

2011-03-18 Friday Morning Notes

Friday, March 18, 2011

4:16 AM

On-call

- Friday: DVM
- Saturday: Vladimir
- Sunday: Keith
- Monday: Steve

Stacking and Transfers

- Stacked
 - 24 hours
 - Averaged 25.5mA/hr with a production of 21.8 pbars/Mp with 7.9 Tp on target.
 - If we take the good stacking period of from 2:30am until 6am overnight, we have 27.3mA/hr with an average production of 22.4 pbars/Mp with 8.22 Tp on target.
 - Week
 - Averaged 25.5mA/hr with a production of 21.8 pbars/Mp with 7.94 Tp on target
- Unstacked
 - 24 hours
 - 576E10 in 70 transfers over 22 sets with an average efficiency of 93%
 - Take out transfer #23716 from 113mA and all the transfers over 30mA and we are still only 94.1%
 - Week
 - Unstacked 3278E10 (468e10/day) in 377 transfers (54/day) in 121 sets (17/day) with an average efficiency of 89.4%
 - Take out all the bad transfers and transfers over 30mA and we only are 94.2% (normally 97%)

Operational Happenings

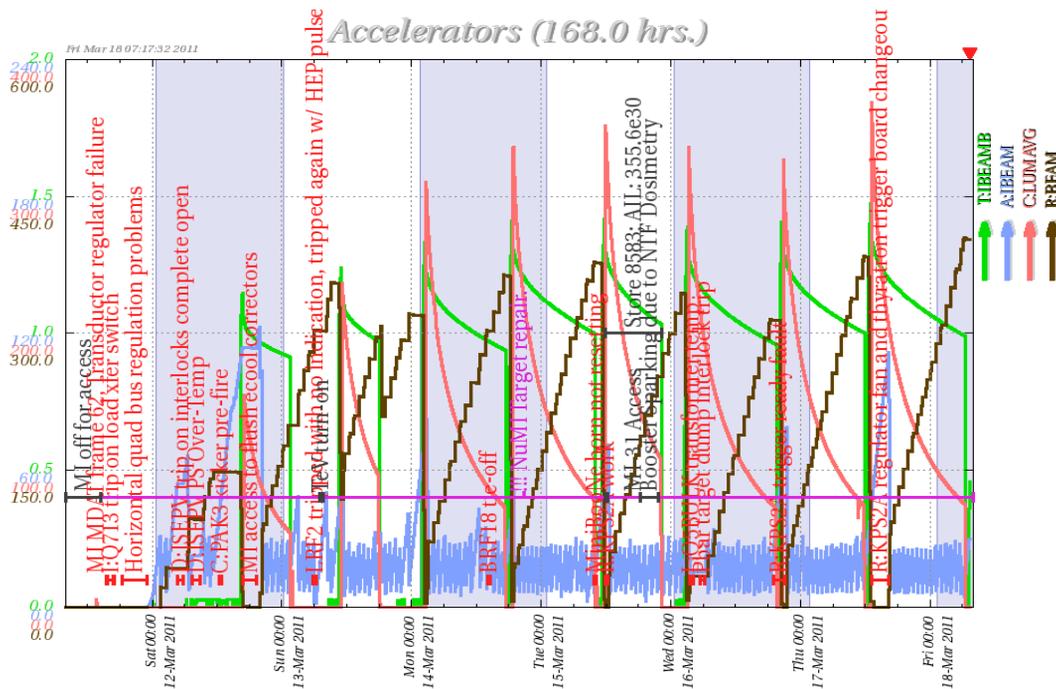
- Sequencer had some problems starting P207. CNSRUN fixed
- Remote make-up of dump water reservoir tank continues
 - Made-up 09:50 - 2"
 - Made-up 21:20 - 2"
 - About 2 gallons - Leak seems to be lessing slightly
- A:BS309 went through some unexpected variations during the day shift, but has settled down. I was actually running the shunt just a bit too hard and it settled closer to where we want it to run.
- D:EKIK output went to zero

Numbers

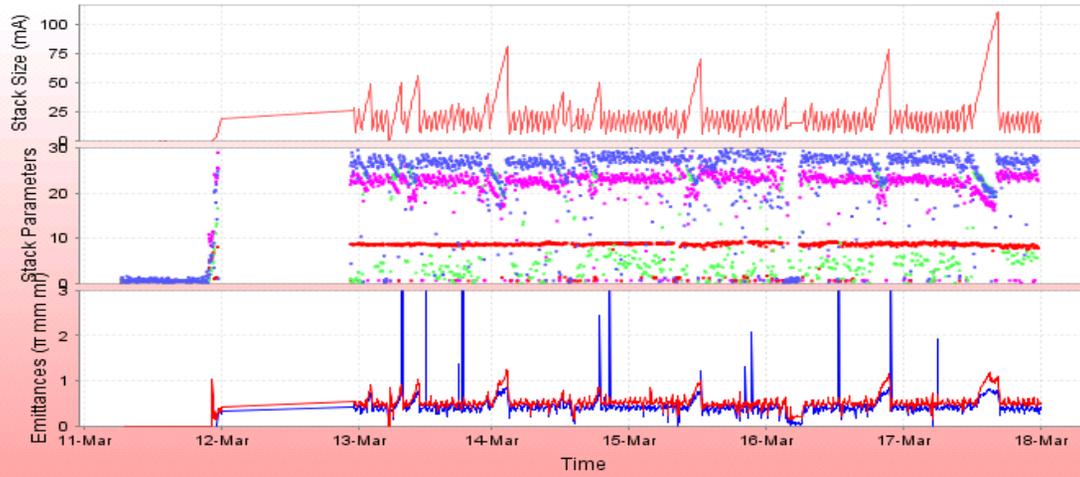
- 24 hours
 - Stacking
 - Pbars stacked: 578.60 E10
 - Time stacking: 23.76 Hr
 - Average stacking rate: 24.35 E10/Hr
 - Uptime
 - Number of pulses while in stacking mode: 35426
 - Number of pulses with beam: 34440
 - Fraction of up pulses was: 97.22%

- The uptime's effect on the stacking numbers
 - Corrected time stacking: 23.10 Hr
 - Possible average stacking rate: 25.05 E10/Hr
 - Could have stacked: 595.17 E10/Hr
 - Recycler Transfers
 - Pbars sent to the Recycler: 568.53 E10
 - Number of transfers : 69
 - Number of transfer sets: 22
 - Average Number of transfer per set: 3.14
 - Time taken to shoot including reverse proton tuneup: 00.24 Hr
 - Transfer efficiency: 92.67%
 - Other Info
 - Average POT : 7.88 E12
 - Average production: 21.33 pbars/E6 protons
- Week

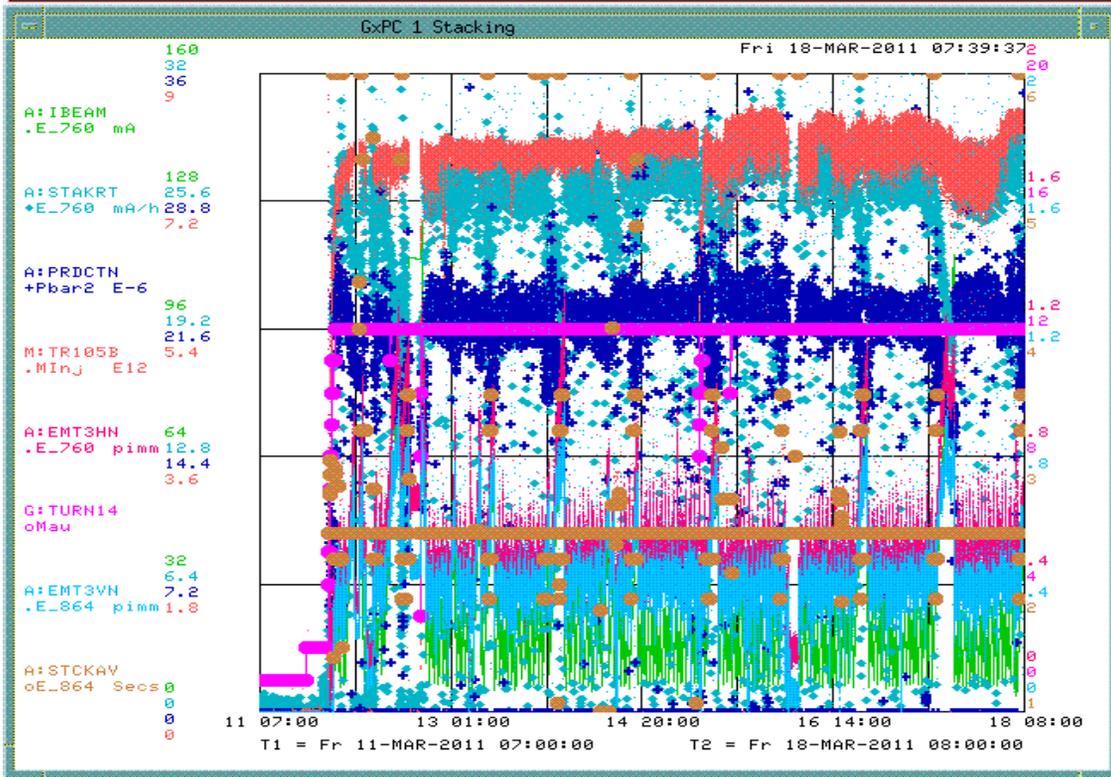
Week Plots

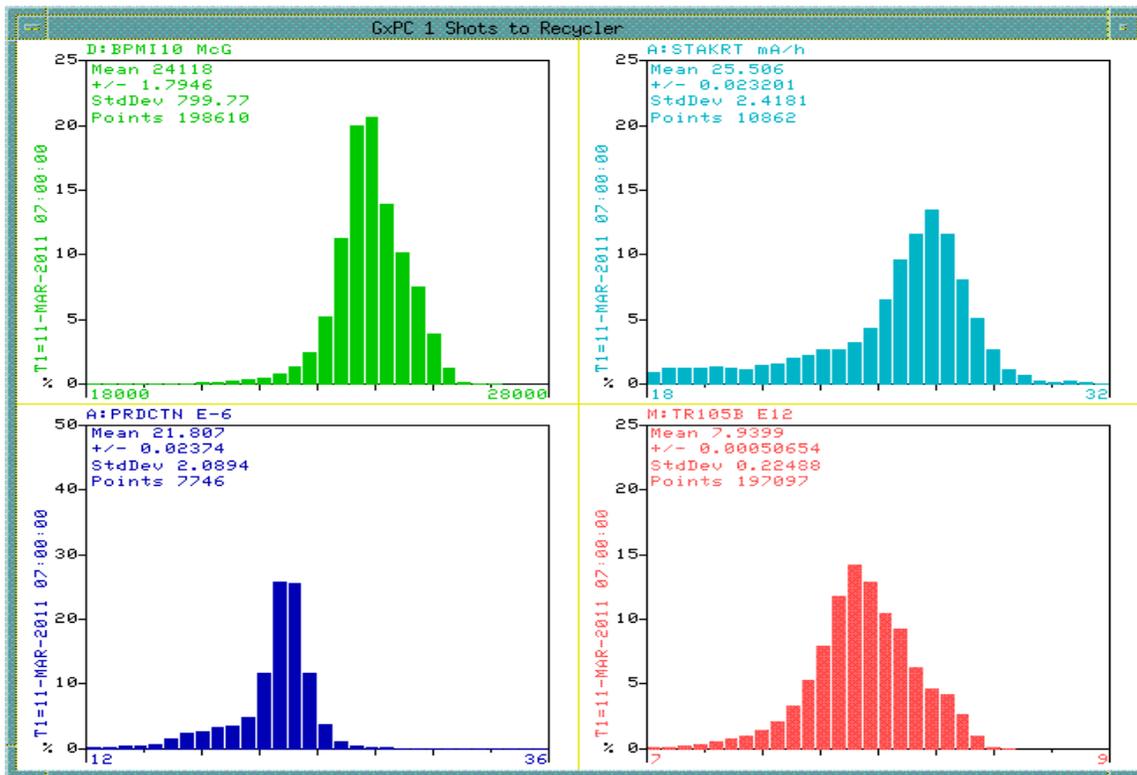


Fri Mar 11 07:00:00 CST 2011 -- Fri Mar 18 07:00:00 CDT 2011

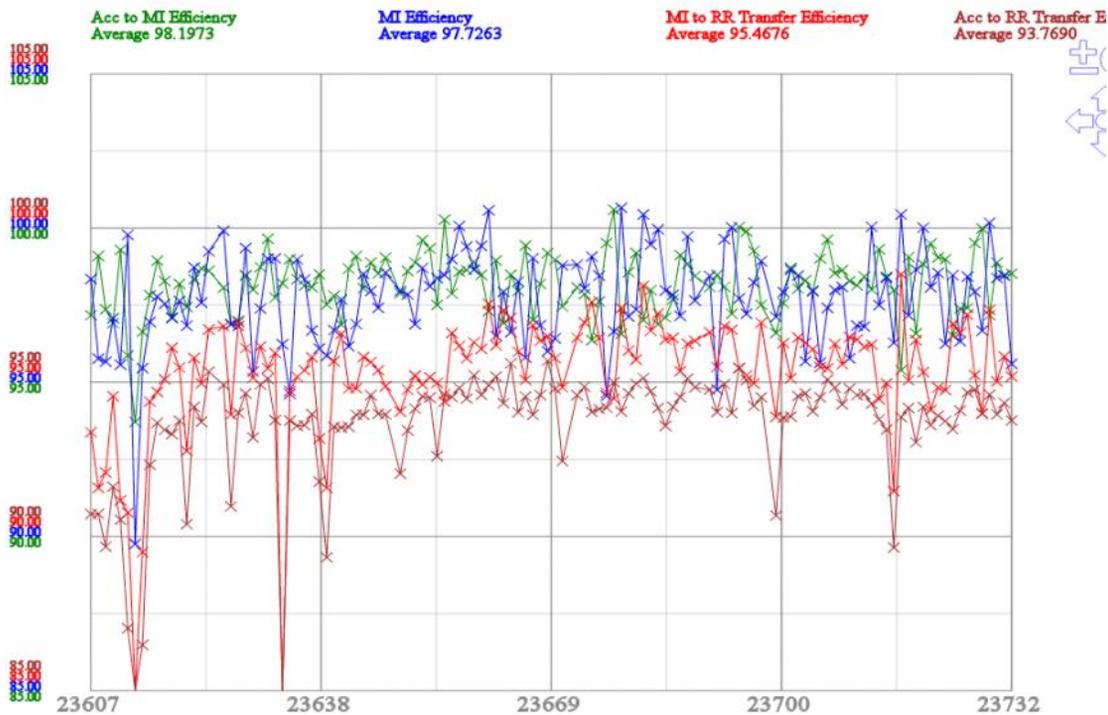


— A:IBEAM • A:STCKRT • Hourly Rate • M:TOR109 • A:PRDCTN — A:EMT3HN — A:EMT3VN
 — Ave Time between \$81's



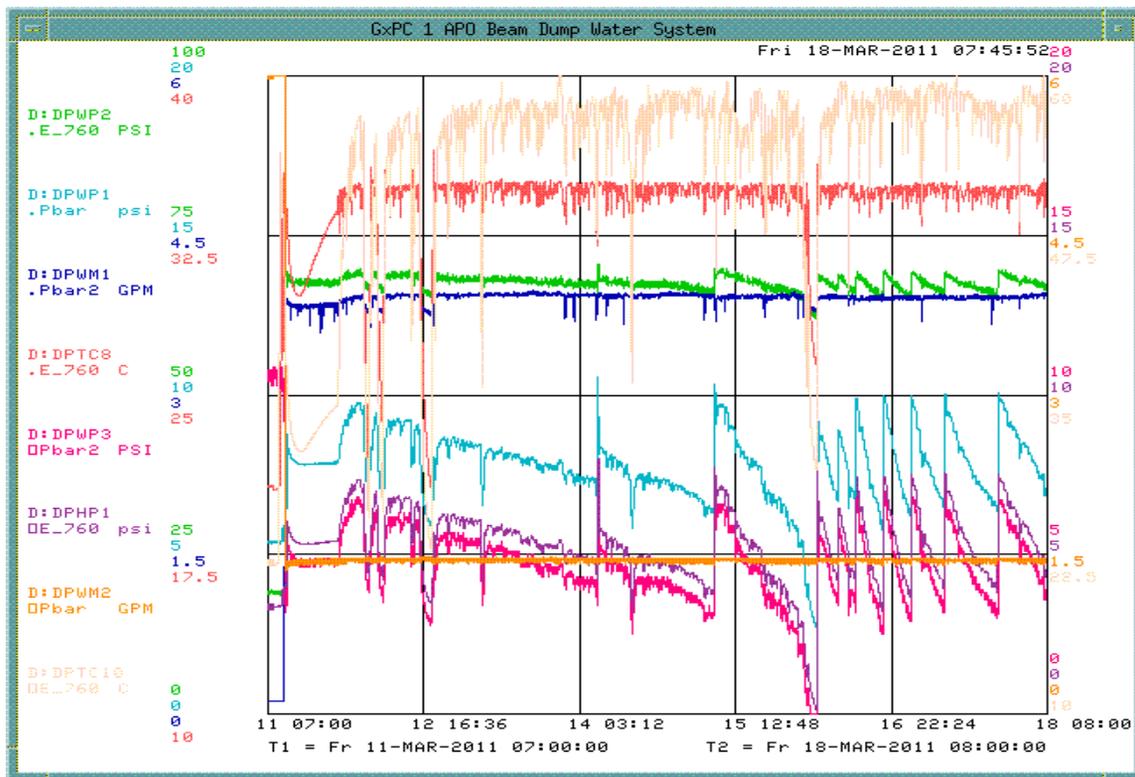


Acc->Rec Table Plotter

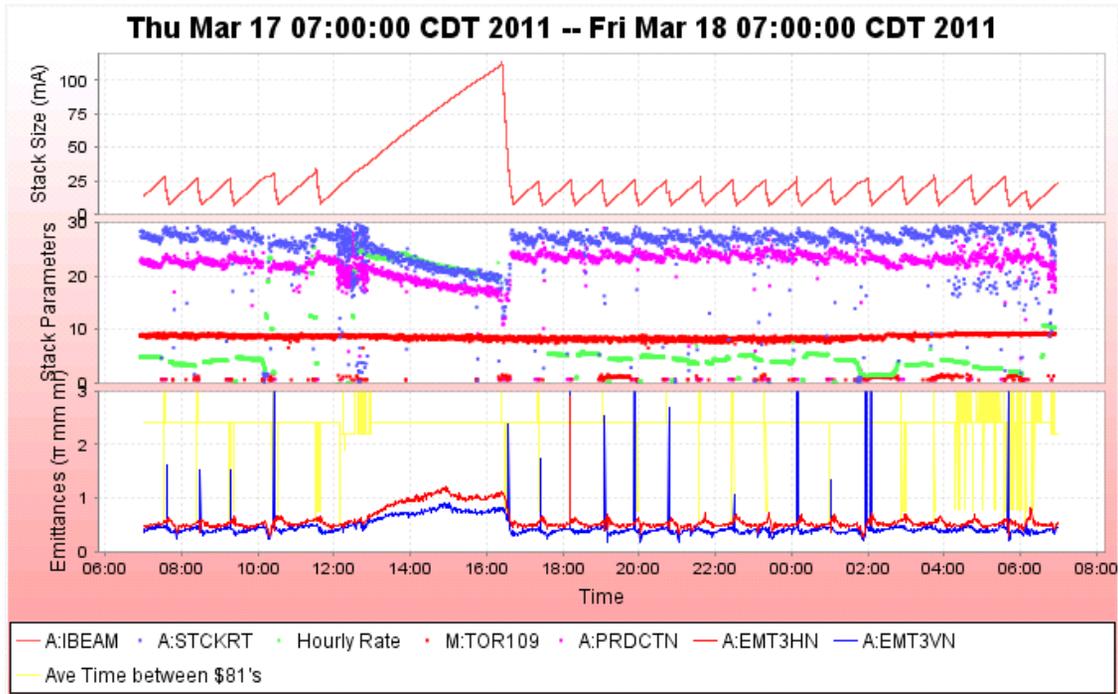
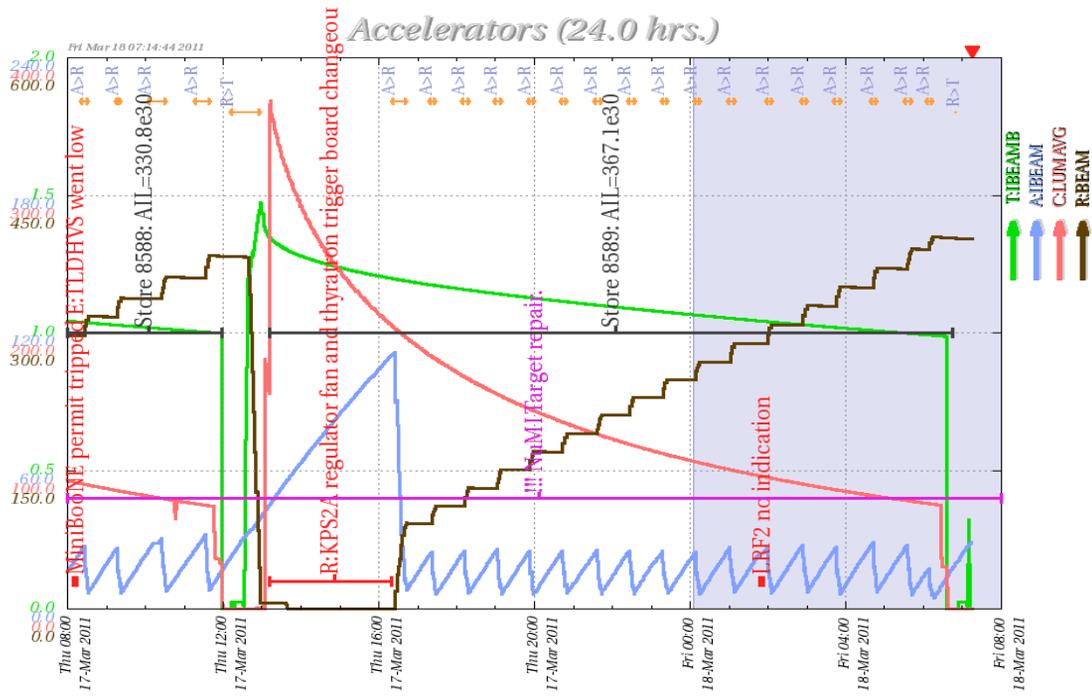


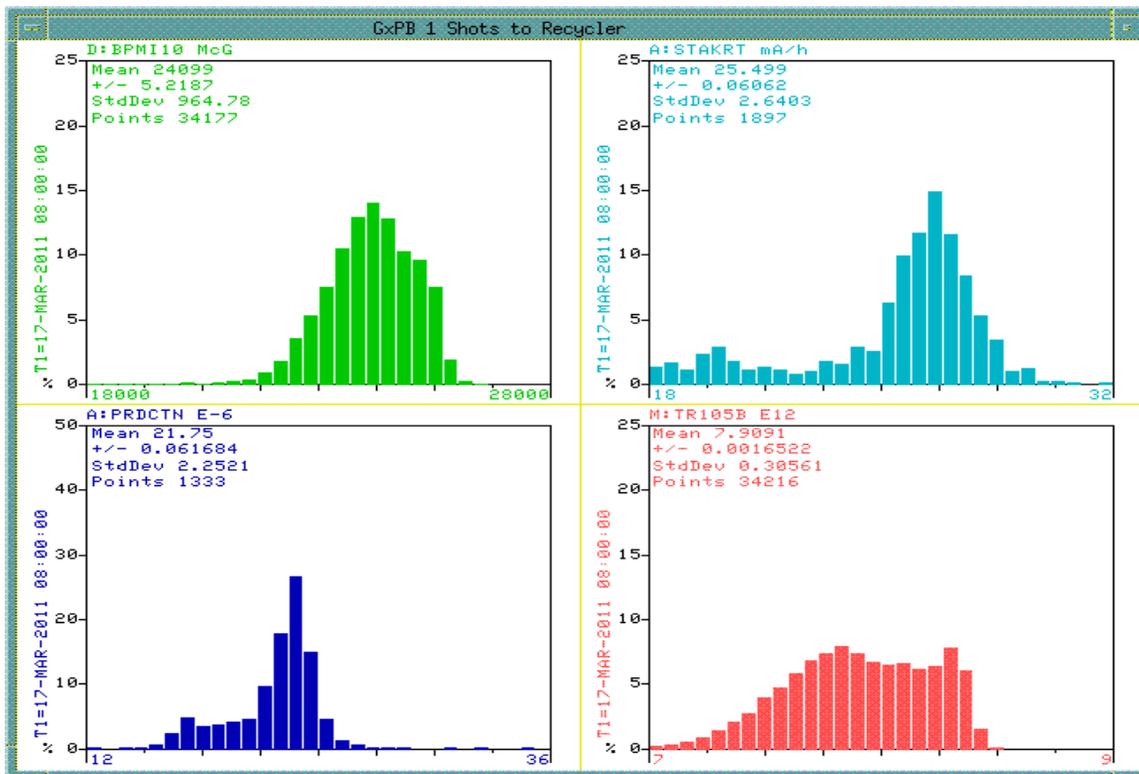
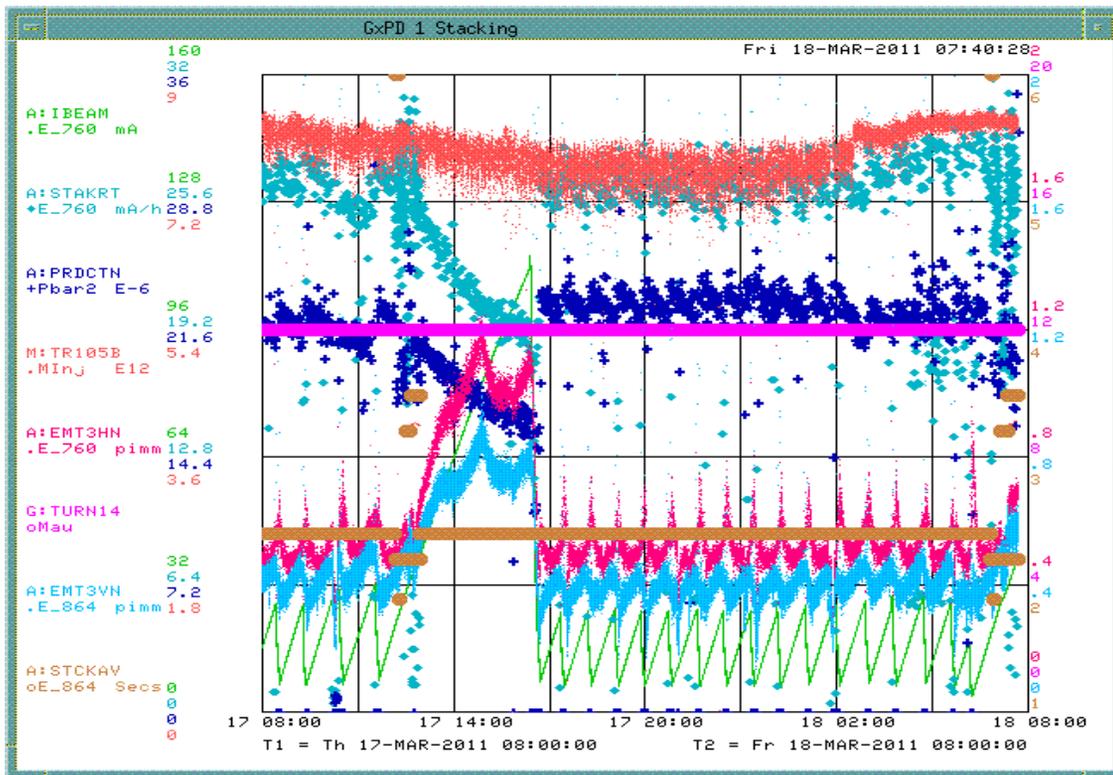
Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_ Transfer Time	Column 21 Number _20_A:1 BEAM B sample d on \$91 (A:BEA	Column 22 Number _21_A:1 BEAM B sample d on \$94 (A:BEA	Unstacked (mA)	Column 23 Number _22_R: BEAM S (R:BEA ME0[0]) pre fer E10	Column 24 Number _23_R: BEAM (R:BEA ME0[1]) post fer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficienc y	Tran sfer s	Sets	Column 5 Number _4_Acc Horizon tal Emittan ce	Column 6 Number _5_Acc Vertical Emittan ce	Column 8 Number _7_Acc Longitu dinal Emittan ce
Totals =>				3278.52		2930.87	89.40%	98.07%	95.49%	93.64%	377	121	5.1681	3.881	1.938	
Daily Average =>				468.36		418.70					54	17				

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Totals =>				2113.83		1991.60	94.22%	98.39%	96.25%	94.70%	377	92	4.9148	3.704	1.958	
Daily Average =>				301.98		284.51					54	13				

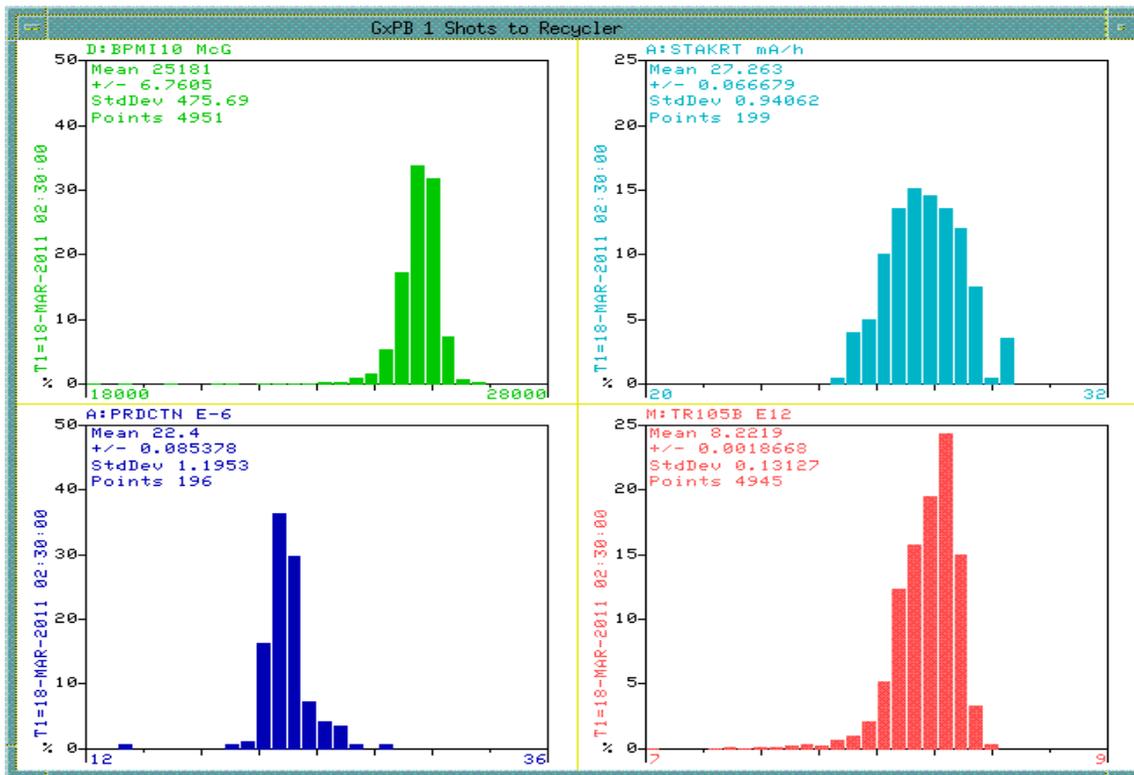


Day Plots

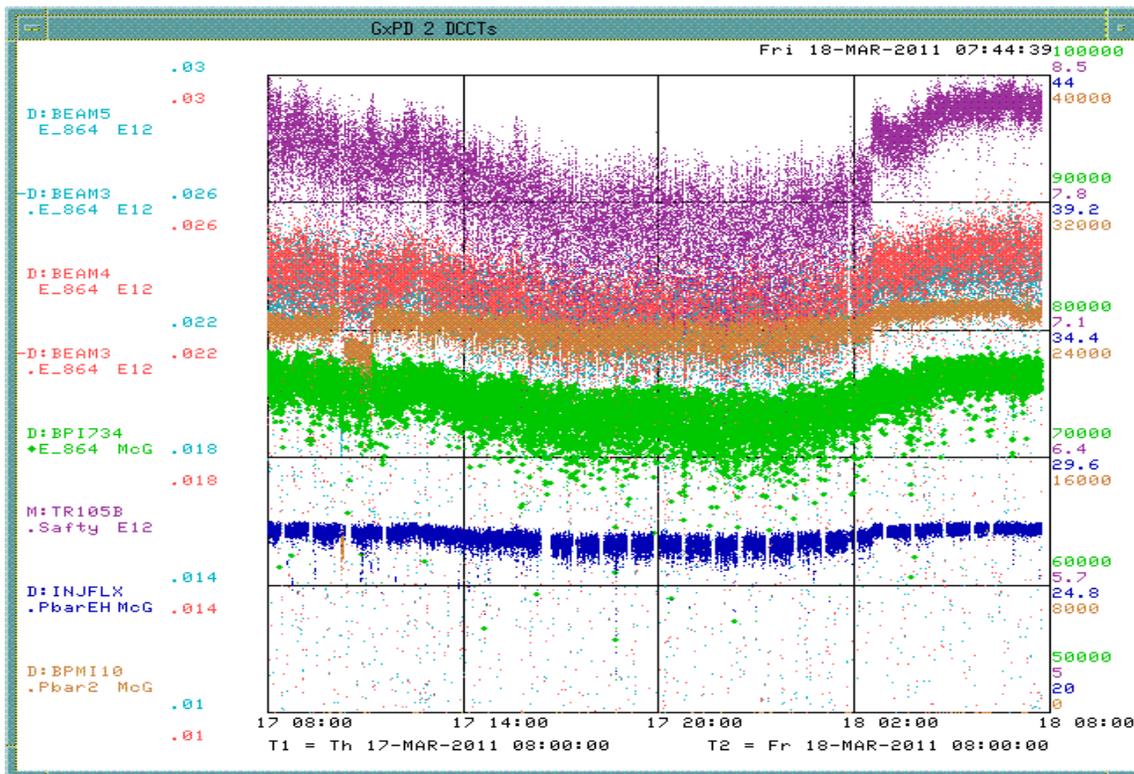




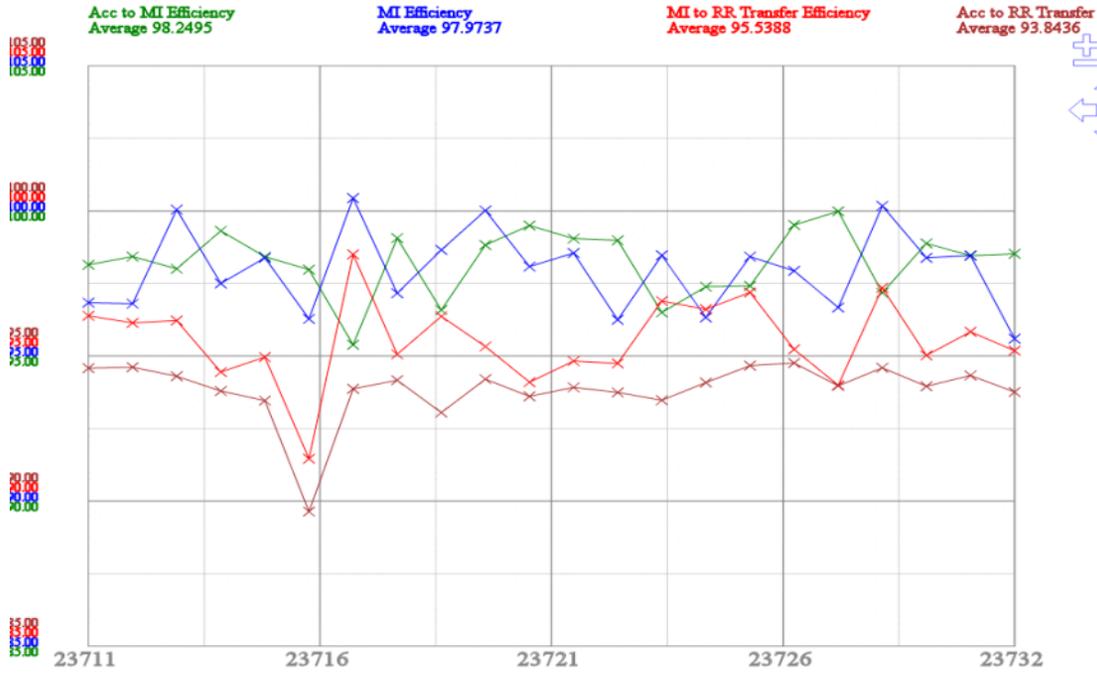
24 hours of stacking....more variation than normal with beam on target.



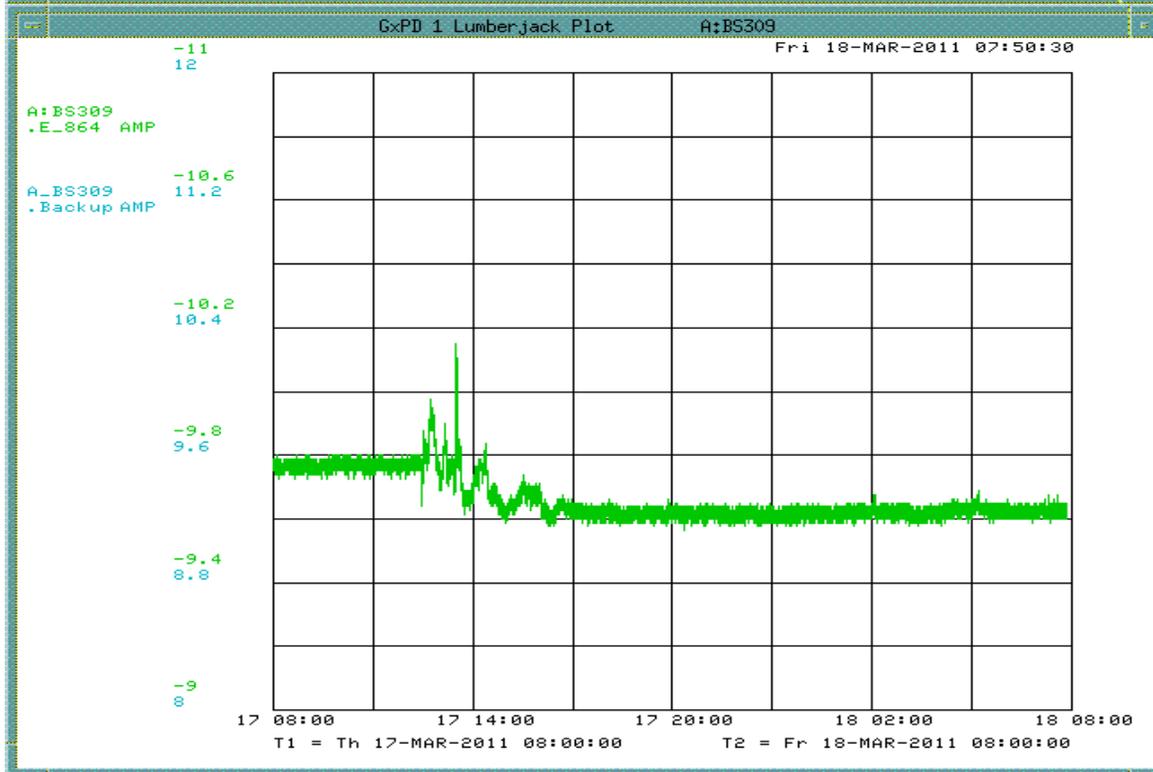
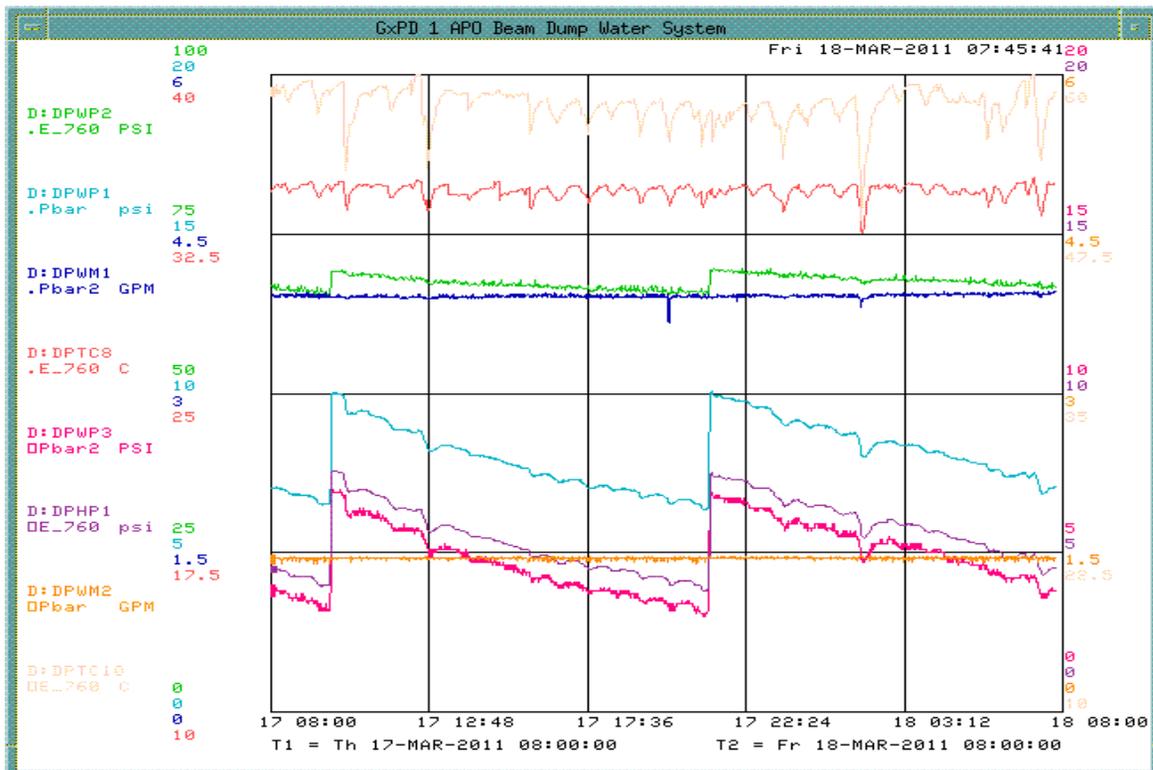
Good stacking from 2:30am until 6am.



Acc->Rec Table Plotter



Column 1 Number _0_Pba r Transfer Shot #	Column 4 Number_3 _Transfer Time	Column 21 Number _20_A:1 BEAM B sample d on \$91 (A:BEA	Column 22 Number _21_A:1 BEAM B sample d on \$94 (A:BEA	Unstacked (mA)	Column 23 Number _22_R: BEAM S (R:BEA ME0[0]) pre fer E10	Column 24 Number _23_R: BEAM (R:BEA ME0[1]) prefer, 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 Horizontal Emittance	Column 6 Number _5_Acc Vertical Emittance	Column 8 Number _7_Acc Longitudi nal Emittance	
Totals =>				576.42		535.85	92.96%	98.14%	95.81%	94.03%	70	22	5.2122	3.834	1.96		
Daily Average =>				576.42		535.85						70	22				
23732	Friday, March 18, 2011	6:08	17:51	3:91	15:40	391:09	405:14	14:47	93.95%	98.50%	94.46%	93.04%	3	1	5:042	3:261	1:994
23731	Friday, March 18, 2011	5:35	28:07	5:85	23:91	370:08	392:13	22:50	94.11%	98.83%	96.98%	95.85%	3	1	4:659	3:551	1:902
23730	Friday, March 18, 2011	4:42	28:90	7:27	23:85	349:48	371:42	22:37	93.81%	98.87%	96.61%	95.52%	3	1	5:289	3:893	1:974
23729	Friday, March 18, 2011	3:45	27:14	6:47	22:87	329:47	350:72	21:62	94.52%	97.18%	97.11%	94.38%	3	1	5:317	3:841	1:97
23728	Friday, March 18, 2011	2:54	28:03	7:06	23:48	308:68	330:37	22:06	93.92%	99.82%	96.24%	96.07%	3	1	5:401	4:049	1:968
23727	Friday, March 18, 2011	1:59	26:34	6:55	22:51	288:48	309:55	21:36	94.88%	99.22%	97.90%	97.14%	3	1	5:098	3:788	1:972
23726	Friday, March 18, 2011	1:01	26:93	6:80	22:25	268:47	289:23	21:05	94.62%	97.70%	96.28%	94.07%	3	1	5:243	3:898	1:996
23725	Friday, March 18, 2011	0:08	25:18	6:15	21:17	249:37	269:02	19:88	93.94%	97.29%	93.77%	91.23%	3	1	5:097	3:704	1:978
23724	Thursday, March 17, 2011	23:18	25:41	6:28	21:34	230:08	249:82	19:98	93.64%	97.06%	95.73%	92.91%	3	1	5:118	3:825	1:983
23723	Thursday, March 17, 2011	22:27	25:56	6:25	21:48	210:57	230:49	20:12	93.70%	98.33%	94.61%	93.04%	3	1	5:129	3:782	1:978
23722	Thursday, March 17, 2011	21:37	25:93	6:45	21:64	190:75	210:89	20:35	94.84%	98.91%	97.62%	96.56%	3	1	5:131	3:673	1:97
23721	Thursday, March 17, 2011	20:43	25:56	6:45	21:85	170:96	191:04	20:27	93.59%	99.21%	97.70%	96.83%	3	1	4:968	3:652	1:977
23720	Thursday, March 17, 2011	19:52	25:40	6:37	21:13	151:49	171:20	19:30	94.18%	98.59%	98.95%	97.56%	3	1	5:009	3:528	1:955
23719	Thursday, March 17, 2011	19:03	25:99	6:35	21:85	131:50	151:69	20:36	93.20%	96.96%	95.23%	92.94%	3	1	4:912	3:572	1:944
23718	Thursday, March 17, 2011	18:12	25:37	6:53	21:01	112:04	131:68	19:78	94.12%	99.08%	96.61%	95.72%	3	1	5:141	3:614	2:001
23717	Thursday, March 17, 2011	17:22	24:98	6:23	20:93	92:73	112:21	19:66	93.93%	96.34%	95.89%	92.38%	3	1	4:981	3:789	1:972
23716	Thursday, March 17, 2011	16:24	25:59	7:45	108:89	0:20	93:36	96:19	88.33%	97.33%	93.38%	90.89%	7	1	3:944	5:61	1:723
23715	Thursday, March 17, 2011	11:33	32:54	7:81	26:91	360:20	384:81	25:13	93.38%	98.31%	96.57%	94.94%	3	1	5:166	4:081	1:953
23714	Thursday, March 17, 2011	10:25	30:83	6:91	25:95	337:46	361:41	24:37	93.92%	99.60%	96.64%	96.25%	3	1	5:668	4:102	1:947
23713	Thursday, March 17, 2011	9:16	26:78	6:67	22:26	317:88	338:55	21:01	94.35%	98.07%	98.10%	96.21%	3	1	5:036	3:766	1:996
23712	Thursday, March 17, 2011	8:26	27:31	6:76	22:76	297:43	318:55	21:51	94.52%	98.40%	95.32%	93.80%	3	1	4:948	3:857	1:973
23711	Thursday, March 17, 2011	7:33	28:13	7:14	23:19	276:43	298:05	21:93	94.54%	98.30%	94.87%	93.25%	3	1	4:922	4:014	1:997



Dump Water Pictures

ap0sightglass

