

2011-05-16 Monday Morning Notes

Monday, May 16, 2011
7:30 AM

Stacking and Transfers

- Stacked 25.4 mA/hr with an average production of 19.3 with 8.36 Tp on target.
- Unstacked 1698E10 (566E10/day) in 218 transfers (73/day) over 71 sets (24/day) with an average overall efficiency of 96.5%.

Operational Notes

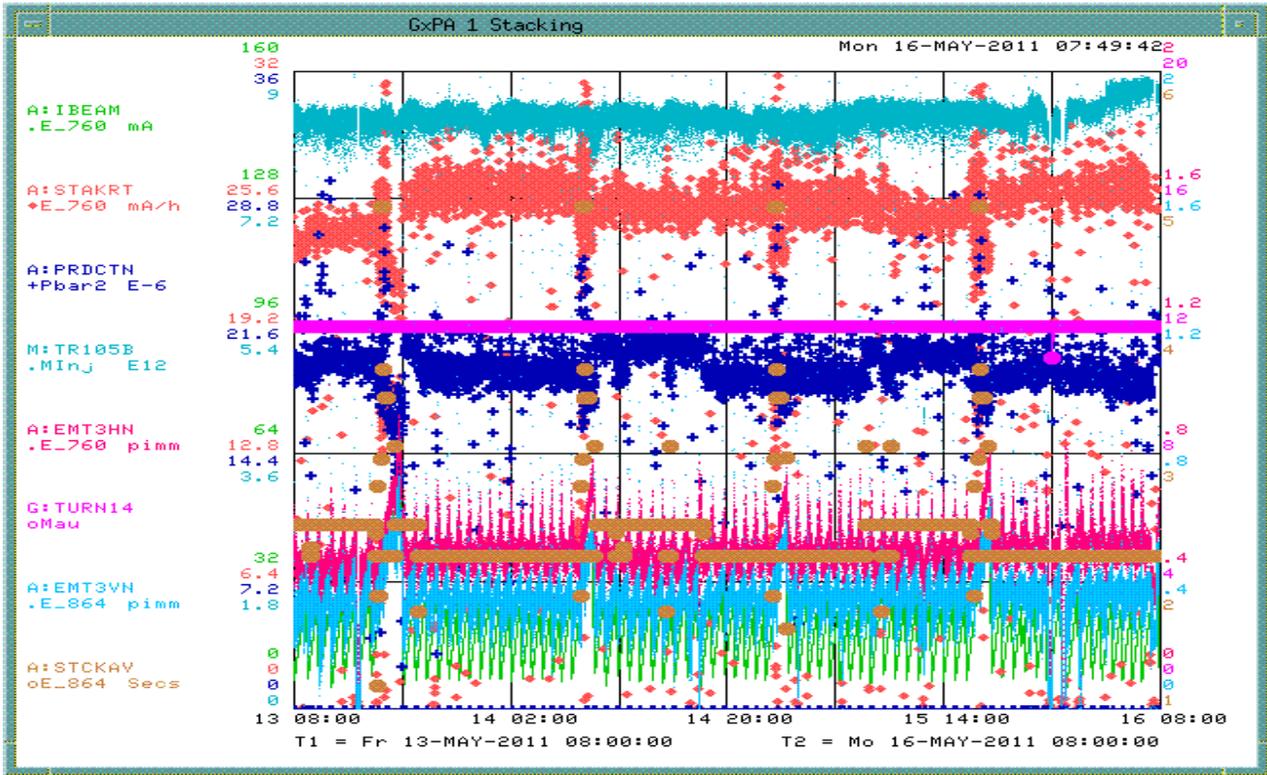
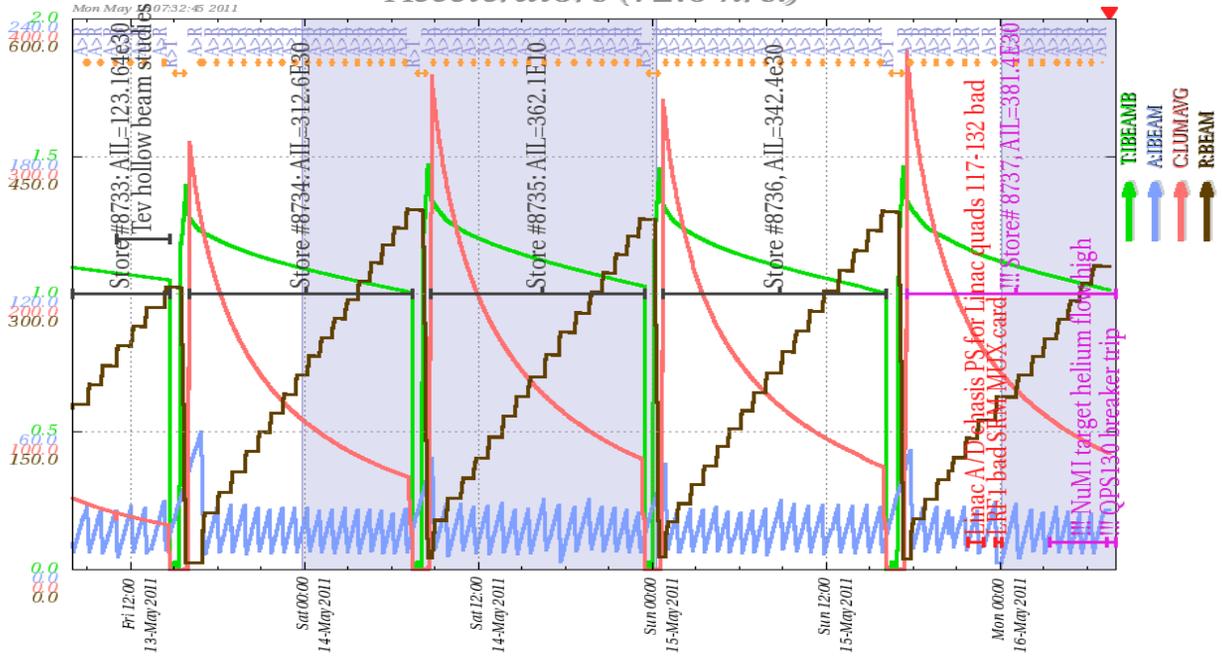
- Pbar 95 LCW heat exchanger switched from HE9 plate and frame to HE8 shell and tube so that HE9 can be cleaned and put back into service before the warm/humid weather returns.
- P4 TWT#2 dead. Reflected op

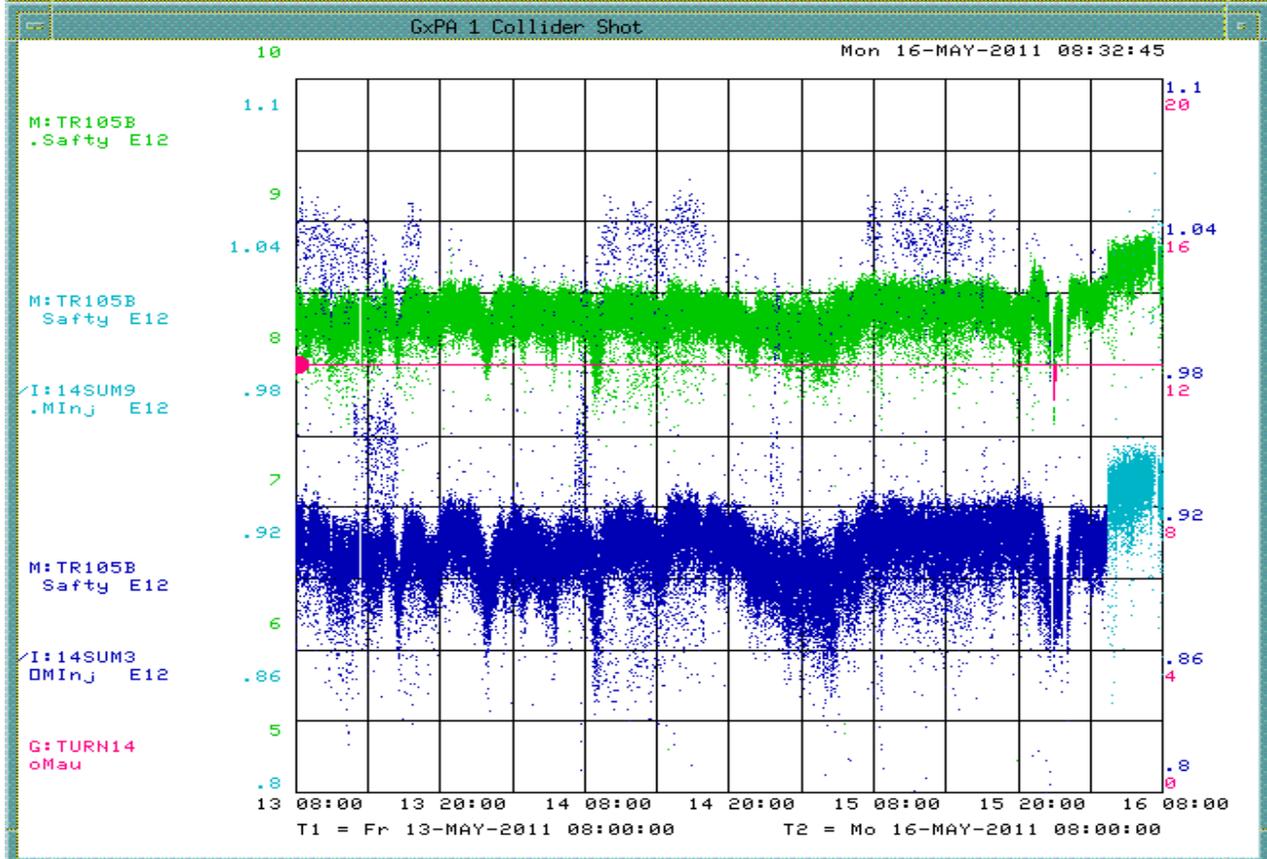
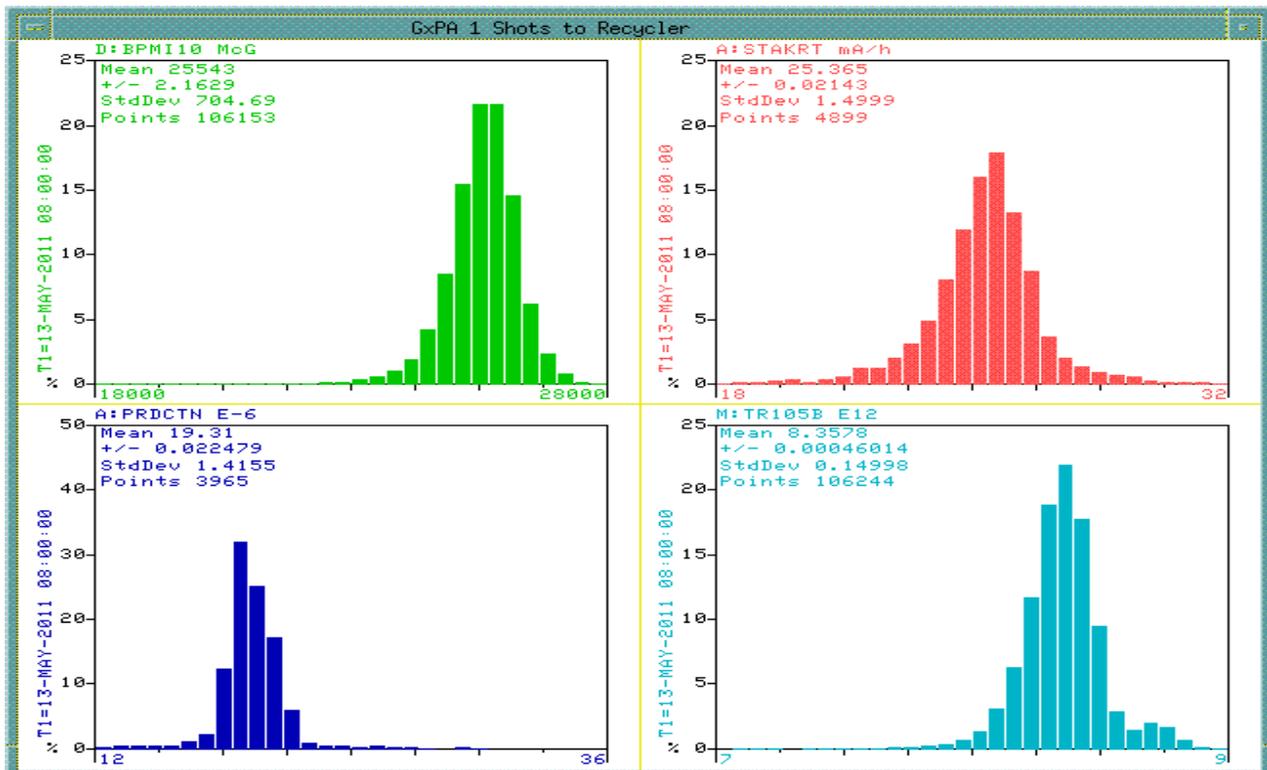
Numbers

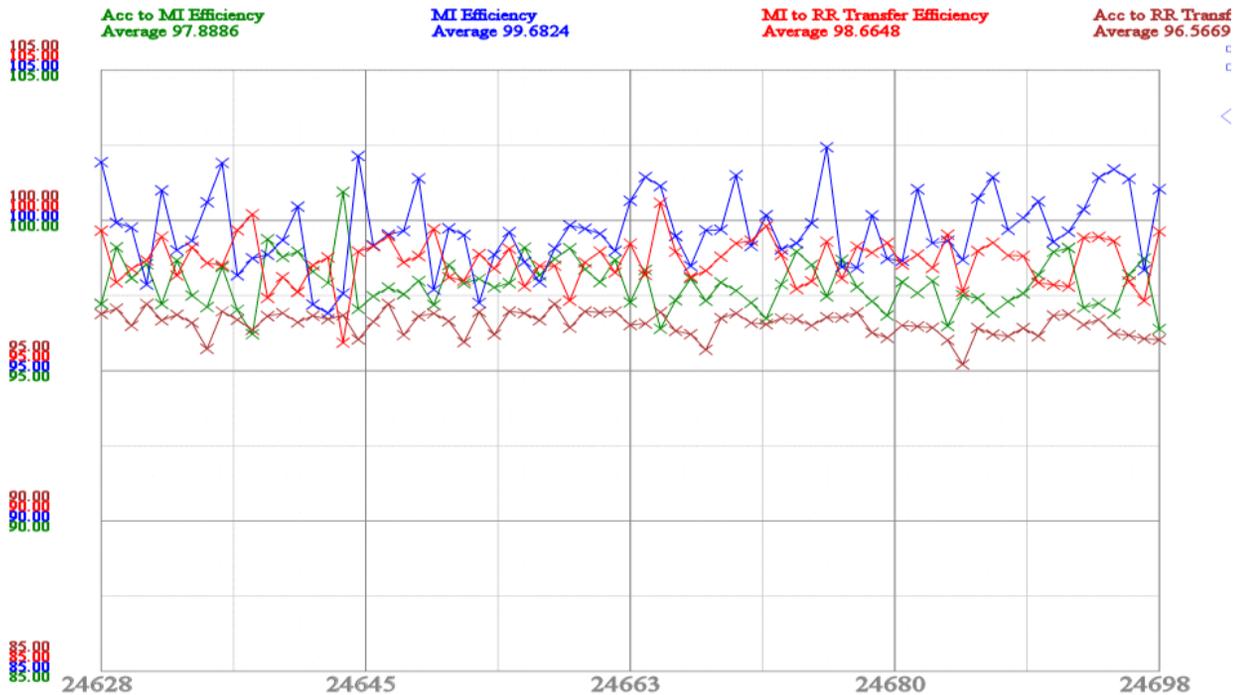
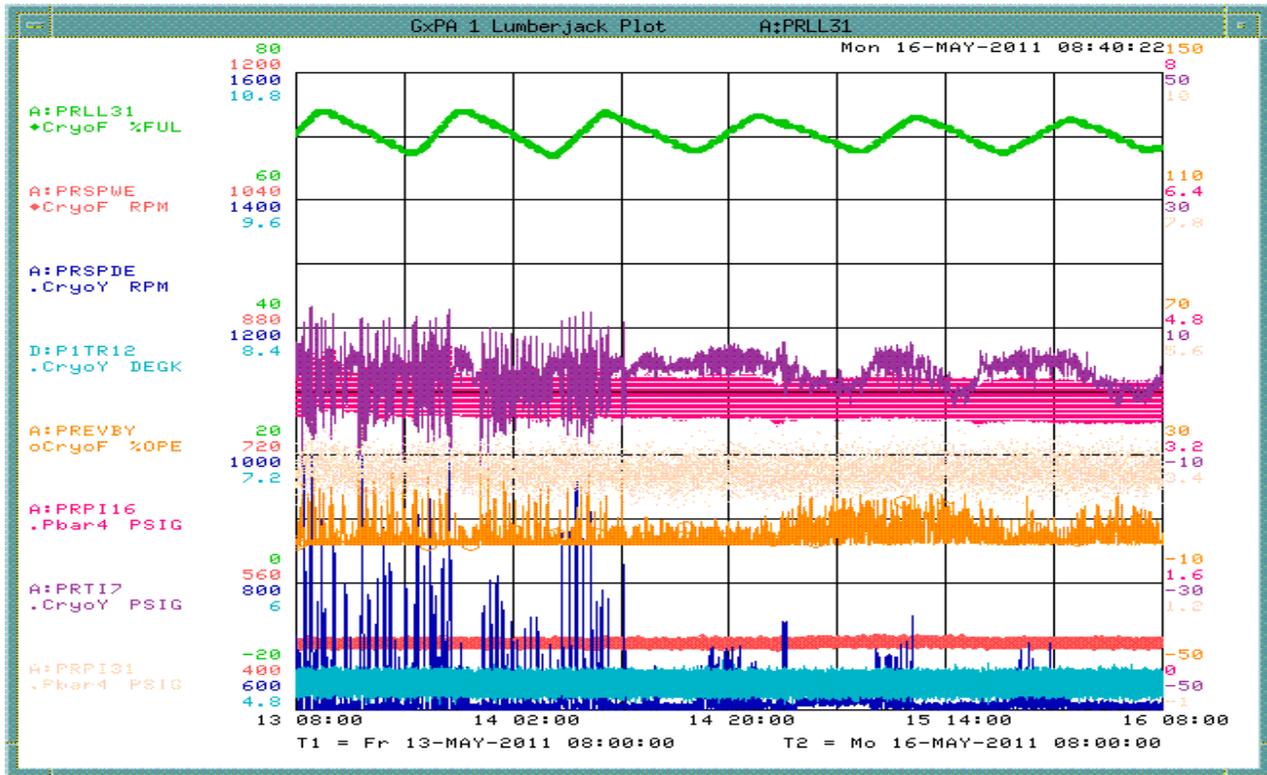
- Stacking
 - Pbars stacked: 1710.17 E10
 - Time stacking: 70.94 Hr
 - Average stacking rate: 24.11 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 110270
 - Number of pulses with beam: 106316
 - Fraction of up pulses was: 96.41%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 68.40 Hr
 - Possible average stacking rate: 25.00 E10/Hr
 - Could have stacked: 1773.77 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1686.14 E10
 - Number of transfers : 217
 - Number of transfer sets: 72
 - Average Number of transfer per set: 3.01
 - Time taken to shoot including reverse proton tuneup: 00.76 Hr
 - Transfer efficiency: 96.26%
- Other Info
 - Average POT : 8.35 E12
 - Average production: 19.25 pbars/E6 protons

Plots

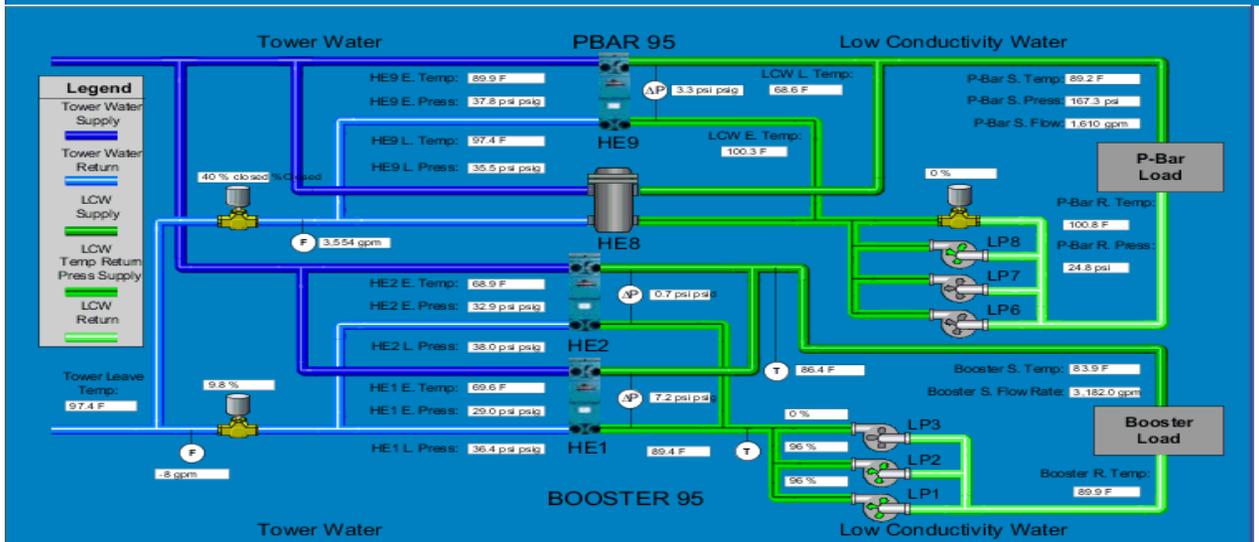
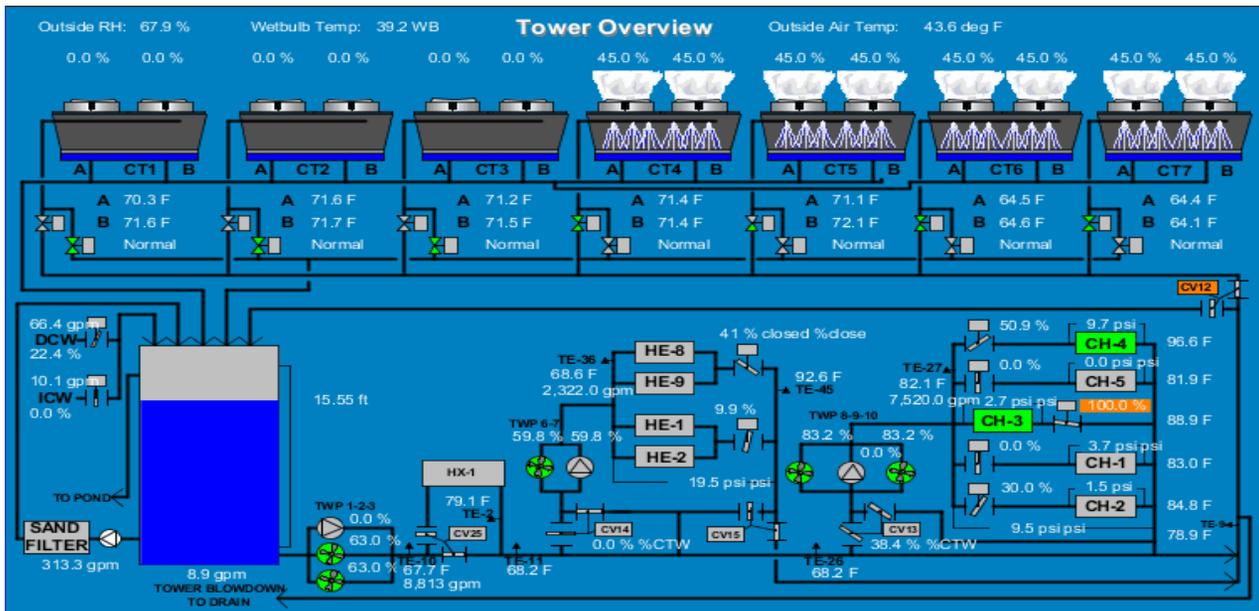
Accelerators (72.0 hrs.)







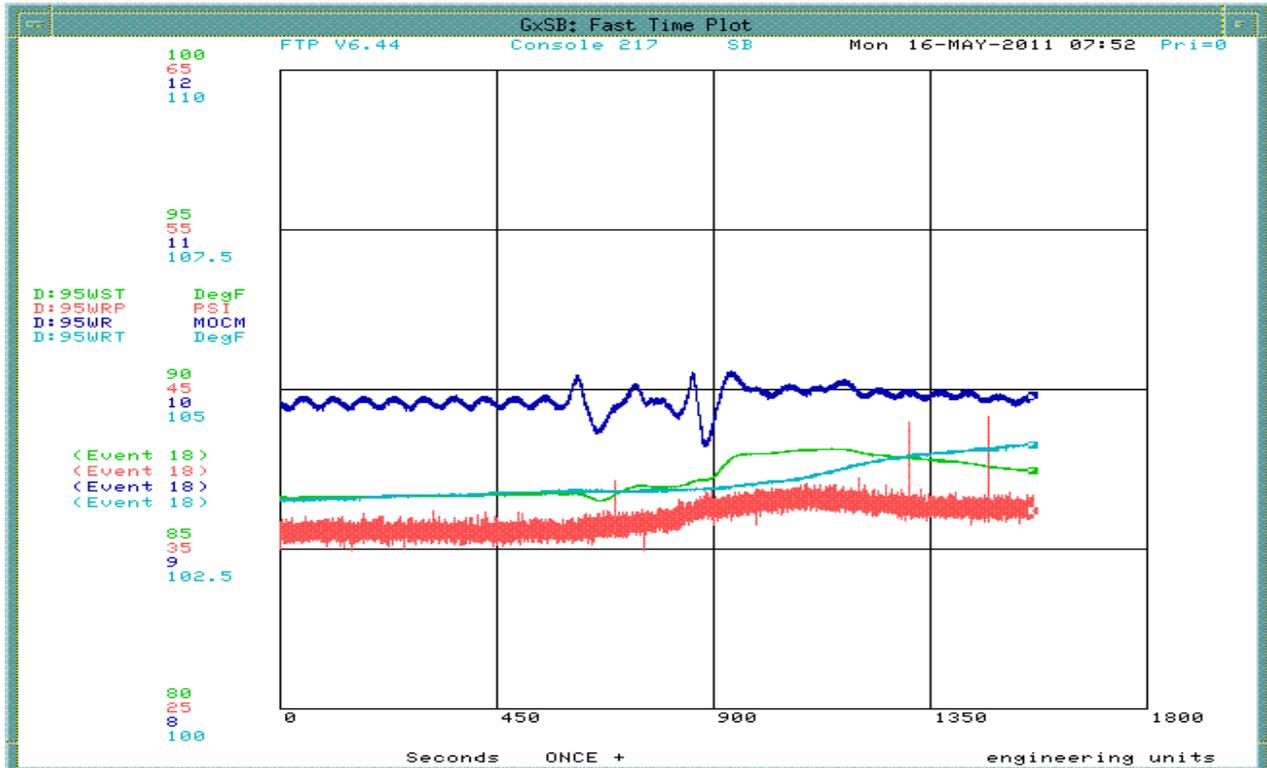
Column 1 Number of Pilot Transfer or Shot #	Column 4 Number_3_ Transfer Time	Column 21 Number_20 _A:IB EAMB empl edms 991 (A:BE)	Column 22 Number_21 _A:IB EAMB empl edms 994 (A:BE)	Unchecked (mA)	Column 23 Number_22 _R:BE AMS (R:BE AME0 0)	Column 24 Number_23 _R:BE AM (R:BE AME0 1)	Starbed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI* Efficiency	Transfer or Shot	Set	Column 5 Number_4_Ac Horizontal Emission	Column 6 Number_5 _A:IB Vertical Emission	Column 7 Number_7 _A:IB Longitudinal Emission	
Totals =>				1698.38			1638.69	96.49%	97.92%	97.56%	95.54%	218	71	4.93	3.39	2	
Daily Average =>				566.13			546.23					73	24				
24698	Monday, May 16, 2011	6:19	24:89	7:02	20:54	211.68	331.22	19.73	96.04%	96.44%	98.22%	94.93%	3	1	5.268	3.411	1.993
24697	Monday, May 16, 2011	5:31	25:19	7:20	20:58	292.53	312.14	19.79	96.14%	99.10%	97.28%	96.41%	3	1	5.123	3.543	1.943
24696	Monday, May 16, 2011	4:43	25:59	7:13	21:12	272.77	292.91	20.31	96.16%	97.86%	98.80%	96.30%	3	1	5.077	3.573	1.974
24695	Monday, May 16, 2011	3:55	27:44	7:12	22:59	251.56	273.13	20.76	96.33%	97.16%	98.16%	95.37%	3	1	5.325	3.51	1.979
24694	Monday, May 16, 2011	2:58	25:14	7:10	20:48	232.06	251.90	20.02	96.78%	97.36%	98.05%	95.42%	3	1	4.862	3.197	1.988
24693	Monday, May 16, 2011	2:10	26:36	7:52	21:45	211.79	232.39	20.71	96.54%	97.45%	97.26%	94.78%	3	1	5.019	3.501	2.002
24692	Monday, May 16, 2011	1:07	29:18	5:23	25:12	188.01	212.13	24.31	96.77%	98.81%	98.63%	97.46%	3	1	4.393	2.923	1.904
24691	Sunday, May 15, 2011	23:39	29:39	3:19	26:43	162.00	188.41	25.56	96.72%	98.88%	98.51%	97.41%	3	1	3.696	2.238	1.835
24690	Sunday, May 15, 2011	22:25	25:81	7:41	21:04	143.18	163.26	20.23	96.14%	98.34%	97.53%	95.94%	3	1	4.796	3.453	1.978
24689	Sunday, May 15, 2011	21:34	27:77	8:06	22:34	121.97	143.39	21.57	96.53%	97.53%	97.28%	94.68%	3	1	5.264	3.512	1.989
24688	Sunday, May 15, 2011	20:26	26:06	9:40	24:98	98.32	122.17	24.01	96.13%	97.51%	97.03%	94.62%	3	1	4.703	3.663	1.966
24687	Sunday, May 15, 2011	19:37	27:65	7:82	22:49	77.02	98.49	21.63	96.16%	97.00%	97.77%	94.84%	3	1	5.075	3.473	1.989
24686	Sunday, May 15, 2011	18:44	28:14	8:06	22:74	55.35	77.14	21.90	96.31%	97.46%	98.19%	95.68%	3	1	5.24	3.497	1.988
24685	Sunday, May 15, 2011	17:49	26:40	9:10	47.22	11.46	55.79	44.76	95.99%	97.27%	96.29%	92.85%	4	1	6.172	4.59	1.925
24684	Sunday, May 15, 2011	15:45	27:57	7:45	22:74	369.20	390.74	21.83	95.99%	96.63%	95.81%	92.58%	3	1	4.712	3.448	1.979
24683	Sunday, May 15, 2011	14:49	28:40	7:34	23:59	347.38	369.91	22.76	96.50%	97.93%	97.22%	95.21%	3	1	5.223	3.458	1.991
24682	Sunday, May 15, 2011	13:50	28:25	7:13	23:68	325.44	348.10	22.89	96.65%	97.55%	98.25%	95.94%	3	1	5.195	3.767	1.99
24681	Sunday, May 15, 2011	12:51	28:40	7:11	23:83	303.28	326.03	23.00	96.55%	97.78%	97.39%	95.22%	3	1	4.954	3.488	1.968
24680	Sunday, May 15, 2011	11:45	28:23	7:19	23:61	281.41	303.93	22.73	96.26%	97.41%	96.36%	93.86%	3	1	5.065	3.675	1.974
24679	Sunday, May 15, 2011	10:47	28:04	7:36	23:25	259.75	281.94	22.38	96.24%	97.26%	97.54%	94.87%	3	1	4.864	3.413	1.988
24678	Sunday, May 15, 2011	9:48	29:07	7:66	24:03	237.15	260.18	23.26	96.88%	97.93%	96.47%	94.47%	3	1	4.895	3.347	2.001
24677	Sunday, May 15, 2011	8:53	30:50	8:64	24:53	214.06	237.56	23.74	96.77%	98.56%	96.85%	95.45%	3	1	5.338	3.963	2.003
24676	Sunday, May 15, 2011	7:48	26:52	6:64	22:44	192.88	214.41	21.71	96.73%	97.26%	98.90%	96.20%	3	1	4.977	3.07	1.978
24675	Sunday, May 15, 2011	6:56	25:91	7:53	20:97	173.08	193.22	20.26	96.63%	98.19%	98.26%	96.59%	3	1	4.968	3.295	1.987
24674	Sunday, May 15, 2011	6:05	24:98	7:19	20:37	152.74	173.32	19.71	96.73%	99.03%	98.51%	97.55%	3	1	5.077	3.181	2.004
24673	Sunday, May 15, 2011	5:13	25:40	7:32	20:66	134.07	153.94	19.99	96.76%	97.85%	97.06%	94.97%	3	1	4.778	3.292	2.011
24672	Sunday, May 15, 2011	4:25	27:90	8:07	22:40	112.77	134.26	21.61	96.50%	97.05%	96.62%	93.78%	3	1	5.179	3.401	2.005
24671	Sunday, May 15, 2011	3:30	26:25	7:72	21:15	92.59	112.94	20.46	96.76%	97.76%	97.38%	95.20%	3	1	4.92	3.138	2.017
24670	Sunday, May 15, 2011	2:38	26:57	7:48	21:68	71.86	92.76	20.99	96.82%	98.03%	99.00%	97.05%	3	1	4.987	3.391	2.006
24669	Sunday, May 15, 2011	1:43	25:48	7:32	20:75	52.12	72.01	20.06	96.66%	97.95%	97.57%	95.84%	3	1	4.632	3.323	2.043
24668	Sunday, May 15, 2011	0:54	46:48	9:07	40:95	13.50	52.23	39.10	95.43%	97.46%	97.36%	94.89%	4	1	5.716	4.125	1.975
24667	Saturday, May 14, 2011	23:03	25:26	7:25	20:66	362.85	382.40	19.84	96.03%	97.86%	96.29%	94.32%	3	1	4.74	3.296	2.008
24666	Saturday, May 14, 2011	22:15	26:45	7:65	21:45	343.17	363.64	20.70	96.51%	97.64%	97.22%	94.92%	3	1	5.14	3.372	2.015
24665	Saturday, May 14, 2011	21:23	26:91	7:75	21:71	323.07	343.83	21.04	96.90%	96.99%	97.89%	94.55%	3	1	4.75	3.267	2.006
24664	Saturday, May 14, 2011	20:31	27:49	7:99	22:11	302.51	323.61	21.35	96.54%	98.26%	98.25%	97.62%	3	1	5.017	3.043	2.002
24663	Saturday, May 14, 2011	19:40	31:00	8:80	24:79	279.39	303.02	23.91	96.43%	97.37%	97.81%	95.24%	3	1	4.855	3.362	1.992
24662	Saturday, May 14, 2011	18:38	27:89	8:07	22:50	258.39	279.94	21.80	96.91%	98.53%	97.45%	96.01%	3	1	4.949	3.445	1.998
24661	Saturday, May 14, 2011	17:33	28:86	8:20	26:09	233.80	258.84	25.26	96.82%	97.78%	96.67%	94.52%	3	1	3.665	2.262	1.903
24660	Saturday, May 14, 2011	16:33	30:99	8:25	25:31	209.88	234.21	24.56	97.01%	98.36%	98.11%	96.50%	3	1	4.858	3.641	1.997
24659	Saturday, May 14, 2011	15:28	26:94	7:12	22:47	188.74	210.25	21.66	96.42%	99.05%	98.24%	97.31%	3	1	5.004	3.317	1.998
24658	Saturday, May 14, 2011	14:32	26:50	6:76	22:31	167.53	188.98	21.68	97.16%	98.25%	97.60%	95.98%	3	1	4.664	3.062	1.992
24657	Saturday, May 14, 2011	13:38	29:18	7:37	24:39	144.29	167.73	23.60	96.74%	98.47%	97.07%	95.58%	3	1	4.74	3.368	2.012
24656	Saturday, May 14, 2011	12:38	28:09	7:02	23:68	121.74	144.51	22.95	96.98%	99.10%	98.46%	97.53%	3	1	4.911	3.184	1.968
24655	Saturday, May 14, 2011	11:41	27:36	7:18	23:29	99.53	121.97	22.58	96.93%	98.12%	97.99%	96.14%	3	1	4.709	3.32	2.002
24654	Saturday, May 14, 2011	10:48	28:77	8:19	23:32	77.43	99.71	22.45	96.25%	97.80%	96.25%	94.29%	3	1	5.317	3.534	1.997
24653	Saturday, May 14, 2011	9:47	28:84	6:08	24:80	53.74	77.61	24.04	96.93%	98.19%	96.24%	94.68%	3	1	4.607	3.048	1.979
24652	Saturday, May 14, 2011	8:50	48:80	9:20	43:38	12.92	53.98	41.51	95.78%	97.59%	97.50%	95.15%	4	1	5.849	4.188	1.964
24651	Saturday, May 14, 2011	6:58	26:85	7:78	21:72	372.08	392.74	21.01	96.69%	98.60%	97.95%	96.57%	3	1	5.221	3.411	2.045
24650	Saturday, May 14, 2011	6:06	24:51	7:09	20:03	352.64	372.76	19.41	96.98%	97.39%	95.52%	93.03%	3	1	4.964	3.162	2.022
24649	Saturday, May 14, 2011	5:19	25:78	7:30	21:08	334.05	354.26	20.44	96.98%	98.42%	98.95%	97.39%	3	1	4.847	3.334	2.021
24648	Saturday, May 14, 2011	4:30	26:50	7:54	21:52	314.09	334.61	20.74	96.48%	97.64%	94.59%	94.59%	3	1	4.922	3.475	1.992
24647	Saturday, May 14, 2011	3:39	26:01	7:41	21:24	294.17	314.56	20.64	97.28%	97.43%	96.93%	94.44%	3	1	4.974	3.342	2.011
24646	Saturday, May 14, 2011	2:50	27:46	7:74	22:33	273.32	294.65	21.55	96.48%	97.66%	96.12%	93.87%	3	1	5.212	3.393	2.001
24645	Saturday, May 14, 2011	1:56	26:67	7:08	22:29	252.45	273.77	21.47	96.31%	97.61%	96.26%	96.39%	3	1	4.821	3.237	1.987
24644	Saturday, May 14, 2011	1:03	25:97	7:53	21:05	232.64	252.84	20.39	96.89%	100.84%	98.48%	99.31%	3	1	4.817	3.351	2.003
24643	Saturday, May 14, 2011	0:13	27:05	7:74	21:94	211.97	232.99	21.21	96.65%	97.78%	95.41%	93.48%	3	1	4.883	3.335	1.976
24642	Friday, May 13, 2011	23:32	27:36	7:80	22:20	191.02	212.31	21.46	96.67%	98.30%	95.52%	93.88%	3	1	4.808	3.546	1.999
24641	Friday, May 13, 2011	22:28	27:11	7:81	21:97	170.30	191.34	21.23	96.64%	98.77%	96.42%	97.21%	3	1	5.096	3.418	2.011
24640	Friday, May 13, 2011	21:36	26:42	7:41	21:64	149.75	170.55	21.00	97.03%	98.82%	97.91%	96.75%	3	1	4.755	3.354	2.005
24639	Friday, May 13, 2011	20:46	27:33	7:85	22:11	128.71	149.95	21.40	96.78%	99.36%	98.47%	97.84%	3	1	4.846	3.491	1.999
24638	Friday, May 13, 2011	19:52	28:24	7:01	23:74	106.12	128.89	22.92	96.54%	97.08%	95.73%	92.94%	3	1	5.258	3.267	1.967
24637	Friday, May 13, 2011	18:56	28:30	7:82	23:11	84.09	106.30	22.37	96.79%	97.37%	96.22%	93.69%	3	1	4.914	3.596	2.023
24636	Friday, May 13, 2011	18:00	27:68	7:31	22:94	62.12	84.21	22.25	96.99%	98.40%	100.45%	98.85%	3	1	4.93	3.506	2.018
24635	Friday, May 13, 2011																

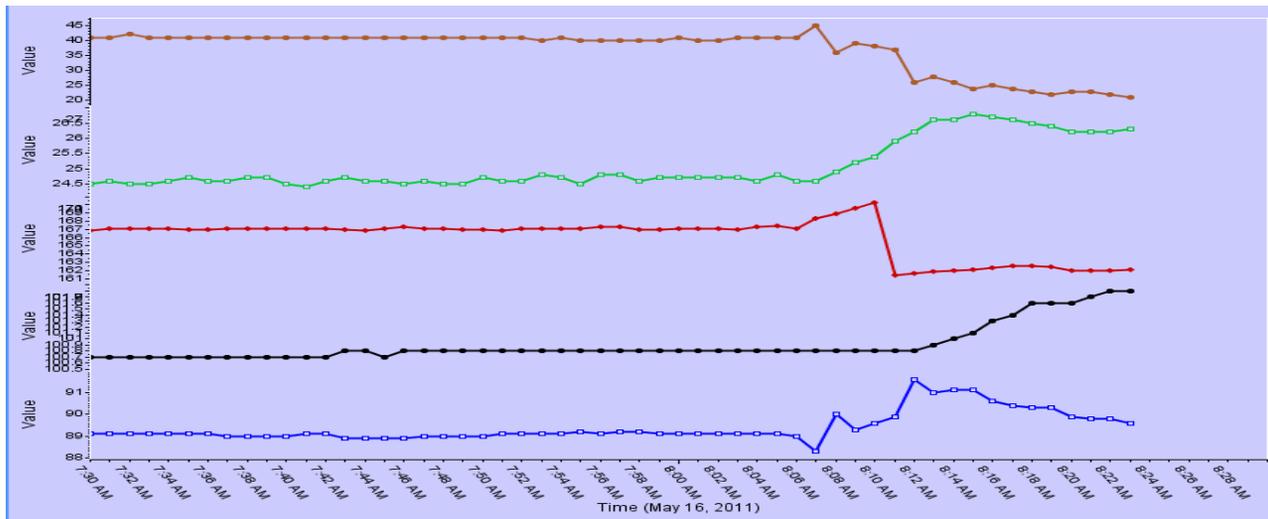


Status	Item	Value	Description
🔄	214PBR95 LCWST	89.1 F	P-Bar 95 LCW Supply...
🔄	214PBR95 LCWRT	100.8 F	P-Bar 95 LCW Return...
🔄	214PBR95 TEMP-SP	95.0 deg F	Average Temp Setpoint
🔄	214PBR95 FCV-1	40 % clos...	Flow Control Valve-1 %...
🔄	214PBR95 LCWSP	167.0 psi	P-Bar 95 LCW Supply...
🔄	214PBR95 LCWRP	24.7 psi	P-Bar 95 LCW Return...
🔄	214PBR95 PBDATA LCW...	142.3 psi	Differential Pressure p...
🔄	214PBR95 DP-SP	150.0 psi	Differential Press Setpt
🔄	214PBR95 LCWFLOW	1,827 gpm	P-Bar 95 LCW Flowme...
🔄	214PBR95 PCV-1	0 %	Pressure Control Valve...
🔄	214PBR95 HI-COND	Normal	LCW Hi-Conductivity
🔄	214PBR95 TANK-LVL	29 %	PBar 95LCW ExpTank...
🔄	214PBR95 ET-HL	Normal	Expansion Tank Hi Level
🔄	214PBR95 ET-LL	Normal	Expansion Tank Lo Lev...
🔄	214PBR95 SURGE	Normal	Transfector Surge Sup...
🔄	214PBR95 FFFE-DP	1.94 psi	East Full Flow Filter DP...
🔄	214PBR95 FFFW-DP	1.25 psi	West Full Flow Filter D...
🔄	214PBR95 LCW-TEMP	0.0 F	LCW Supply Temp
🔄	214PBR95 6_7_8-LL	State 2	LP6,7,8 Lead/Lag/Stan...
🔄	214PBR95 LP6-ENA	Enable	LCW Sup Pump 6 Ena...
🔄	214PBR95 LP6-STAT	On	LCW Sup Pump 6 Status
🔄	214PBR95 LP6-VCMD	100 %	LCW Pump 6 Valve Co...
🔄	214PBR95 LP7-ENA	Disable	LCW Sup Pump 7 Ena...
🔄	214PBR95 LP7-STAT	Off	LCW Sup Pump 7 Status
🔄	214PBR95 LP7-VCMD	20 %	LCW Pump 7 Valve Co...
🔄	214PBR95 LP8-ENA	Enable	LCW Sup Pump 8 Ena...
🔄	214PBR95 LP8-STAT	On	LCW Sup Pump 8 Status

Status	Item	Value	Description
🔄	214PBR95 LP7-VCMD	20 %	LCW Pump 7 Valve C...
🔄	214PBR95 LP8-ENA	Enable	LCW Sup Pump 8 En...
🔄	214PBR95 LP8-STAT	On	LCW Sup Pump 8 Sta...
🔄	214PBR95 LP8-VCMD	100 %	LCW Pump 8 Valve C...
🔄	214PBR95 PBDATA TIM2S...	0.0 minutes	Time to Pumps Shut...
🔄	214PBR95 PBDATA SHTD...	30.0 minutes	Pumps Shut Down Pe...
🔄	214PBR95 LKTNK-SP	5.0 %	Tank Leak AlarmThre...
🔄	214PBR95 LKPR-SP	50.0 psi	Pres Leak AlarmThre...
🔄	214PBR95 LKFLO-SP	1,000.0 gpm	Flow Leak AlarmThre...
🔄	214PBR95 PBDATA LEAK...	Normal	PBAR LCW Sys Leak ...
🔄	214PBR95 PBDATA LEAKA...	Normal	PBAR LCW Sys Leak ...
🔄	214PBR95 LEAK-SHD	Normal	PBAR LCW Sys Leak ...
🔄	214PBR95 LEAK-RST	Off	Sys Leak Detection R...
🔄	214PBR95 HE9-TWET	89.9 F	HE9 Twr Water Enter ...
🔄	214PBR95 HE9-TWLT	97.4 F	HE9 Twr Water Leave ...
🔄	214PBR95 HE9-TWEP	39.3 psi	HE9 Twr Water Enter ...
🔄	214PBR95 HE9-TWLP	37.0 psi	HE9 Twr Water Leave ...
🔄	214PBR95 HE9DATA HE9-TW...	1,284.0 gpm	HE9 TW Flow (Calc'd)
🔄	214PBR95 HE9DATA HE9-TW...	389.5 tons	HE9 TW Energy (Calc'...
🔄	214PBR95 HE-TWFL	3,574 gpm	PBar LCW TW Flowm...
🔄	214PBR95 HE9LCWET	100.3 F	HE9 95LCW Entering ...
🔄	214PBR95 HE9LCWLT	68.5 F	HE9 95LCW Leaving ...
🔄	214PBR95 HE9LCWDP	3.3 psi	HE9 95LCW Diff Pres...
🔄	214PBR95 HE9DATA HE9-LC...	1,394.0 gpm	HE9 95LCW Flow (Ca...
🔄	214PBR95 HE9DATA HE9-LC...	1,827.0 tons	HE9 95LCW Energy (...)
🔄	214PBR95 HE8MANVL	Close	HE-8 Manual System ...
🔄	214PBR95 HE9MANVL	Open	HE-9 Manual System ...
🔄	214PBR95 SYS-ENA	Enable	PBar 95LCW System ...

Status	Item	Value	Description
	DO-1 Span	8,120.0	
	214-IR DO-1	9.2 mA	Dissolved O2 #1
	214-IR DO-1OUT	100.000	
	214-IR DO1R1	Off	DO-1 Range 1
	214-IR DO1R2	Off	DO-1 Range 2
	214-IR DO1R3	Off	DO-1 Range 3
	214-IR DO1R4	On	DO-1 Range 4
	DO2SPAN SpanCond	11.2	
	214-IR COND-IR	13.0 mA	Conductivity I.R. Input
	214-IR COND-OUT	56.219	Spanned COND-IR
	214-IR COND-RNG	Off	COND-IR Range
	214-IR pH-IR	4.2 pH	pH Instrument Rack
	CS 214-IR MODEL		





Show	Marker	Name	Reference
<input type="checkbox"/>		214PBR95 LCWST.PointHistory	...-CUB:NAE4/N2-1.NC22-HW DX-2.214PBR95 LCWST.PointHistory
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<input type="checkbox"/>		214PBR95 FCV-1.PointHistory	...S-CUB:NAE4/N2-1.NC22-HW DX-2.214PBR95 FCV-1.PointHistory
<input checked="" type="checkbox"/>		214PBR95 FCV-1.CUB PBAR95 FCV-1 % CLOSED	...TRLS-CUB:NAE4/N2-1.NC22-HW DX-2.214PBR95 FCV-1.Trend1