



... for a brighter future

APS/Users Operations Monthly Meeting

J. Murray Gibson

December 17, 2008



U.S. Department
of Energy

UChicago ►
Argonne_{LLC}



A U.S. Department of Energy laboratory
managed by UChicago Argonne, LLC

Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update – Murray Gibson
- 3:05 p.m. APS Internal Assessment of the Short Pulse (SPX) Project – Rod Gerig
- 3:25 p.m. 12-ID Upgrade to Two Independent Beamlines – Randall Winans
- 3:45 p.m. Adjourn

Budget challenges and opportunities

- Need ~\$10M for adequate operations in FY2009
 - Are able to use \$7.3M supplemental funds to tide us over until April
 - Still have base operating budget of \$105M from FY2007
- Ideally need base increase of \$11.5 M this year (President's '08 level) with a similar increase in FY2010
- Likely FY'09 funding will be in an omnibus bill (January '09)
- Another stimulus bill offers additional possibilities, but will focus mostly on construction projects

APS FY 2009 – With Budget Limitations Long Range Operations Schedule

Run 2008-03			Run 2009-01				Run 2009-02				
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	1 4 →	1	1	1	1 1 →	1	1	1	1 4 →	1	1
2	2 4 →	2	2	2	2 1 →	2	2	2	2 4 →	2	2
3	3 4	3	3	3	3 1	3	3	3	3	3	3
4	4	4	4	4	4 1 →	4	4	4	4	4	4
5	5 1 →	5	5	5	5 1 →	5	5	5	5	5	5
6	6 1 →	6	6	6	6 1 →	6	6	6	6 1 →	6	6
7	7 1 →	7	7	7	7 1 →	7	7	7	7 1 →	7	7
8	8 1 →	8	8	8	8 1 →	8	8	8	8 1 →	8	8
9	9 1 →	9	9	9	9 1 →	9	9	9	9 1 →	9	9
10	10 1 →	10 4 →	10	10	10 1	10	10	10	10 1 →	10	10
11	11 1	11 4 →	11	11	11 4 →	11	11	11	11 1 →	11	11
12	12 1 →	12 4 →	12	12	12 4 →	12	12	12	12 1 →	12	12
13	13 1 →	13 4 →	13	13	13 4 →	13	13	13	13 1 →	13	13
14	14 1 →	14 4 →	14	14	14 4 →	14	14	14	14 1	14	14
15	15 1 →	15 4 →	15	15	15 4 →	15	15	15	15 1 →	15	15
16	16 1 →	16 4	16	16	16 4 →	16	16	16	16 1 →	16	16
17	17 1 →	17 4 →	17	17	17 4	17	17	17	17 1 →	17	17
18	18 1	18 4 →	18	18	18 4 →	18	18	18	18 1 →	18	18
19	19	19 4 →	19	19	19 4 →	19	19	19	19 1 →	19	19
20	20	20 4 →	20	20	20 4 →	20	20	20	20 1	20	20
21	21	21 4 →	21	21	21 4 →	21	21	21	21	21	21
22	22	22 4	22	22	22 4 →	22	22	22	22	22	22
23	23	23	23	23	23 4	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24 4 →	24	24	24
25	25	25	25	25 1 →	25	25	25	25 4 →	25	25	25
26	26	26	26	26 1 →	26	26	26	26 4 →	26	26	26
27	27	27	27	27 1 →	27	27	27	27 4 →	27	27	27
28	28 4 →	28	28	28 1 →	28	28	28	28 4 →	28	28	28
29	29	29	29	29	29	29	29	29 4 →	29	29	29
30	30 4 →	30	30	30	30	30	30	30 4 →	30	30	30
31	31 4 →	31	31	31	31	31	31	31	31	31	31

User Operation in standard lattice
 User Operation in Reduced Horizontal Beam Lattice (RHB)

Top-Up Operations is standard unless indicated in fill pattern

SOM Periods
 1 Hybrid Fill - (singlet)
 4 324 Singlets - Non Top-Up

Fill pattern is 24 singlets unless otherwise indicated by number

Machine Studies
 Maintenance
 Shifts set aside for Studies/ Machine Intervention as Needed

Weekends
 Lab Holidays
 Anticipated Extension Of Maintenance Periods due to Budget Limitations

12/16/2008

APS Renewal

- Very successful October workshop – thanks!
- Themes identified:
 - Sets science targets for the renewal
 - *Mastering hierarchical structures through imaging*
 - *Real materials in real conditions in real time*
- White paper well received by DOE
- Next target – full proposal
 - Immediate steps (by February 2009)
 - *Publish full report of science workshop*
 - *Flesh out plans for instrumentation in response to science themes*
 - Open forum in January
 - *Get SAC input on instrumentation plans*
 - User meeting of May 2009 will be a major milestone

Renewal of the Advanced Photon Source



A white paper prepared for the
Department of Energy, Office of Science,
Office of Basic Energy Sciences
by the management and users of the
Advanced Photon Source

QSAR Awards

- Given to Argonne DEEs for their efforts to inspect at least 40% of the electrical equipment which needed to be inspected or discarded
 - Had to inspect/discard 17949 out of 44872 items total on site – 22898 items actual inspected (51%)
- APS has the most equipment
 - Total of 18105 items (40% of site total)
 - Inspected/discarded 7564 items (41.8%) of APS total items)
- We thank the following:

AES

Raymond Davis

John Dench

Bruno Fieramosca

Mark Gibson

Wayne Michalek

Bill Wesolowski

Dean Wyncott

ASD

Thomas Beilfus

Adam Brill

Alexander Cours

Boris Deriy

Chuck Doose

Albert Hillman

James Lang

Marvin Lien

Mark Moser

XSD

Jonathon Baldwin

Harold Gibson

Michael McDowell

Michael Pape

Lynn Ribaud

Tim Smith

Michael Wieczorek

PNS

Beverly Marzec

PSC USR

Eric Rod

Benjamin Stillwell

Joseph Von Osinski

Other announcements

- Photon Sciences – the directorate formerly known as SUF
- XSD Director Search update
- Compton award nominations
- New user agreements

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