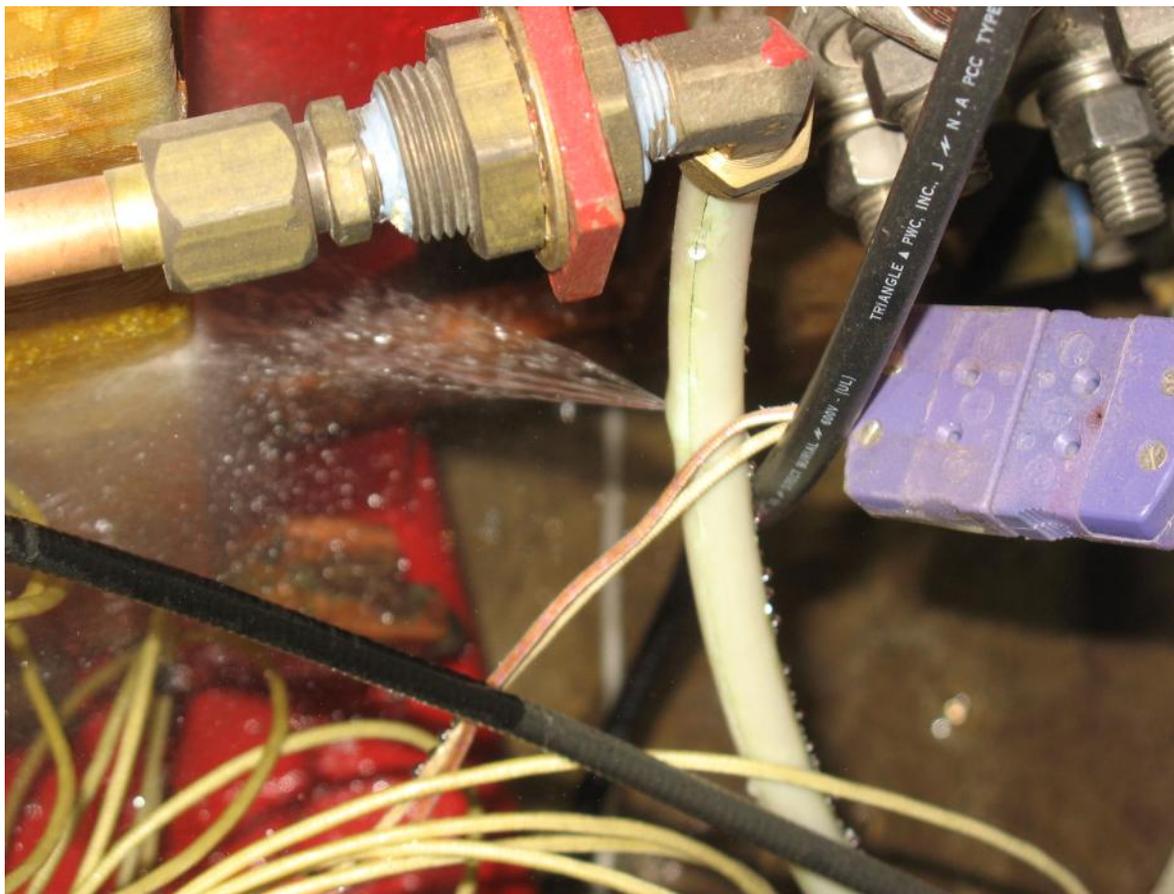
Find All Names
Prev Next
PWR TEMP ON OFF

D:08723 D:08716 D:08717 D:08722 D:08705

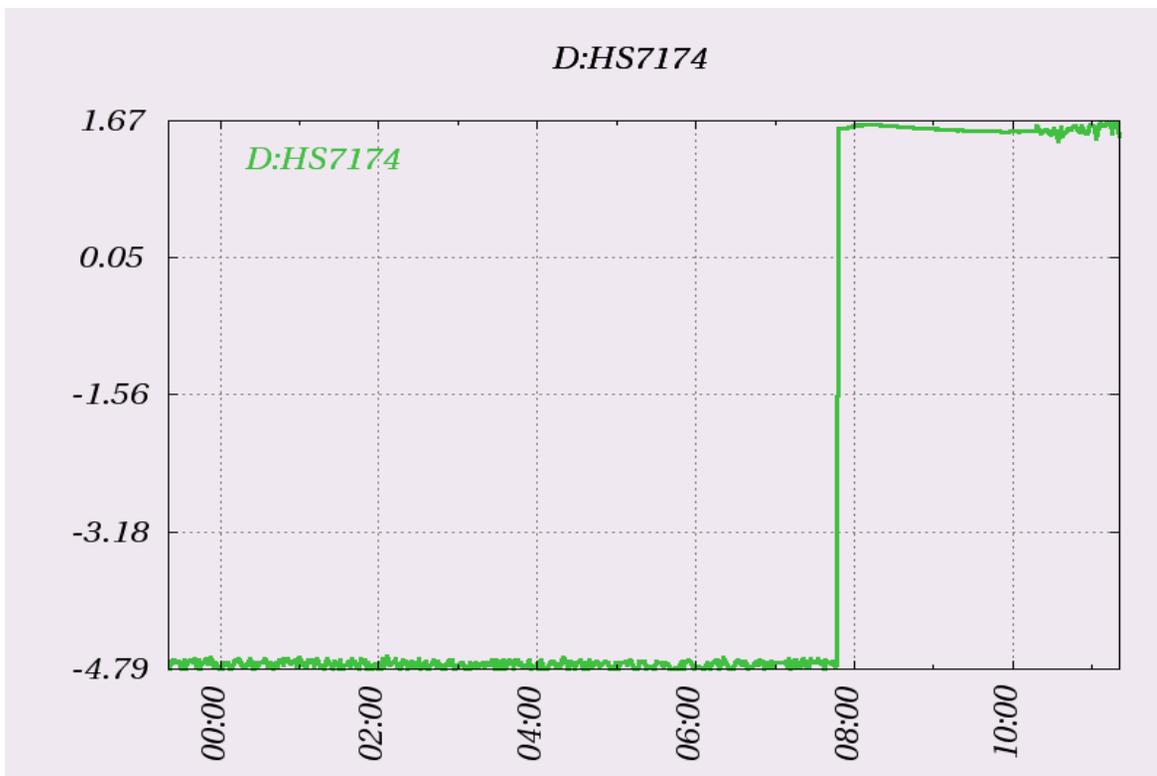
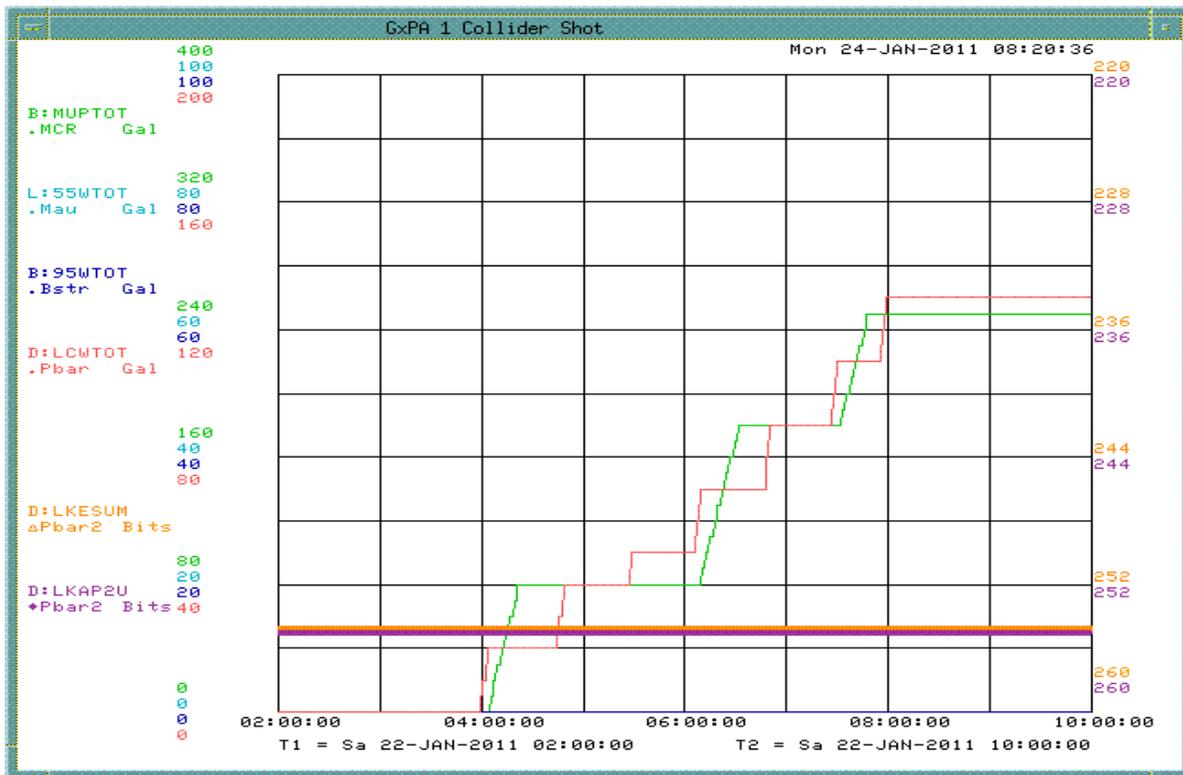
Slot 4 O54 card changed



Tor109 scaling.



A6Q10 LCW leak



D:HS7174 went to a different value after turning on

