

2011-08-09 Tuesday Morning Notes

Tuesday, August 09, 2011
7:37 AM

Operational Notes:

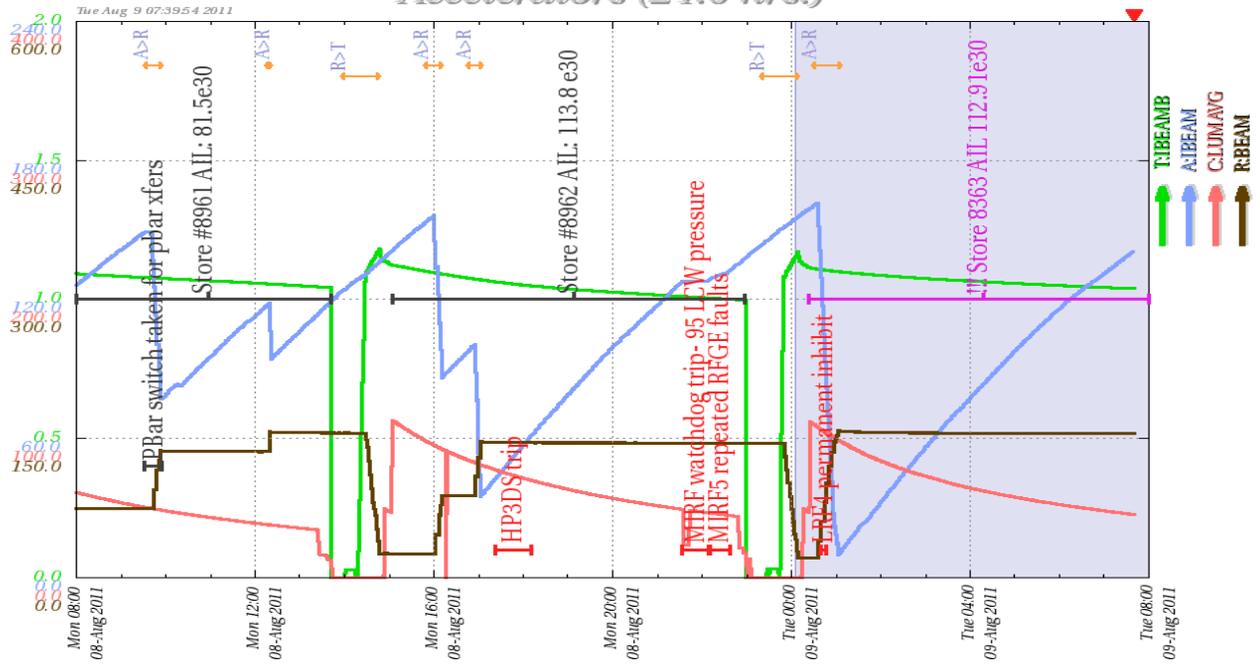
- The vertical emittance readback fixed itself. Dave Peterson took measurements (<http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar11&action=view&page=151&anchor=090714&hilite=09:07:14->)
- We have a small dump water skid leak
- MI-52 extraction kicker current is drifting

Numbers

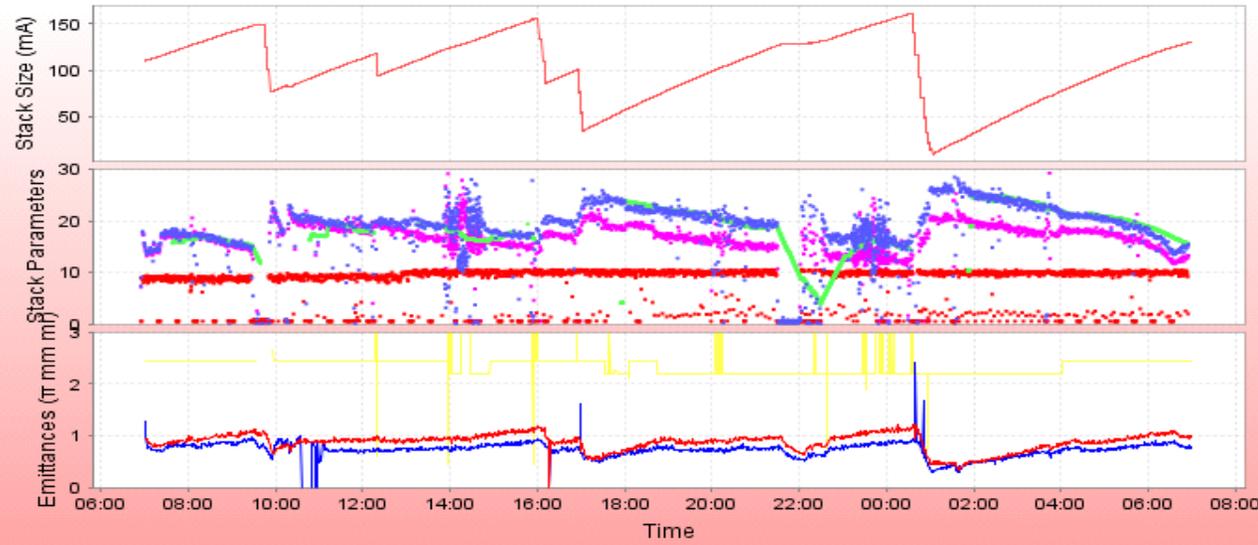
- Stacking
 - Pbars stacked: 424.40 E10
 - Time stacking: 23.93 Hr
 - Average stacking rate: 17.73 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 35741
 - Number of pulses with beam: 33368
 - Fraction of up pulses was: 93.36%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.34 Hr
 - Possible average stacking rate: 18.99 E10/Hr
 - Could have stacked: 454.58 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 394.09 E10
 - Number of transfers : 19
 - Number of transfer sets: 5
 - Average Number of transfer per set: 3.80
 - Time taken to shoot including reverse proton tuneup: 00.07 Hr
 - Transfer efficiency: 88.60%
- Other Info
 - Average POT : 7.71 E12
 - Average production: 16.49 pbars/E6 protons

Plots

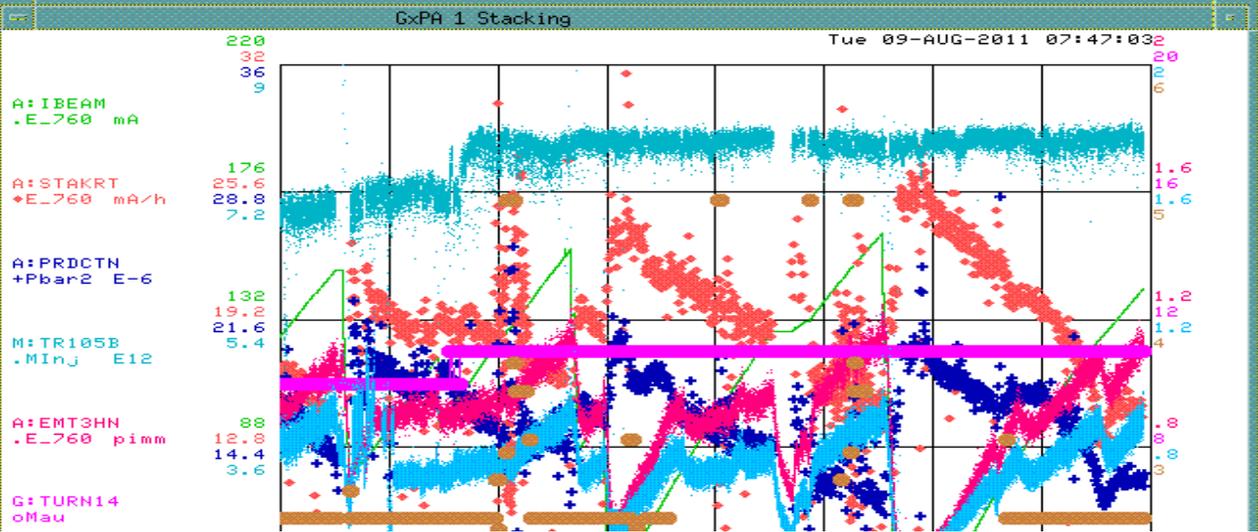
Accelerators (24.0 hrs.)



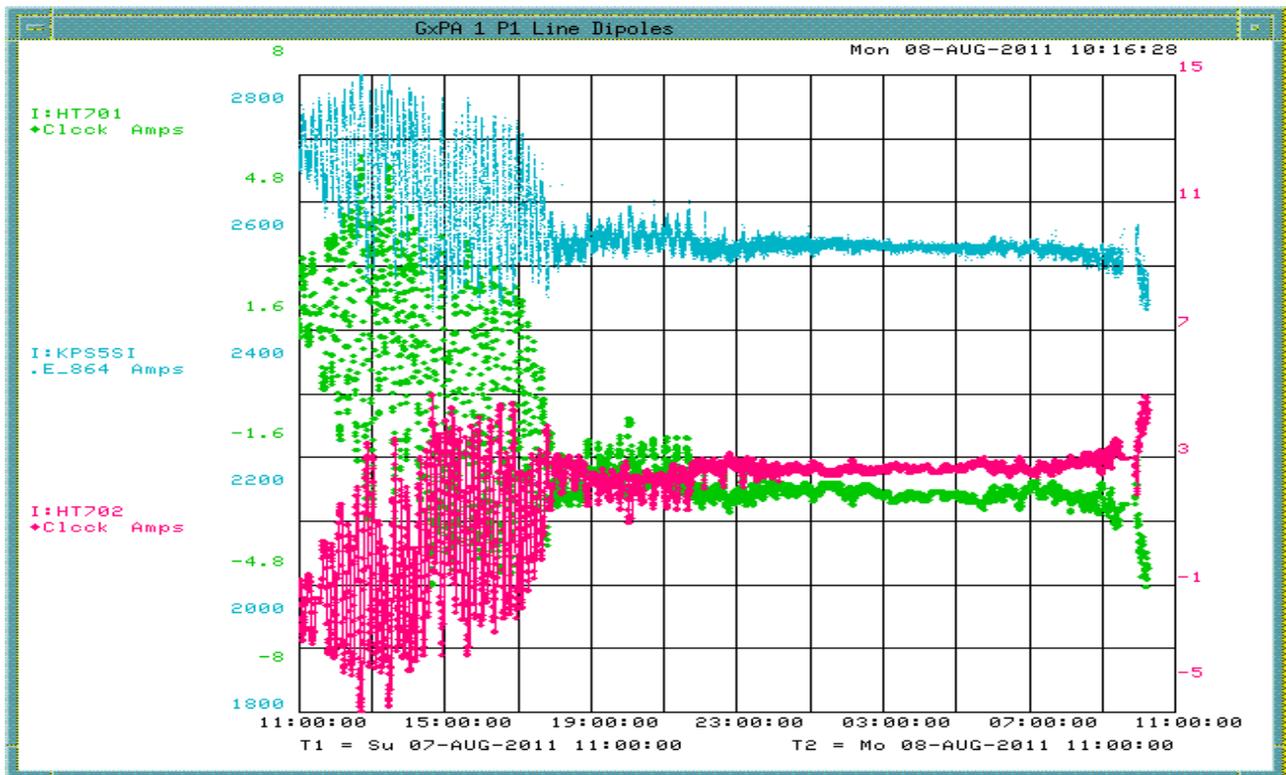
Mon Aug 08 07:00:00 CDT 2011 -- Tue Aug 09 07:00:00 CDT 2011



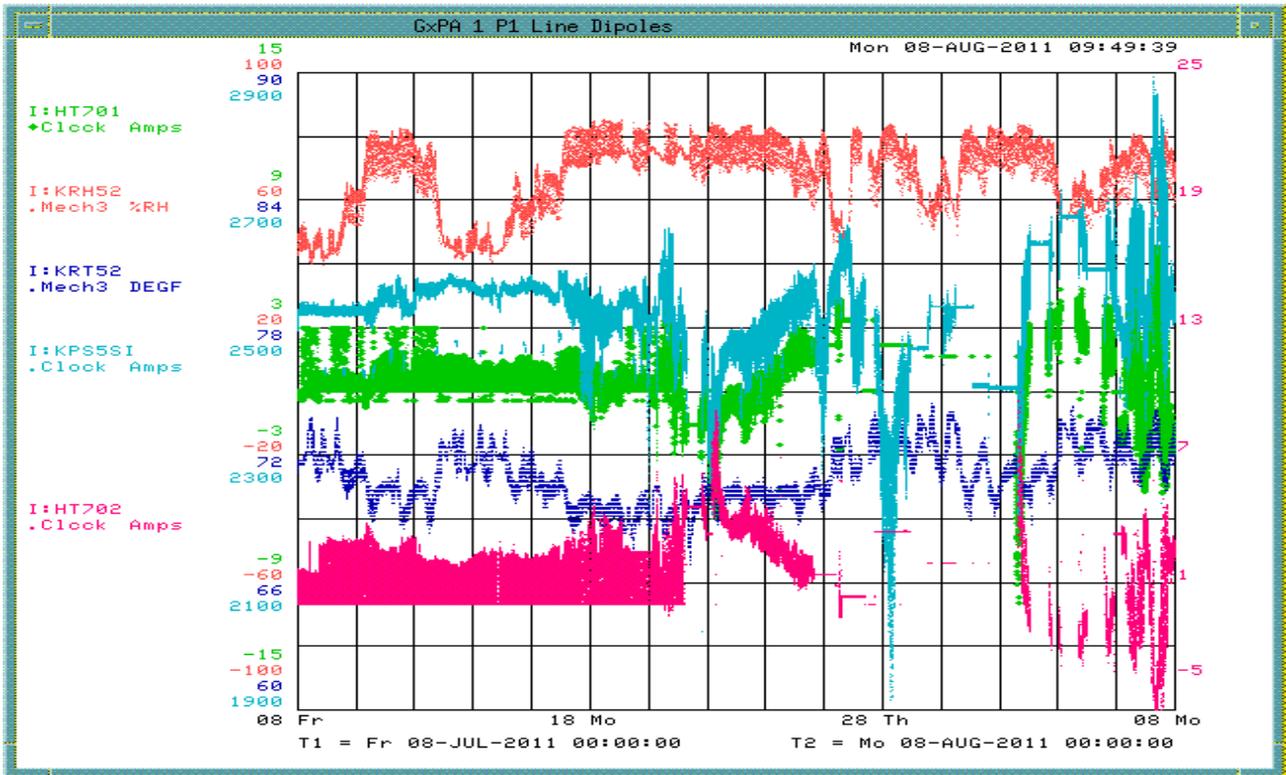
— A:IBEAM • A:STCKRT • Hourly Rate • M:TOR109 • A:PRDCTN — A:EMT3HN — A:EMT3VN
 — Ave Time between \$81's



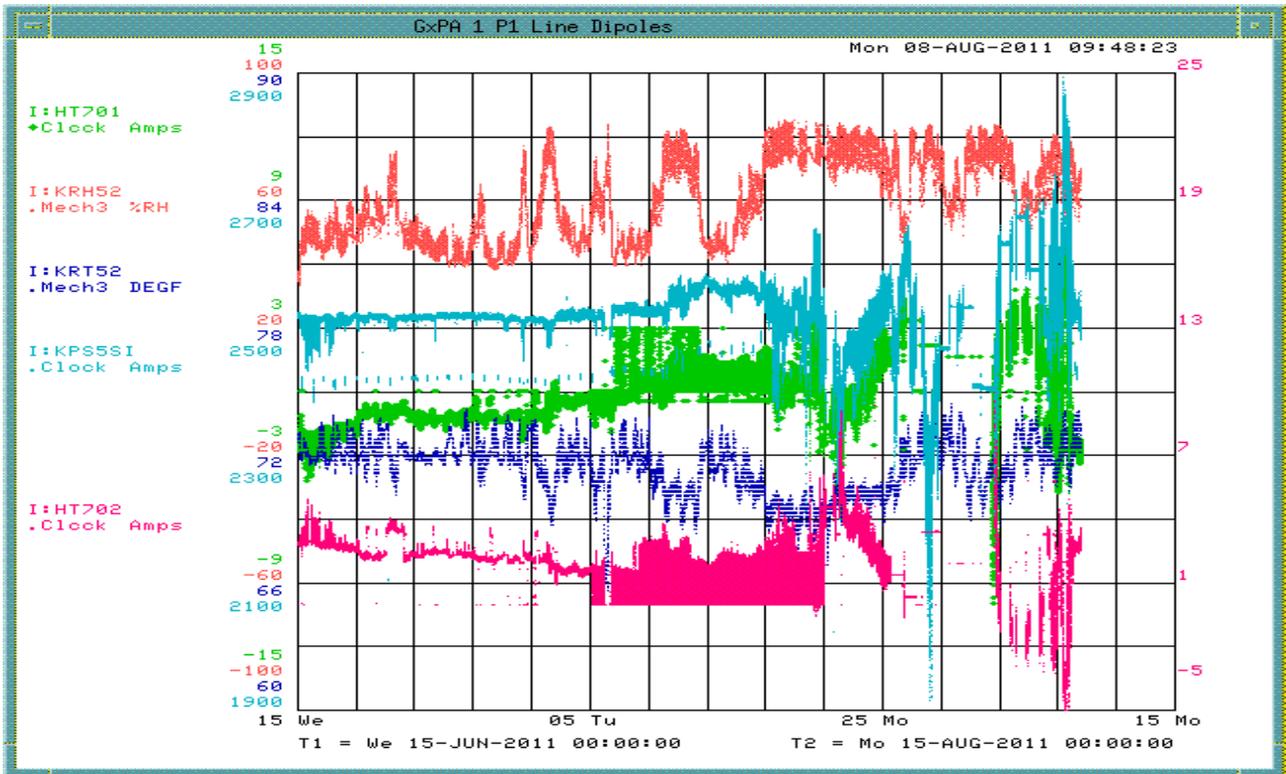
Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A:J BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number _21_A:J BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R:B EAMS (R:BEA ME0[0]) pre fer E10	Column 24 Number _23_R:B EAM (R:BEA ME0[1]) post fer E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to 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 =>				394.30		354.12		89.81%	94.62%	93.98%	88.93%	19	5	9.1316	6.9442	1.4446	
Daily Average =>				394.30		354.12						19	5				
26085	Tuesday, August 09, 2011	0:36	161.75	9.65	157.82	21.16	158.52	142.76	90.46%	94.93%	94.27%	89.49%	9	1	7.625	5.969	1.698
26084	Monday, August 08, 2011	16:55	100.65	35.04	67.61	88.06	146.99	60.65	89.71%	94.54%	94.01%	88.88%	3	1	8.458	6.759	1.568
26083	Monday, August 08, 2011	16:00	156.27	85.93	72.51	25.96	89.08	64.87	89.46%	94.71%	93.92%	88.95%	3	1	10.746	8.323	1.332
26081	Monday, August 08, 2011	12:19	118.54	93.82	24.73	135.98	157.76	21.79	88.11%	93.58%	92.28%	86.36%	1	1	9.749	6.761	1.304
26080	Monday, August 08, 2011	9:43	148.88	77.09	71.63	74.65	137.21	64.06	89.42%	94.30%	93.95%	88.60%	3	1	9.08	6.909	1.321



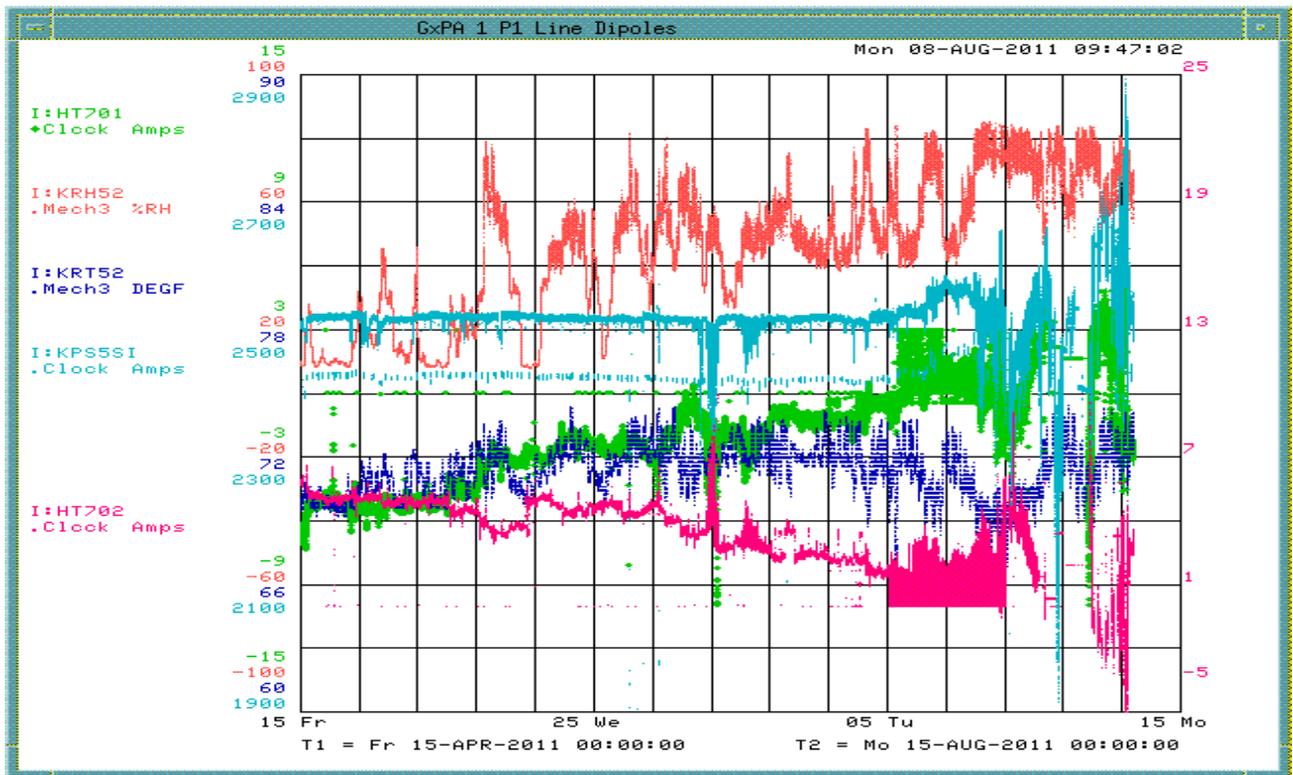
I:KPS5SI (MI-52 kicker) is walking around and we see it in the P1 line beam orbit. This is 24 hours



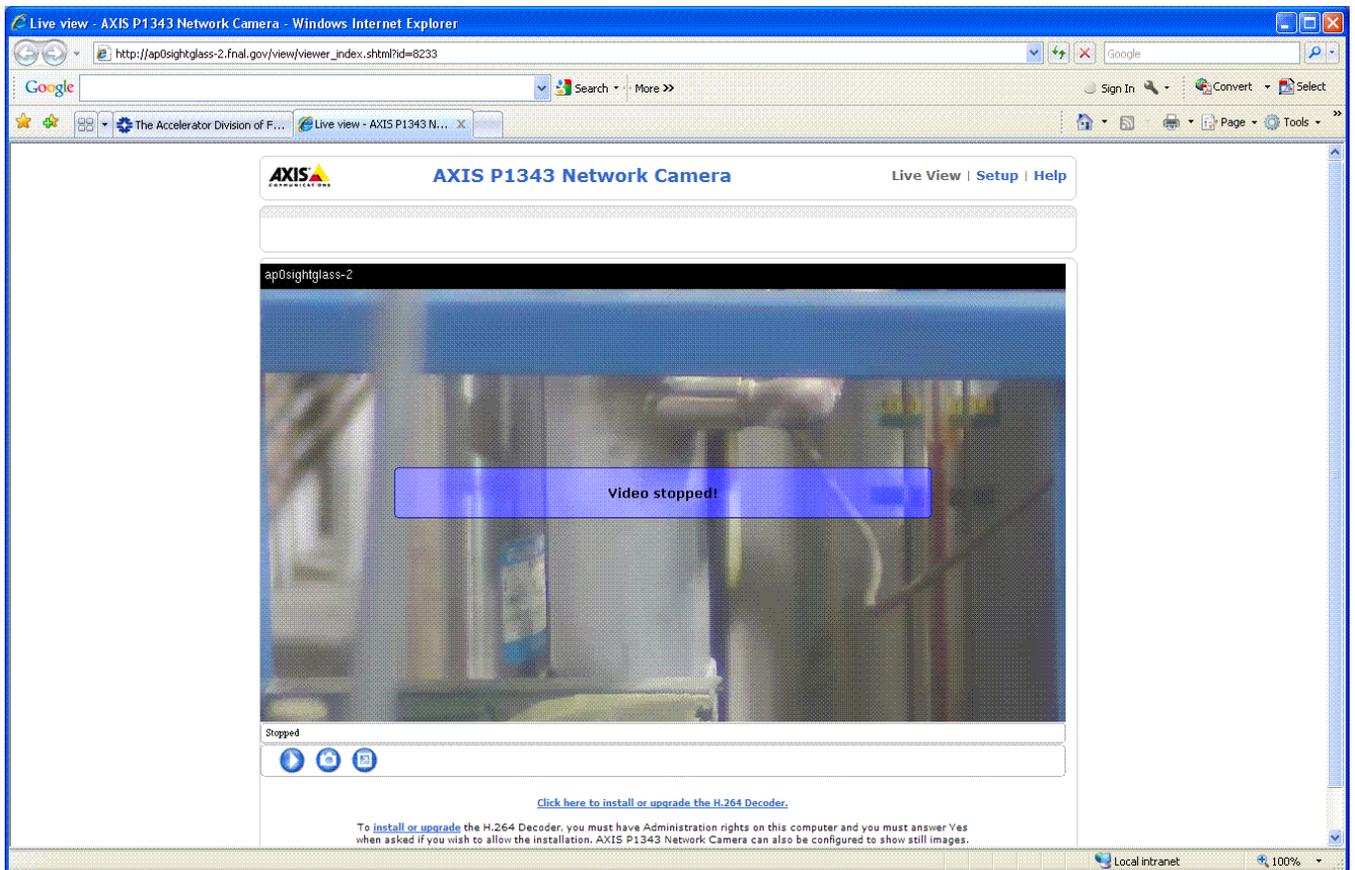
This is one month



This is two months



This is four months



We have a small leak on the dump water system