

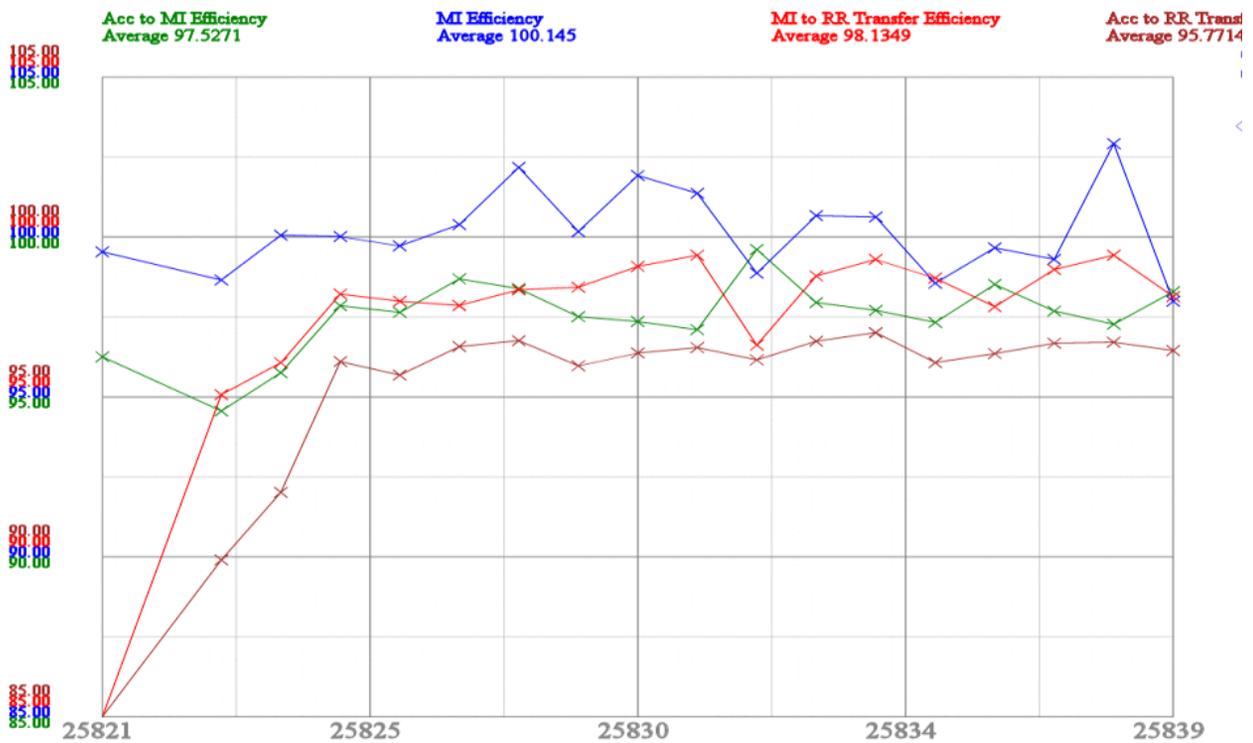
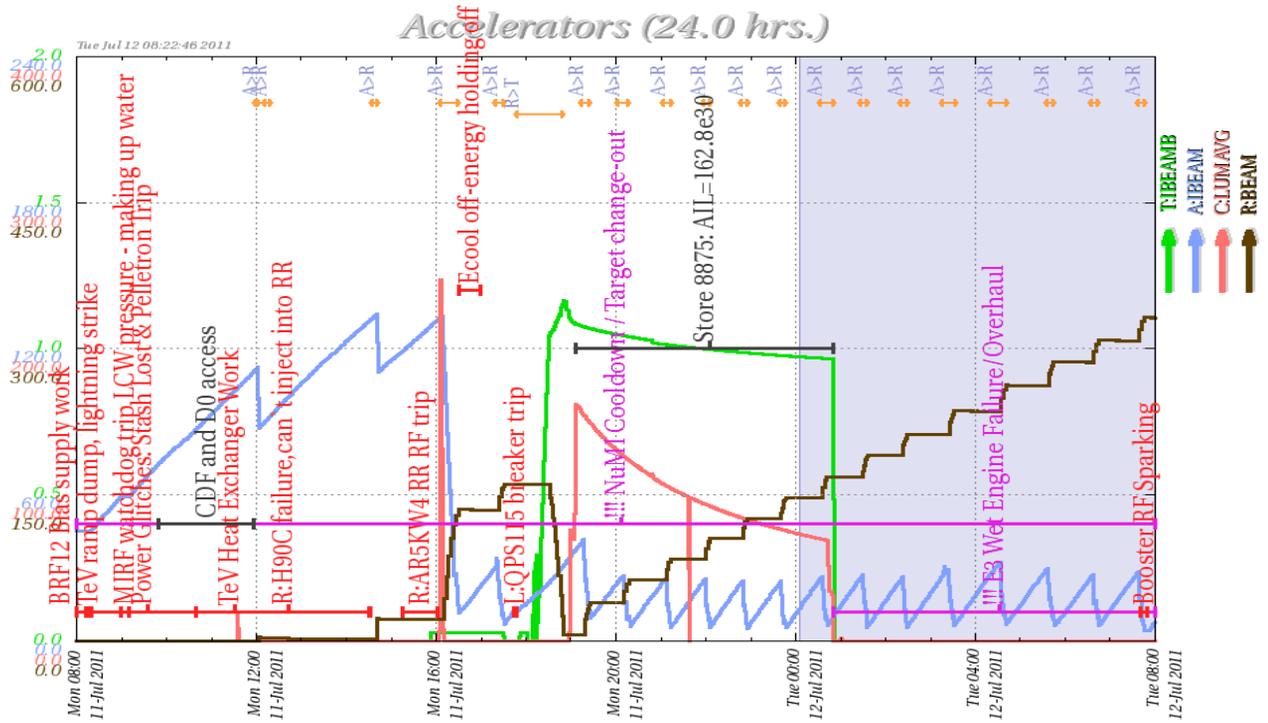
2011-07-12 Tuesday Morning Notes

Tuesday, July 12, 2011
8:22 AM

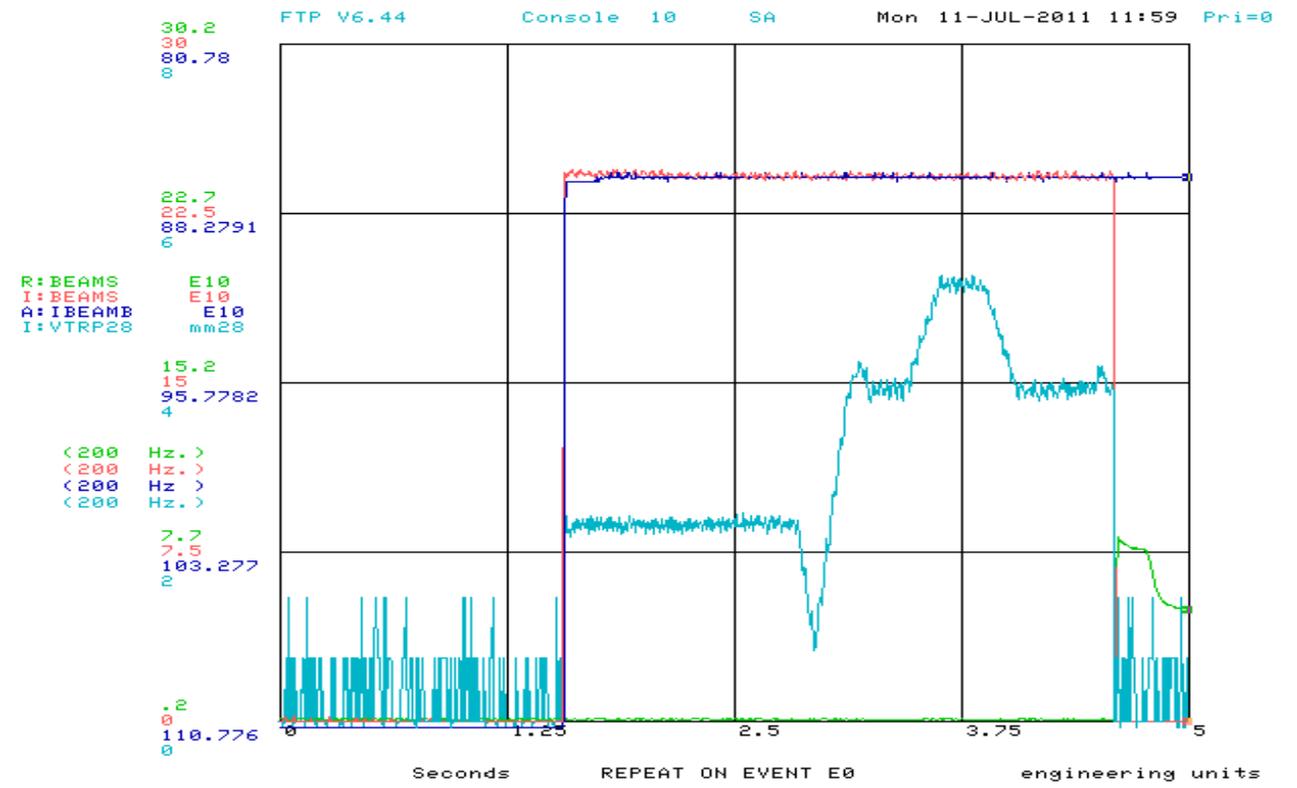
Operational Notes

- We had an LCW leak develop on Sunday morning. Leak rate is steady at approximately 100gal/day.

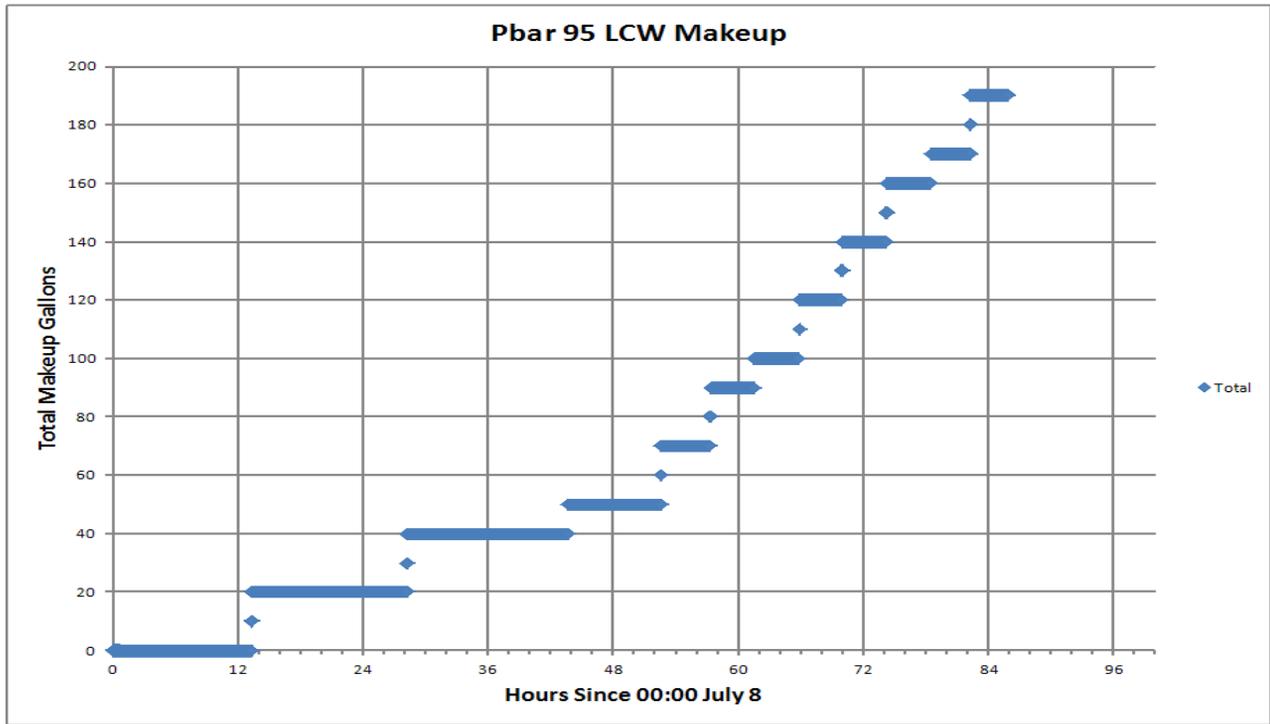
Plots



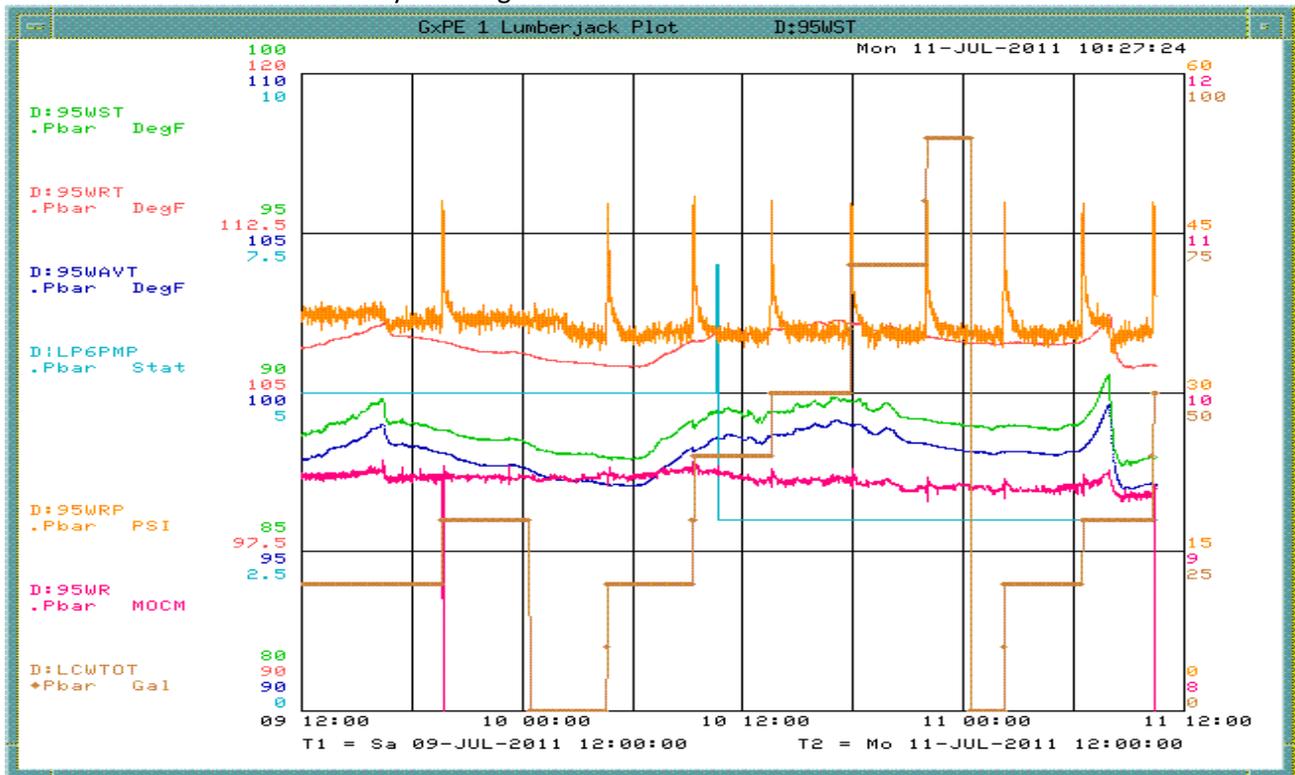
Column 1 Number 0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number 20_A-I BEAMB sampled on \$91 (A.BEA M7), E10	Column 22 Number 21_A-I BEAMB sampled on \$94 (A.BEA M9), E10	Unstacked (mA)	Column 23 Number 22_R-B EAMS (R.BEA ME0[0]) prefer E10	Column 24 Number 23_R-B EAM (R.BEA ME0[1]) post fer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to M2 Eff	Acc to MI * Acc to M2 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 =>				552.38			507.07	91.80%	97.06%	97.04%	94.19%	54	18	5.4326	3.8133	1.9414	
Daily Average =>				552.38			507.07						54	18			
25839	Tuesday, July 12, 2011	7:38	28.84	4.36	25.71	308.03	332.37	24.74	96.23%	98.27%	96.65%	94.98%	3	1	4.117	2.156	1.948
25838	Tuesday, July 12, 2011	6:37	27.72	6.29	24.07	286.08	309.07	23.27	96.69%	97.67%	99.31%	97.00%	3	1	4.499	2.781	2.032
25837	Tuesday, July 12, 2011	5:37	30.34	6.49	26.30	261.91	286.95	25.41	96.60%	97.20%	97.11%	94.39%	3	1	4.255	3.258	2.008
25836	Tuesday, July 12, 2011	4:33	32.70	6.80	28.35	235.74	262.76	27.33	96.41%	98.35%	98.09%	96.47%	3	1	4.698	3.498	2.019
25835	Tuesday, July 12, 2011	3:25	29.94	6.22	25.85	211.78	236.42	24.90	96.31%	97.56%	96.56%	94.20%	3	1	4.947	3.21	2.035
25834	Tuesday, July 12, 2011	2:23	26.47	5.59	22.64	190.58	212.30	21.92	96.82%	97.95%	98.12%	96.12%	3	1	4.328	2.976	2.087
25833	Tuesday, July 12, 2011	1:30	27.47	5.71	23.58	168.35	190.96	22.80	96.71%	98.37%	97.69%	96.09%	3	1	4.338	3.16	2.072
25832	Tuesday, July 12, 2011	0:36	27.16	6.25	23.04	146.60	168.64	22.16	96.19%	98.66%	98.43%	97.11%	3	1	4.492	3.015	2.061
25831	Monday, July 11, 2011	23:40	24.83	5.08	21.66	125.97	146.80	20.92	96.59%	97.51%	98.29%	95.85%	3	1	4.215	2.537	2.033
25830	Monday, July 11, 2011	22:49	25.16	5.44	21.67	105.36	126.12	20.89	96.40%	97.73%	99.13%	96.88%	3	1	4.121	2.505	2.071
25829	Monday, July 11, 2011	21:59	25.88	5.64	22.33	84.19	105.50	21.45	96.05%	97.90%	97.58%	95.54%	3	1	4.49	2.863	2.057
25828	Monday, July 11, 2011	21:07	26.32	5.87	22.53	62.65	84.30	21.78	96.67%	98.25%	100.92%	99.16%	3	1	4.444	3.406	2.079
25827	Monday, July 11, 2011	20:11	27.69	6.02	24.18	39.58	62.77	23.33	96.46%	98.49%	98.44%	96.95%	3	1	4.641	3.083	2.052
25826	Monday, July 11, 2011	19:18	42.11	9.10	35.51	6.10	39.76	33.89	95.44%	97.45%	97.11%	94.63%	3	1	5.7	4.231	2.001
25825	Monday, July 11, 2011	17:23	32.14	6.73	27.83	134.51	161.00	26.74	96.08%	97.93%	97.50%	95.48%	3	1	4.911	3.695	2.044
25824	Monday, July 11, 2011	16:09	133.99	11.57	127.72	22.16	135.61	116.15	90.94%	95.12%	95.21%	90.56%	7	1	8.157	5.898	1.8
25823	Monday, July 11, 2011	14:41	134.43	110.18	24.25	1.88	23.68	21.80	89.90%	94.56%	93.29%	88.22%	1	1	11.867	8.651	1.207
25821	Monday, July 11, 2011	12:03	112.65	87.47	25.18	0.27	7.88	7.61	30.22%	96.25%	95.81%	92.22%	1	1	9.566	7.717	1.339



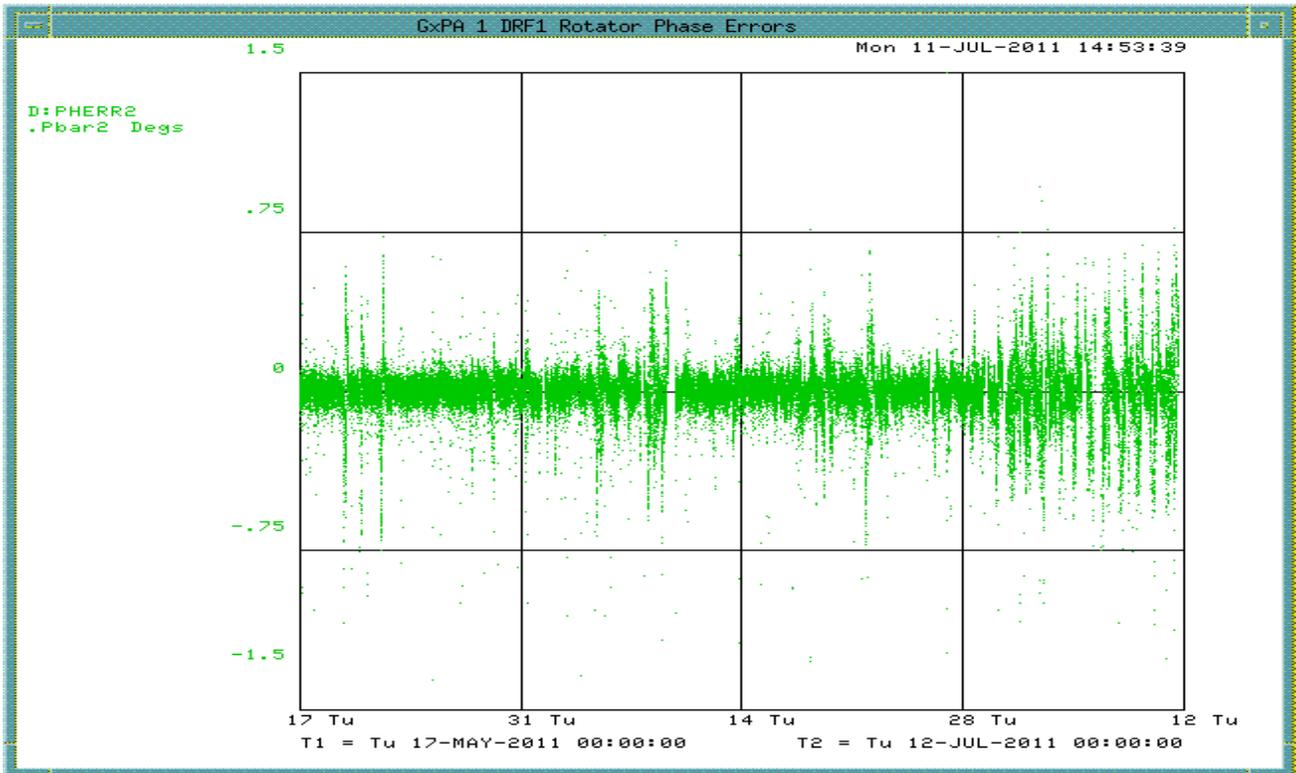
Set 25821 - transfer taken during R:H90C work results in poor transfer efficiency.



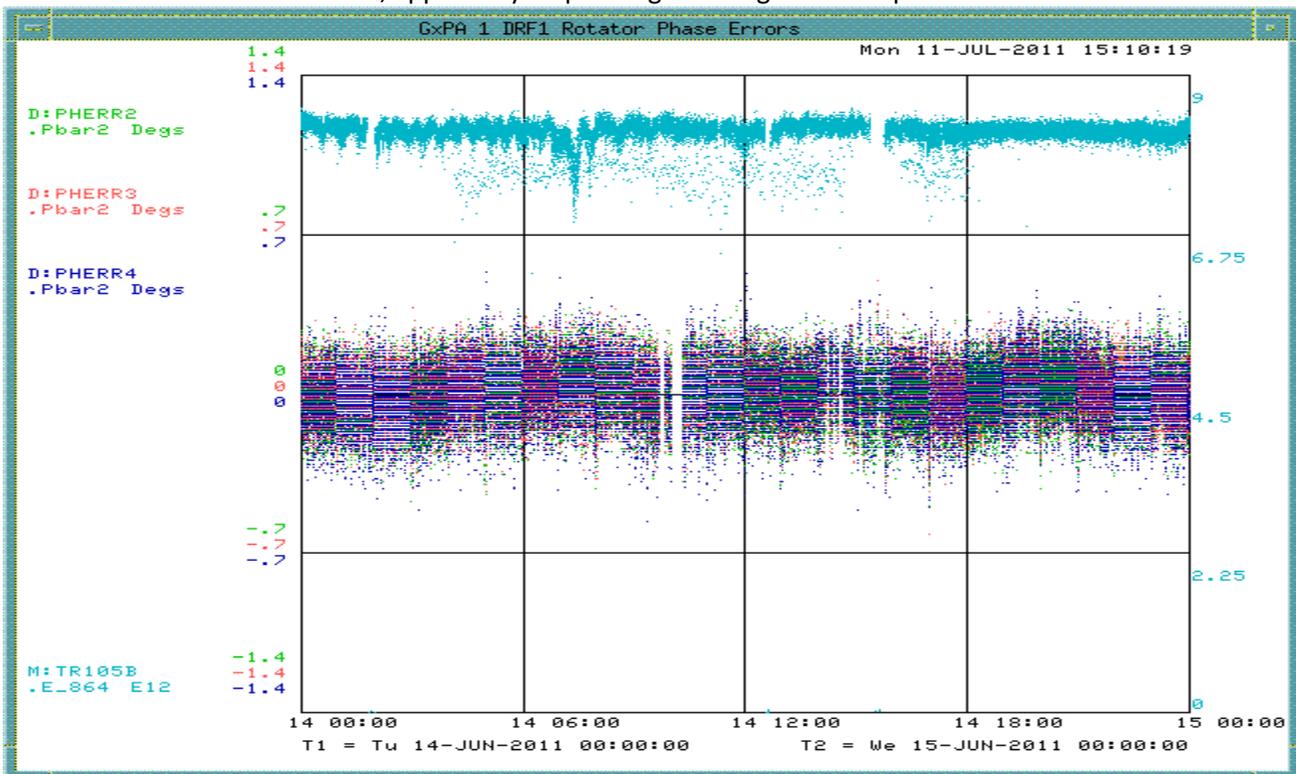
LCW leak starts sometime Sunday morning.



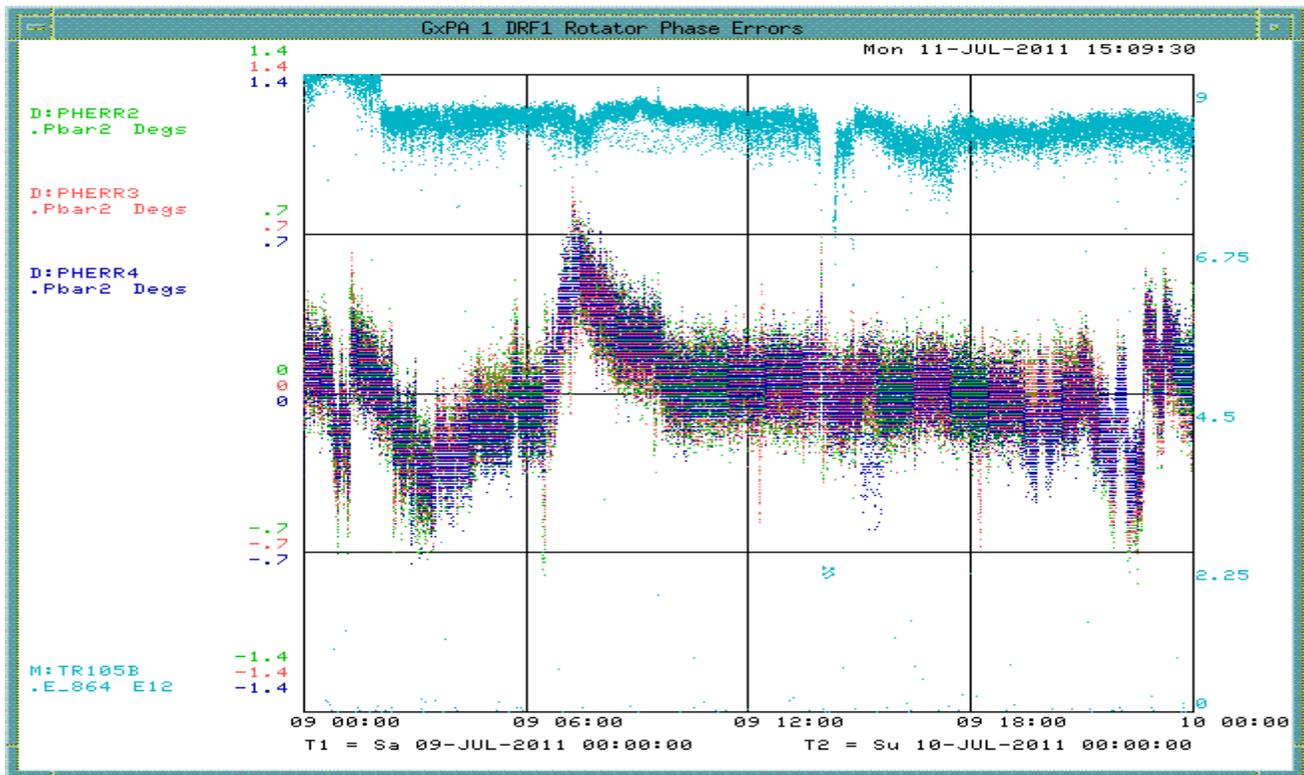
Switching from Pbar LCW pump 8 to 7 happened after the LCW leak started.



DRF1 phase regulation over the last 8 weeks. For the past two weeks or so, the phase errors on all stations have been more erratic, apparently responding to changes in the upstream beam conditions.



What the phases look like normally



What the phases look like now.