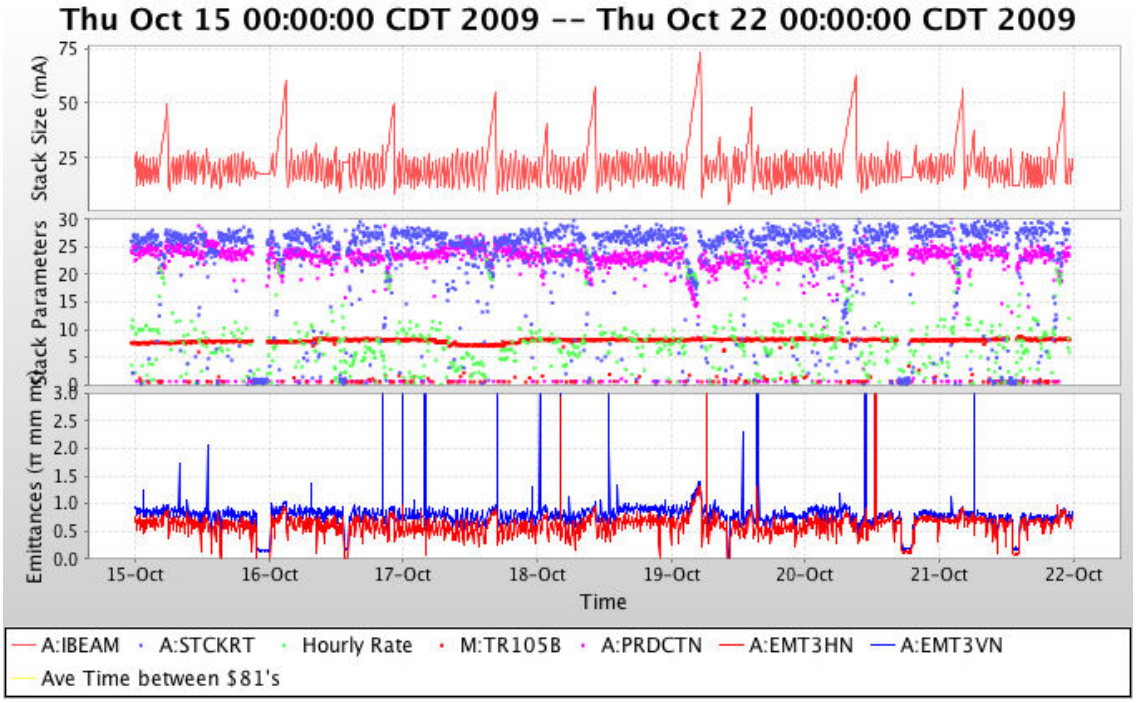
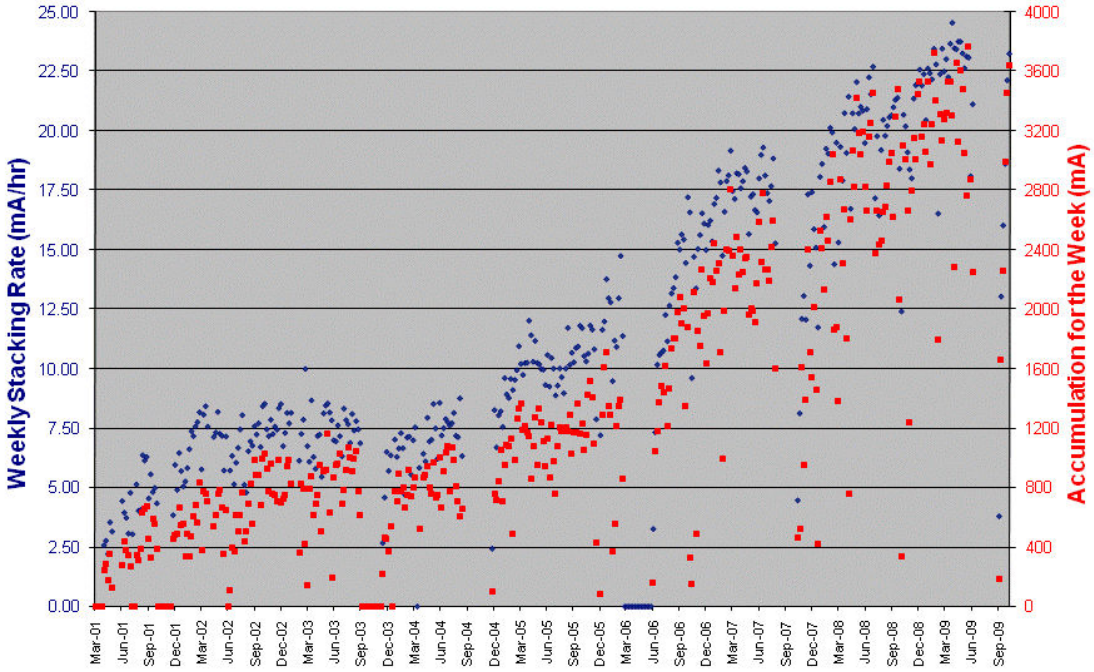
2009-10-22 Pbar Department Meeting

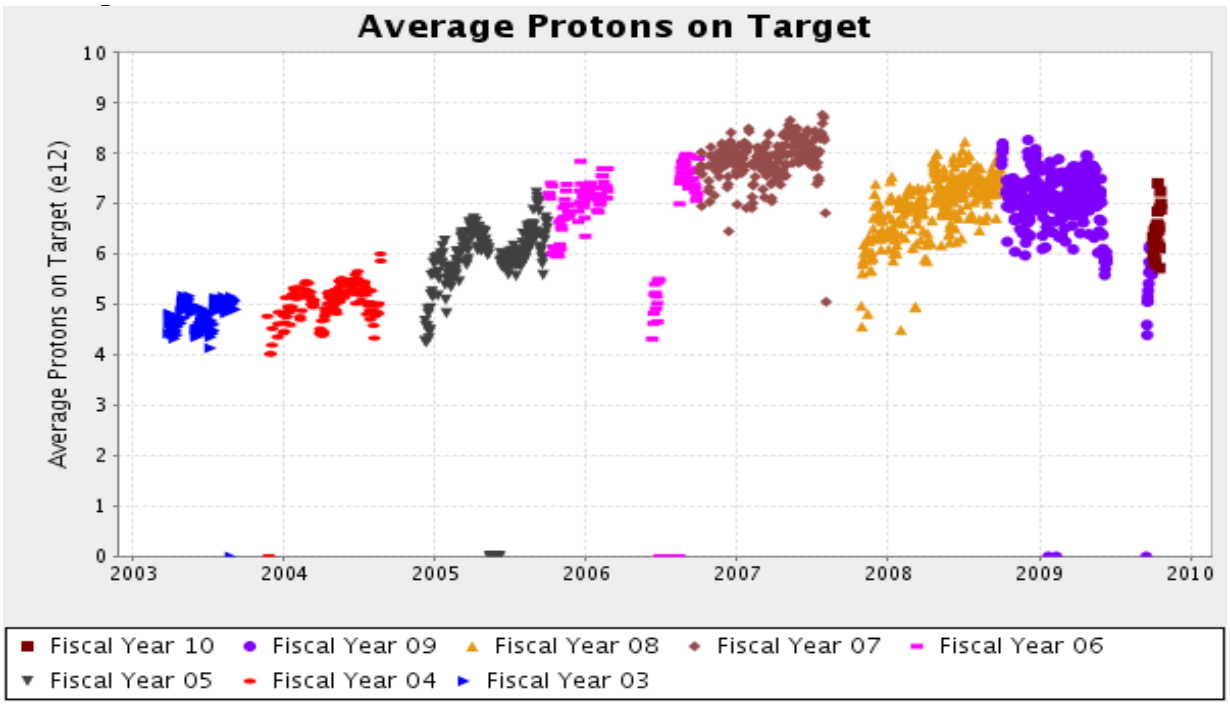
Thursday, October 22, 2009
9:59 AM



- Stacking last week



- Red pbars collected for week.
- Last week was 4th or 5th best week
- Stacking rate is down a little.



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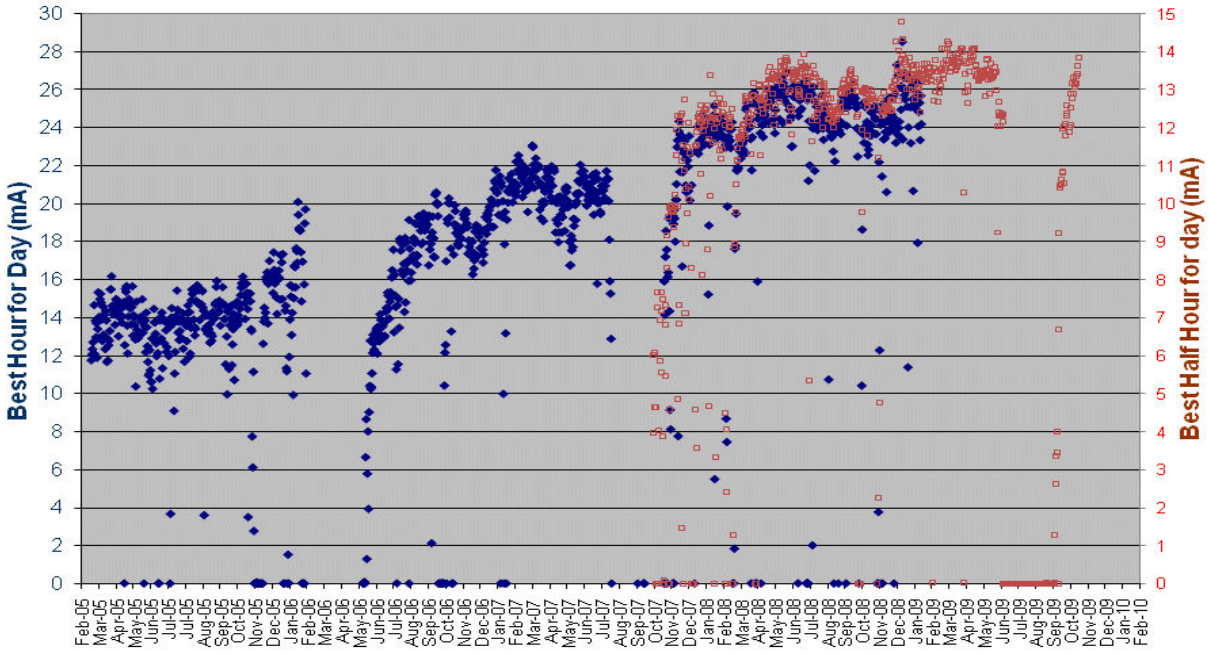
- Almost back to last year.
- Booster will try to get us back to 8e12 on target.



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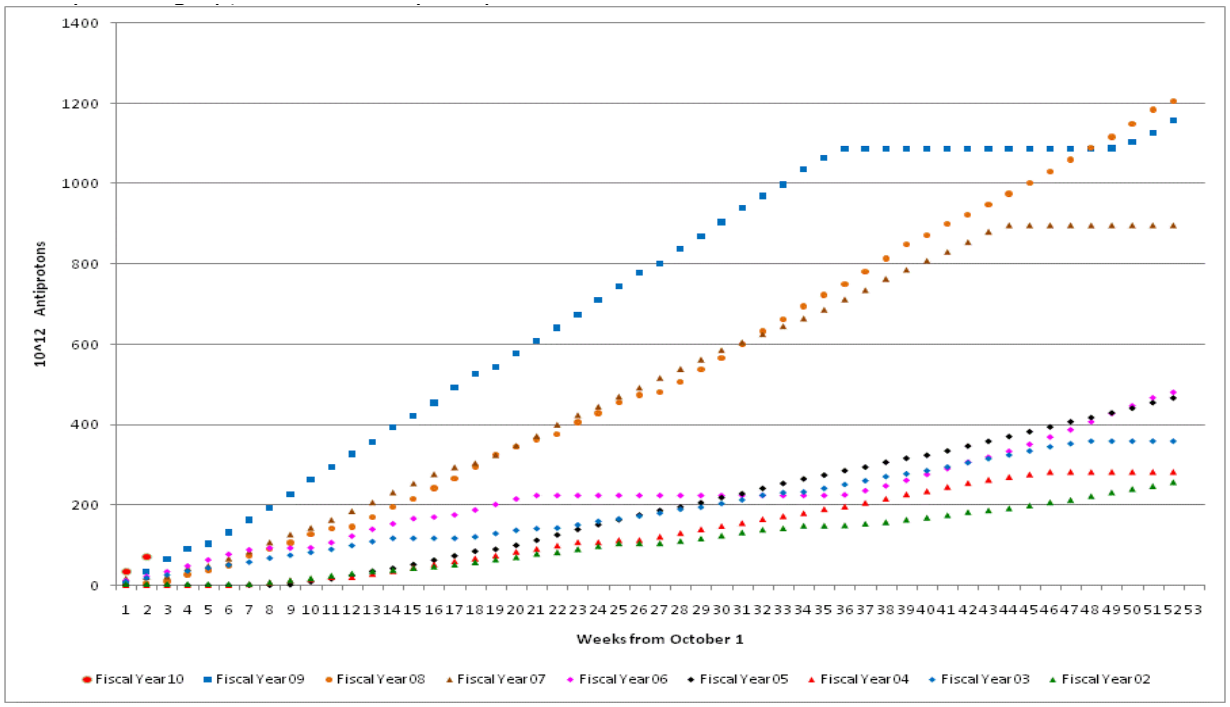
- Best hour of stacking and best 30 minutes.
- Slowly coming up, last three days in particular well.

- 

- Cumulative plot.
- Last year didn't quite match
- First two points for this year look good.
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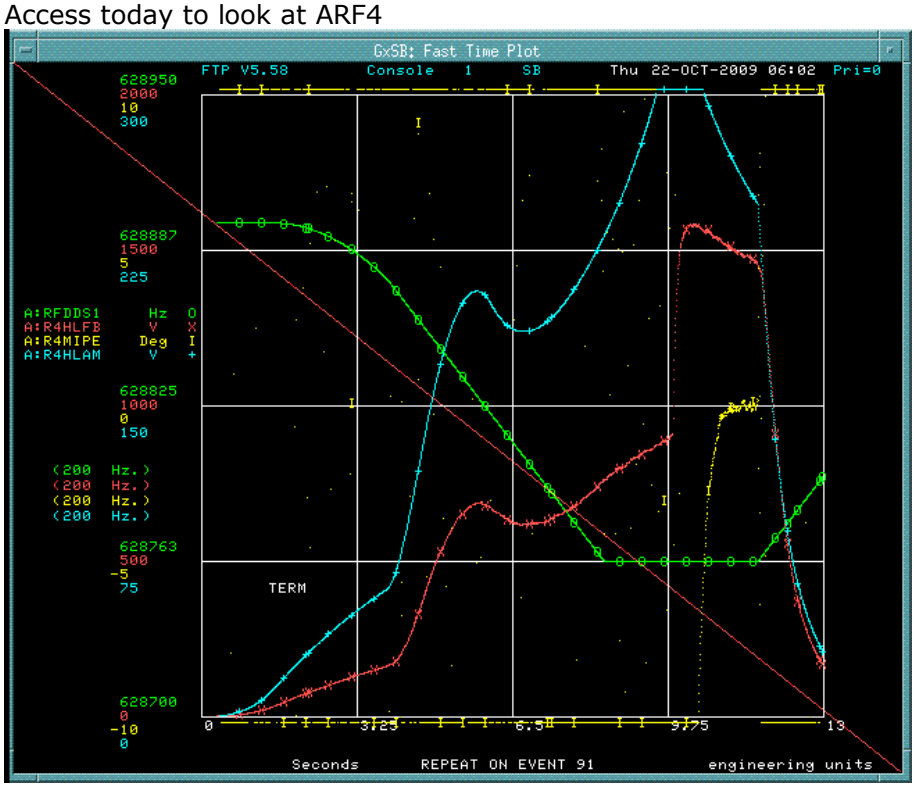
  - We have almost matched 2001 already!
  - Planned Pbar source in Germany is only 9500 on this plot. Upgrade path is to double this. 2018 beam?
- Topics
  - Operations
    - Nearly back (await protons)
    - Stacking
    - Transfers
  - Issues(?)
    - Emittances
      - Horizontal emittance was less than the vertical. Vertical is still bigger, after fix.

after fix.
    - The no beam response of emittance monitors is a few dB different than in 2007
    - Also, DC offset on DCCT is much less.
    - Both of those quantities go into transform.
    - Horizontal went up a lot.
    - Using A:BEAM
    - href=http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar09 &action=view&page=247&anchor=100827&hilite=10:08:27-
- ARF4
    - Taking about a 1/3 more transfers.
    - What we see on the plot is a voltage jump.
    - The voltage request is low at the start.
    - The feedback is working, when the voltage is lower than we want, it
    - Longitudinal emittance low on the transfers taking out. We saw this before the AP0 wall current monitor scope died.
    - Access today to look at ARF4
    - 

- A:QT ground current (seepage onto ceramic?)
- D2A SEMs
    - Cant control gains remotely
    - Wants to try comparing old vs new on SEM806.
        - Take some data.
        - Histogram D44
        - Do old vs new.
        - We will do this next week.
- AP0 Wall Current Monitor
    - Scope died.
    - Prep receieved the scope.
    - The second scope is a different scope.
    - Optimized for old scope.
        - Old TS680 there is a min vertical resolution.
        - That is in the code. That limit may not apply to the 3000 series.
    - Set it for AC coupling. Dave Peterson says this shouldn't matter.
    - Somewhere there is a DC offset.
    - Bandwidth of scope is 1/2 of old scope. This will mean proton torpedo.

- Acc BPMs

        - Have to reboot them.
        - Can check with P207 and reboot any houses have problem
    - Oscillation Overthruster
        - AP2 portion is now working again!
        - No longer have to target tune
        - Keith set orbit to best running conditions.
        - Had to change positions slightly at Septum magnet.
- A3B7
    - Excursion frequency and amplitudes
        - same
    - Tech Div.
        - Magnet is no test stand.
        - Main guy in charge in testing, Mark Thompson, is back from vacation and can start looking at this.
        - There are three sets of coils, there is confusion on the water connections.
- Worklist

Pbar						Pbar			Pbar		
Dept		RunCo		Task Status	Req'r & Priority	For Shutdown	Crew / Key	Description	Type & Location	Duration	RSO Rad Coverage
Ok	Deny	Ok	Deny								
10/22/09 (who)				Complete Delete Help	D. White x6524 10/22/09 10826 Normal	Do-Now short-term	rcts (Keys)	Sump sample (more) (attention of)	ES&H / Interlocks / Pre-Vault	0.2 hour over 1 day	Not Yet Reviewed
10/22/09 (who)				Complete Delete Help	D. Peterson x3073 10/16/09 10815 Normal	Do-Now short-term	Peterson, Sheahan or Dilday (Keys)	Check Cavity (more) (attention of) (manpower)	High Level RF / ARF3-1A	2 hours over 1 day	Not Yet Reviewed
10/22/09 (who)				Complete Delete Help	A. Leveling x4041 10/16/09 10814 Normal	Do-Now short-term	Kelly, Schneider	Check target air blower (more) (attention of)	Target Station / AP0 Target Hall	2 hours over 1 day	Not Yet Reviewed
10/22/09 (who)				Complete Delete Help	A. Leveling x4041 10/16/09 10813 Normal	Do-Now short-term	Zahurones, RCT (Keys)	Radwaste Disposal (more) (attention of)	Target Station / AP0 Water Cage	1.5 hours over 1 day	Not Yet Reviewed
10/14/09 (who)				Complete Delete	K. Gollwitzer x8282 10/14/09 10808	Do-Now short-term	Surveyors (Keys)	"As Found" survey of A3B7 (more) (attention of)	Misc / Acc Dipole A3B7	4 hours over 1 day	Not Yet Reviewed
10/14/09 (who)				Complete Delete Help	D. Peterson x3073 10/14/09 10806 Normal	Do-Now short-term	Peterson, Dilday or others (Keys)	A:MS308V does not move (more) (attention of) (manpower)	Stochastic Cooling / A:MS308V	1 hour over 1 day	Not Yet Reviewed
10/06/09 (who)				Complete Delete Help	K. Gollwitzer x8282 10/06/09 10754 Normal	Do-Now short-term	VanderMeulen, Morgan, Werkema, Gollwitzer, Songeroth, Nagaslaev, Drendel (Keys)	Inspection of Transport (more) (attention of)	Misc / Transport enclosure	1 hour over 1 day	Reviewed Oct 14 2009 09:32AM
10/06/09 (who)				Complete Delete Help	K. Gollwitzer x8282 10/06/09 10753 Normal	Do-Now short-term	VanderMeulen, Morgan, Werkema, Gollwitzer, Songeroth, Nagaslaev, Drendel (Keys)	Inspection of Pbar Rings (more) (attention of)	Misc / Rings enclosure	1 hour over 1 day	Reviewed Oct 14 2009 09:32AM
10/22/09 (who)				Complete Delete Help	A. Leveling x4041 10/05/09 10751 Normal	Do-Now short-term	Leveling, Wisner (Keys)	lens conductivity meters (more) (attention of)	Target Station / Water cage	4 hours over 1 day	Reviewed Oct 14 2009 09:32AM
10/05/09 (who)				Complete Delete	B. Wisner x4769 10/05/09 10738	Do-Now short-term	B. Wisner, C. Bair, M. Dilday, Obie	Tighten PS water hose clamps. (more) (attention of) (manpower)	Power Supply / AP50	2 hours over 1 day	Reviewed Oct 14 2009 09:32AM

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10/05/09 (who)				Complete / Delete / Help	W. Mueller x4698 10/02/09 10730 Normal	Do-Now long-range	Wes Mueller and Pete Seifrid (Keys)	Check band 2 Deb Mom Bypass thru (more) (attention of)	Stochastic Cooling / A30 tunnel Stubroom	3 hours over 1 day	Not Yet Reviewed
10/22/09 (who)				Complete / Delete / Help	A. Leveling x4041 09/28/09 10719 Normal	Do-Now short-term	Leveling, Kelly (Keys)	Test lens makeup water circuit (more) (attention of)	Target Station / water cage	1.5 hours over 1 day	Work Coverage Required
10/05/09 (who)				Complete / Delete / Help	B. Drendel x6572 09/24/09 10710 Low	Do-Now short-term	Pbar Cable Pullers (Keys)	Pull new cable for D:IP403 (more) (attention of)	Vacuum / Pbar Rings Enclosure	2 hours over 1 day	Reviewed Oct 14 2009 09:32AM
10/22/09 (who)				Complete / Delete / Help	V. Lebedev x2558 09/16/09 10661 Normal	Do-Now short-term	Dave Vander Meulen (Keys)	Debuncher Notch Filet inspection (more) (attention of)	Stochastic Cooling / Debuncher	0.25 hour over 1 day	Reviewed Oct 14 2009 09:32AM
09/01/09 (who)				Complete / Delete / Help	M. Dilday x3757 09/01/09 10566 Normal	Do-Now long-range	Mark Dilday, Greg Brown (Keys)	Measure wireless signal in PBAR (more) (attention of) (manpower)	Misc / All sectors of tunnel	2 hours over 1 day	Not Yet Reviewed
09/01/09 (who)				Complete / Delete / Help	C. Mcclure x3580 08/31/09 10565 Normal	Do-Now long-range	Craig McClure & Mike Coburn	PBAR TWTPM (more) (attention of)	Controls / AP-10, AP-20, AP-30 service buil	4 hours over 1 day	Not Yet Reviewed
09/01/09 (who)				Complete / Delete / Help	B. Wisner x4769 08/31/09 10562 Normal	Do-Now long-range	B. Wisner, C. Bair, M. Dilday, Obie (Keys)	Replace PS water hoses. (more) (attention of) (manpower)	Power Supply / AP0,10,30,50,F23,F27	120 hours over 10 days	Not Yet Reviewed
06/23/09 (who)				Complete / Delete / Help	B. Drendel x6572 06/23/09 10501 Normal	Do-Now long-range	TD (Keys)	PBV2 LCW leak (more) (attention of)	Water / Pbar PreTarget	1 hour over 1 day	Not Yet Reviewed
06/23/09 (who)				Complete / Delete / Help	M. Obrycki x4836 11/19/08 9310 Low	Do-Now short-term	2 interlock techs (Keys)	Sled drawings/ panel schedules (more) (attention of)	ES&H / Interlocks / AP-10 tunnel	2 hours over 1 day	Reviewed Feb 19 2009 08:49AM

Total Requests: 19 — Total Keys asked for:41 (detail)

Confirm All Changes

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Grand Total Requests: 19 — **Grand Total Keys asked for:41** (detail)

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