RHIC Machine/Detector Planning Meeting

Agenda 31 Jan 06

- **Scheduling Physicist (Brown) - Scheduling issues**
- **AGS cold snake progress report – (Huang)**
- **Experiments – STAR, PHENIX, BRAHMS**
  - **Goals update based on present run plan**
- **Machine (Ptitsyn) - issues**
- **AGS Polarimeter (Huang) - issues**
- **RHIC Polarimeters (Bunce) – issues**
- **Jet Target (Makdisi) - issues**
- **RCF (Throwe) - issues**

Planning Meeting Web Site: http://www.c-ad.bnl.gov/esfd/RMEM_06/rhic_planning.htm

The Plan, pp Run6

$\sqrt{s}$ = 200 GeV/c (1st 11 weeks)

- **Option A**
  - 1st 4 weeks physics
    - STAR Transverse
    - PHENIX Radial
  - Next ? Weeks of physics
    - STAR Transverse
    - PHENIX Longitudal
  - When STAR samples 5 pb^{-1} Switch to
    - STAR Longitudal
    - PHENIX Longitudal
- **Option B**
  - 1st 4 weeks physics
    - STAR Longitudal
    - PHENIX Radial
  - Next ? Weeks of physics
    - STAR Transverse
    - PHENIX Longitudal
  - When STAR samples 5 pb^{-1} Switch to
    - STAR Longitudal
    - PHENIX Longitudal

$\sqrt{s}$ = 62.4 GeV/c (next 2 weeks)

- 2 weeks physics
  - STAR (?)
  - PHENIX Radial (?)

$\sqrt{s}$ = 500 GeV/c (last 1 week)

- Machine Development

- **0.5 week contingency, used to be determined**

Option A or B will be chosen by STAR week of 20 Feb (?)

Experiment Goals (needs to be checked)

	$\sqrt{s}$	Pol. Config.	Recorded L	Delivered L	Pol	weeks
PHENIX:	200 GeV	Radial	5-7 pb^{-1}	12-17 pb^{-1}	$\geq$ 50%	3-4
	200 GeV	Longitudinal	◯ pb^{-1}	◯ pb^{-1}	$\geq$ 50%	7
	62.4 GeV	Trans (Radial?)	0.6 pb^{-1}	1.4 pb^{-1}	$\geq$ 50%	2
	*22 GeV		4 nb^{-1}	10 nb^{-1}		
STAR:	200 GeV	Transverse	5 pb^{-1}	15 pb^{-1}	$\geq$ 50%	~ 4
	200 GeV	Longitudinal	10 pb^{-1}	30 pb^{-1}	$\geq$ 50%	~7
	62.4 GeV	Transverse	◯ pb^{-1}	◯ pb^{-1}	$\geq$ ◯	2
BRAHMS:	62.4 GeV	Transverse	◯ pb^{-1}	1.4 pb^{-1}	~ 50%	2

* Not in present plan

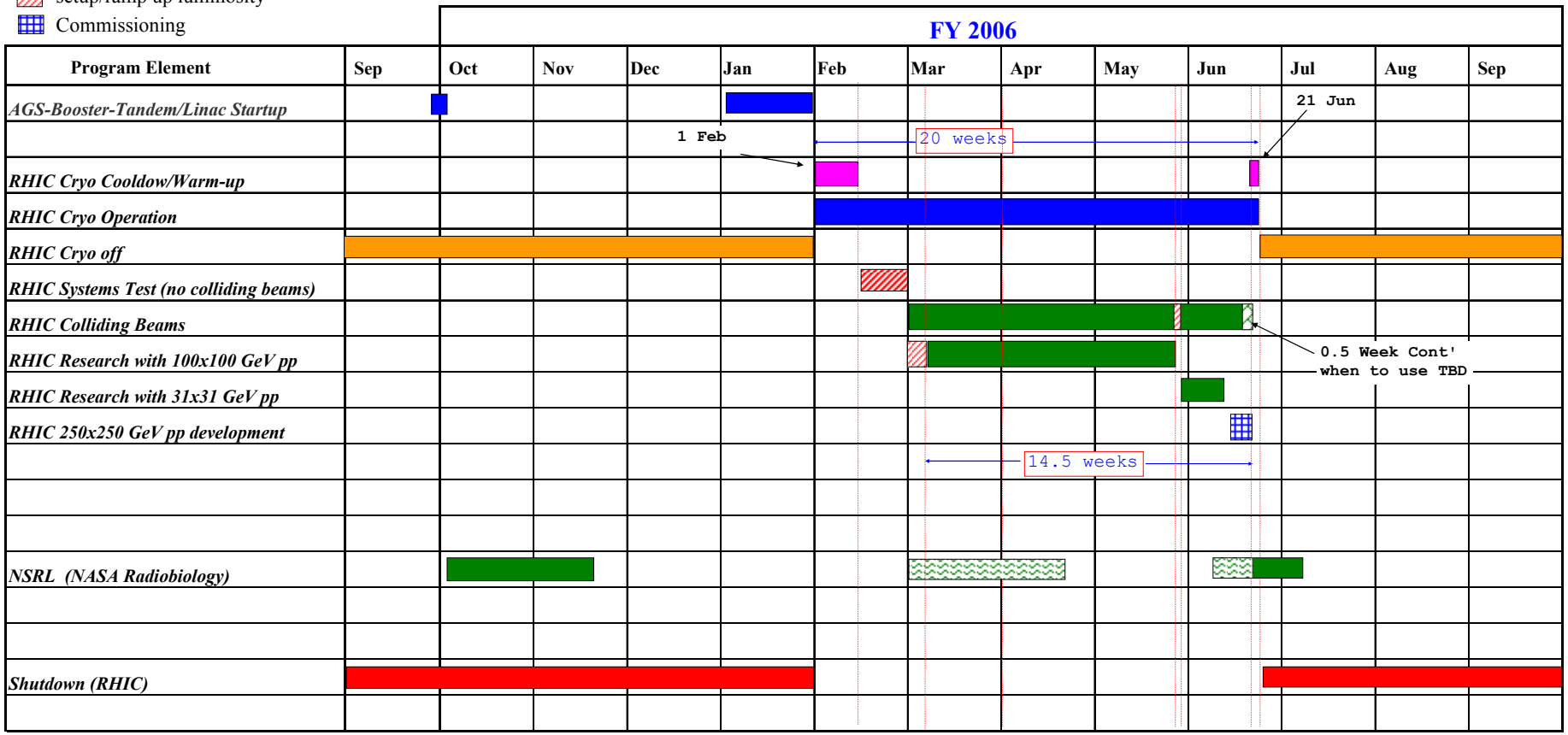
http://www.c-ad.bnl.gov/esfd

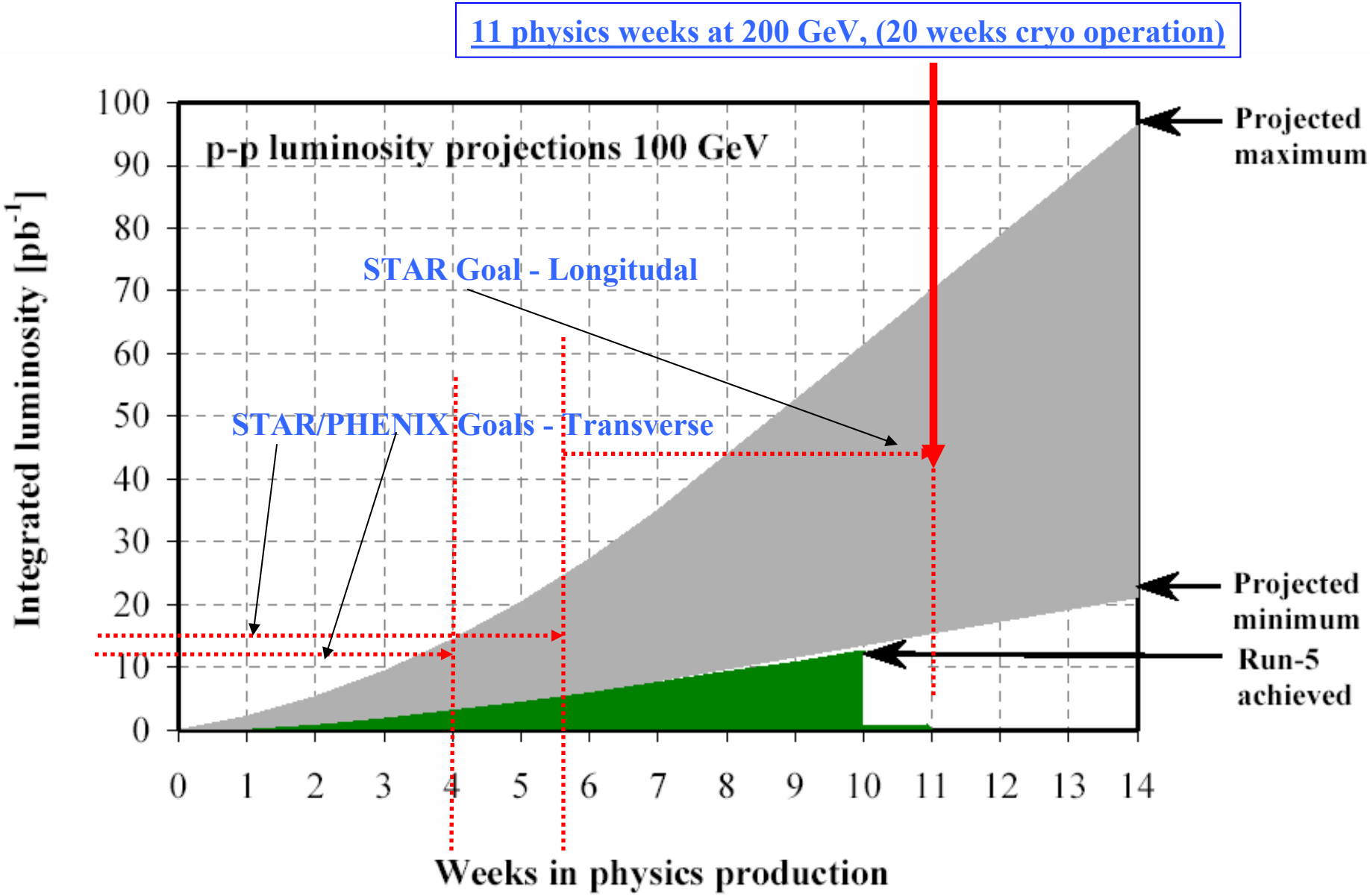
C-A Operations-FY06

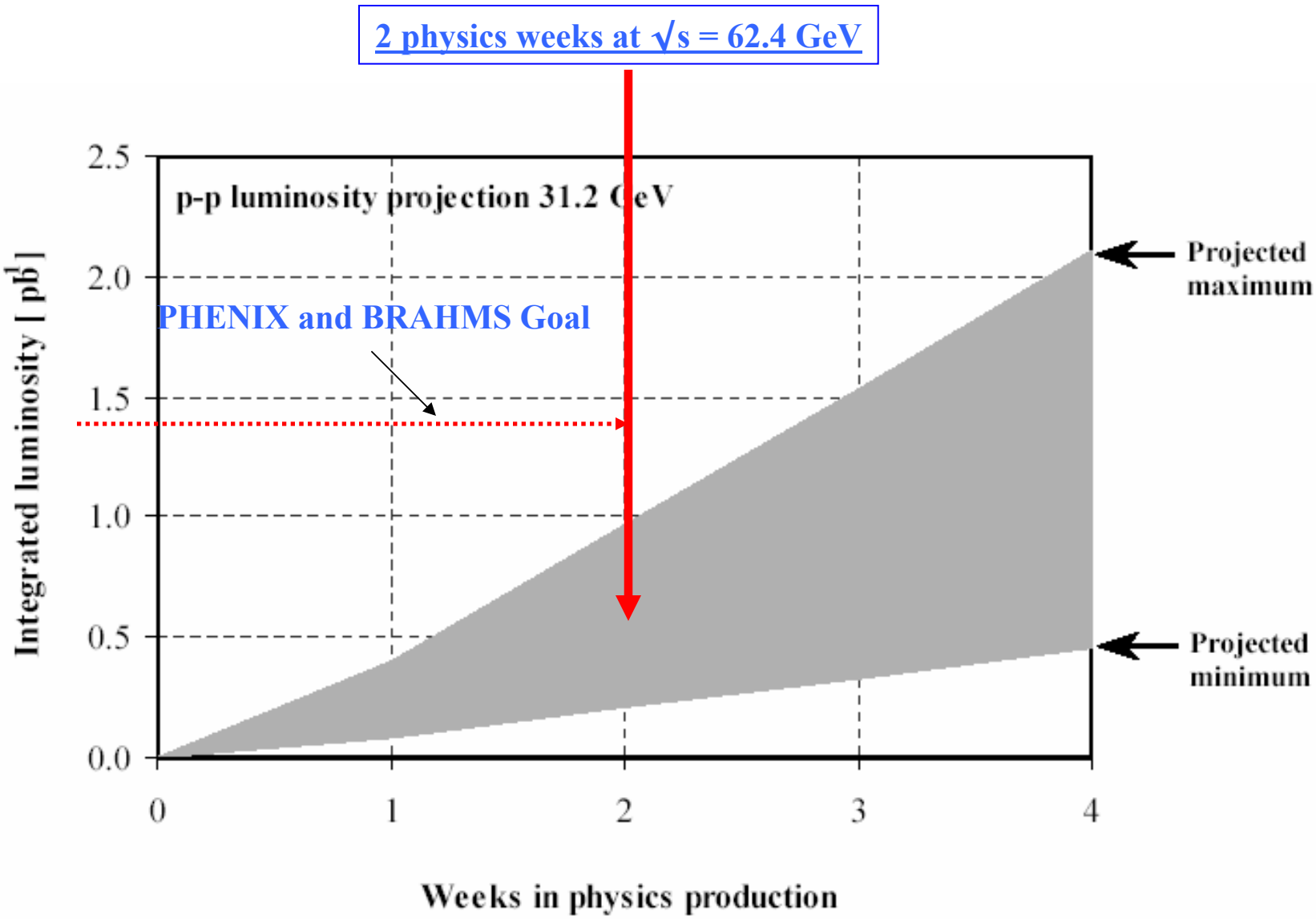
30 Jan 06

The Plan

- Contingency
- schedule to be determined
- setup/ramp up luminosity
- Commissioning




11 physics weeks at 200 GeV, (20 weeks cryo operation)
p-p luminosity projections 100 GeV
STAR Goal - Longitudal
STAR/PHENIX Goals - Transverse
Projected maximum
Projected minimum
Run-5 achieved
Integrated luminosity [pb^{-1}]
Weeks in physics production
0
10
20
30
40
50
60
70
80
90
100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14


2 physics weeks at √s = 62.4 GeV
p-p luminosity projection 31.2 GeV
PHENIX and BRAHMS Goal
Projected maximum
Projected minimum
Integrated luminosity [pb⁻¹]
2.5
2.0
1.5
1.0
0.5
0.0
0
1
2
3
4
Weeks in physics production

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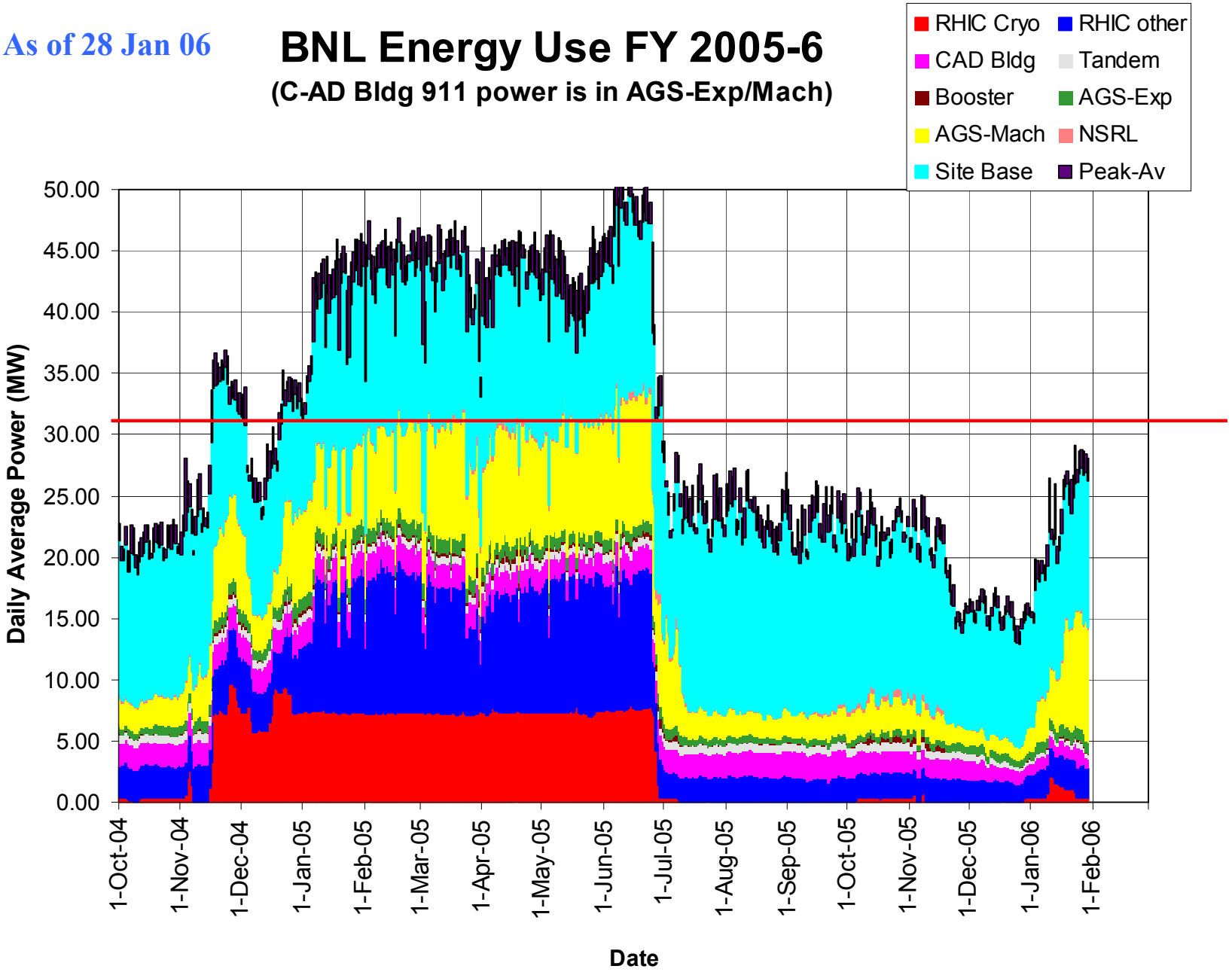
Archive

As of 28 Jan 06

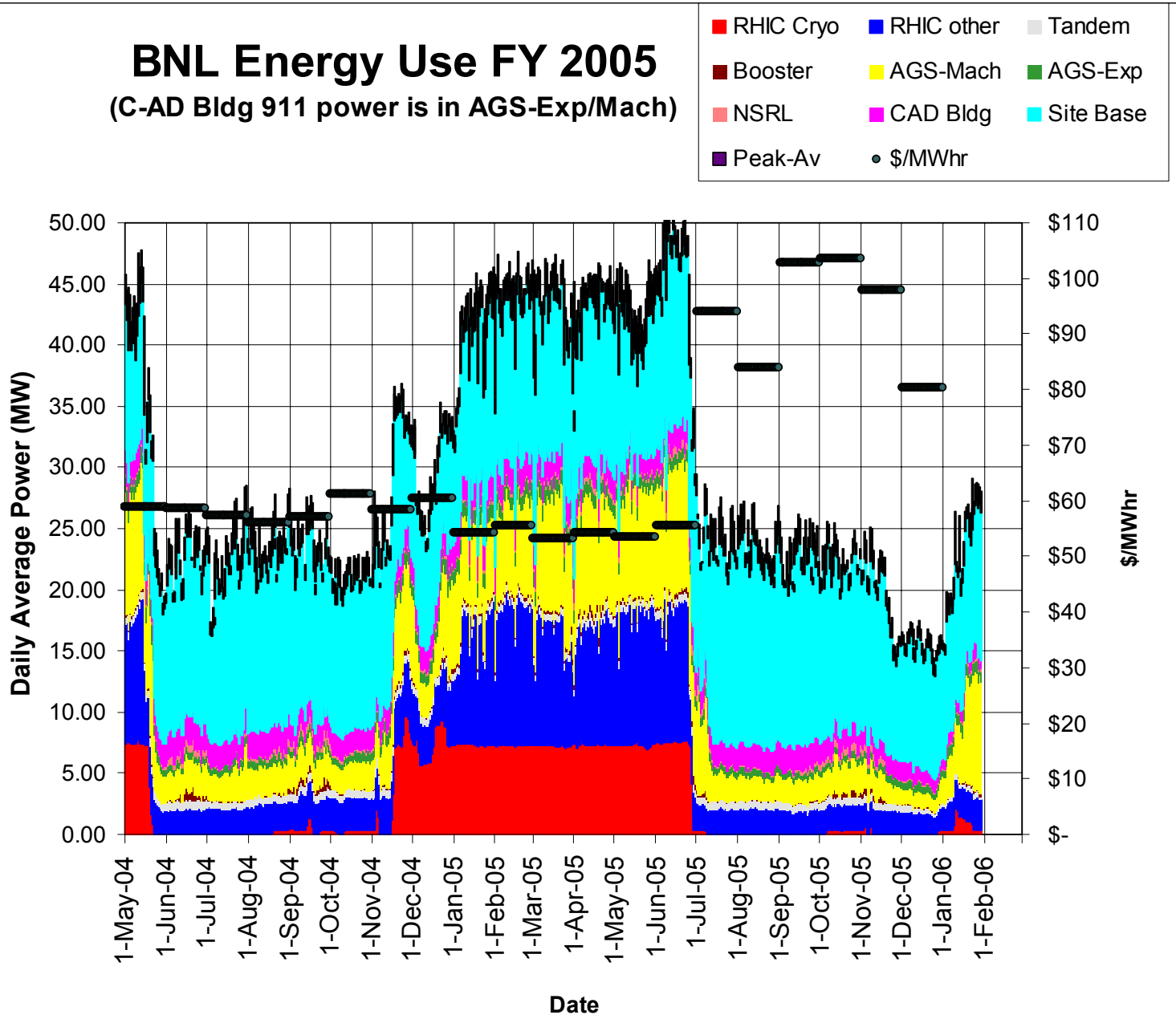
BNL Energy Use FY 2005-6

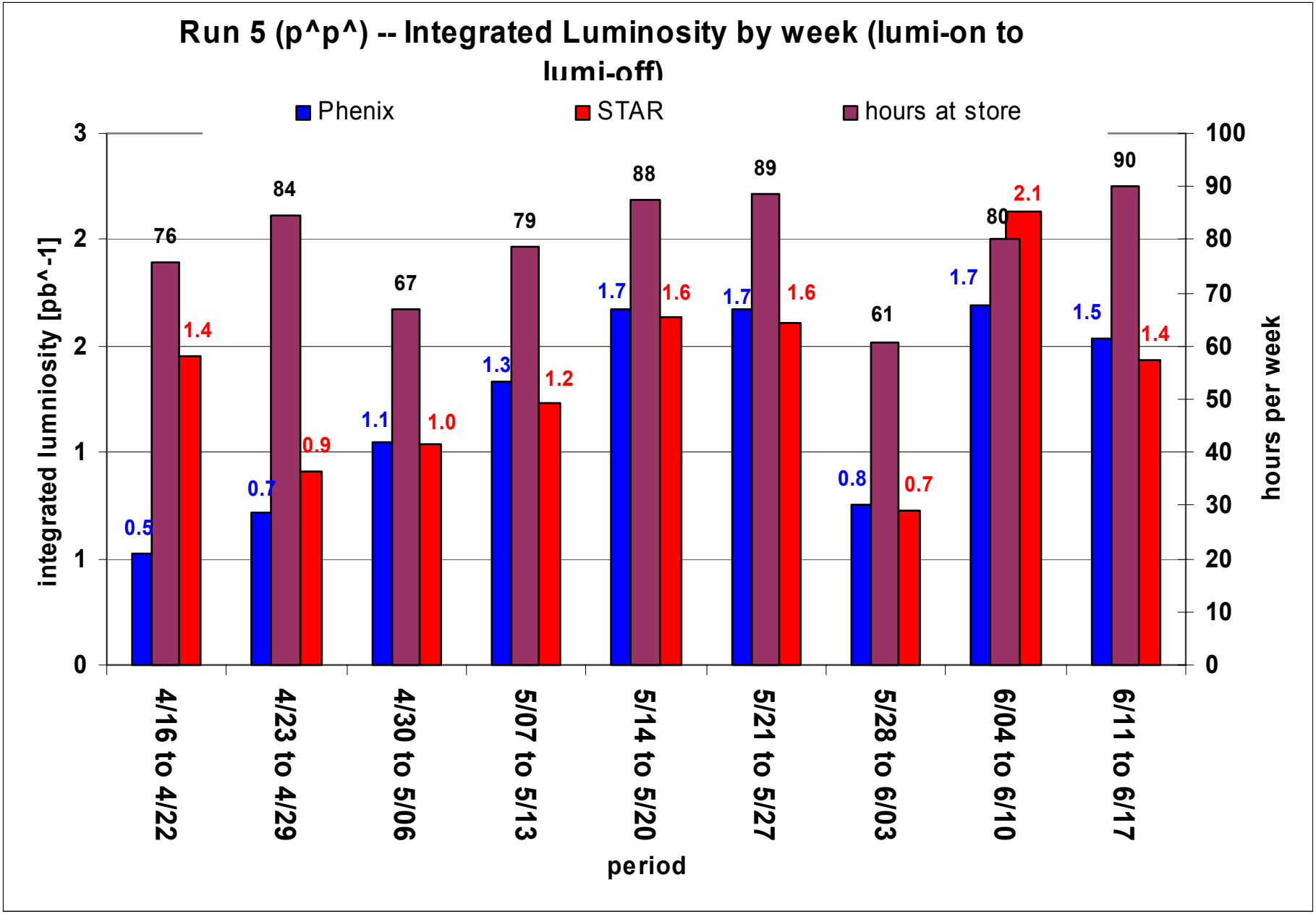
(C-AD Bldg 911 power is in AGS-Exp/Mach)



BNL Energy Use FY 2005

(C-AD Bldg 911 power is in AGS-Exp/Mach)



As of 28 Jan 06

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