



Argonne
NATIONAL
LABORATORY

... for a brighter future

APS/Users Operations Monthly Meeting

August 23, 2006

News and APS Update

J. Murray Gibson



U.S. Department
of Energy



A U.S. Department of Energy laboratory
managed by The University of Chicago

Agenda

2:30 p.m. – Refreshments

2:45 p.m. – News and APS Update - Murray Gibson

3:00 p.m. – APSUO Update: Users' Meeting, Subcommittee,
and Advocacy - Tim Graber

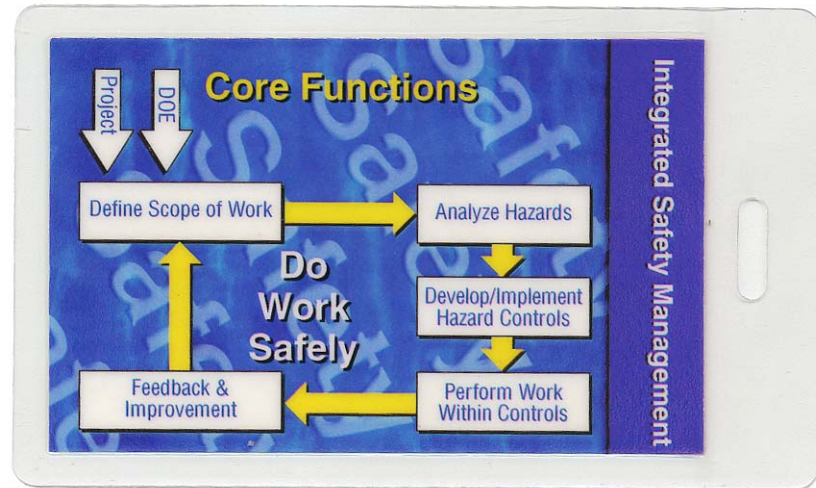
3:10 p.m. – User Shop Usage Experience - John Quintana

3:20 p.m. – Paths for Improvements in Beam Stability - John Carwardine

3:30 p.m. – Adjourn

Safety topic

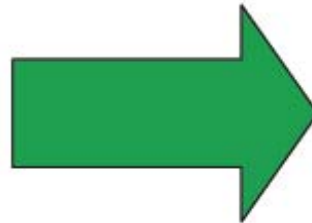
- Work planning and control is critical to ISM
- EQO is reviewing this at APS next week



Upgrade news

- Machine advisory committee being appointed
 - Aiming for meeting Nov 15th, 16th
 - Will make information on technical options available on website
 - Encourage science groups, e.g. SIGs, to look at new options, especially ERL
 - *Primary interfaces are Denny Mills/George Srajer re x-ray science, Rod Gerig re accelerator*
- Plan to move ahead with short-pulse capability on Sector 7 using room-temperature RF cavities

University of Chicago LLC wins contract to run Argonne



Employees
Existing Subcontracts
Healthcare and Insurance Benefits
Pension Plans
Length of Service Credit
Accrued Leave Balances
Retiree Healthcare Coverage
University Tuition Benefits
Educational Appointments

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JACOBS



Competition for new IDs and front ends

- From independent sectors at APS
 - All XOR sectors submitted through XSD
 - *XOR partnerships encouraged*
- Can request insertion devices with new period, canted or multiple in-line devices
- Short proposals must identify
 - Scientific impact
 - Integration with APS Strategic Plan
 - Source of funds*
- Encourage close discussions from the very beginning with our insertion device experts (contact Liz Moog MOOG@aps.anl.gov), and with our XOR strategic planning (contact George Srajer SRAJERG@aps.anl.gov).
- Letters of Intent, deadline December 1, 2006
- SAC Review – aim to start Fall 2007 with installations (resources permitting)

*APS can provide resources for IDs and front ends

IG Audit of APS proprietary research

■ IG Audit of proprietary charges

– OUR ALGORITHM

- *Per Hour Rate = Facility Operating Budget / (6000 hours * 70 beamports)*

- Hours and beamports based on final facility build out

- Audit will recommend going to cost recovery based on actual no. of hours and beamlines effective 2006 (would be an 80% increase)

- Ignores positive effect of \$19M capital/operating investment by proprietary users, and long period for buildout of large facility like APS

- BES supports our position opposing this argument, but decision lies with Argonne Site Office

- *No matter what we expect an increase over next two years*

- or sooner

Other findings on efficiency of billing, need for upfront payment etc. are being dealt with

Discontinue 1296 singlet mode?

APS FY 2007 Long Range Operations Schedule

Run 2006-03				Run 2007-01				Run 2007-02			
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	1 4 →	1	1	1	1 4 →	1	1	1	1	1	1
2	2 4 →	2	2	2	2 4 →	2	2	2	2	2	2
3	3 4 →	3	3	3	3 4 →	3	3	3	3	3	3
4	4 4 →	4	4	4	4 4 →	4 1 →	4	4	4	4	4
5	5 4 →	5	5	5	5 4 →	5 1 →	5	5	5	5	5
6	6 4 →	6 1 →	6	6	6 4	6 1 →	6	6	6	6	6
7	7 4	7 1 →	7	7	7	7 1 →	7	7	7	7	7
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12	12 4 →	12 1	12	12	12	12 1 →	12	12	12	12	12
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14	14	14 5 →	14	14	14	14 1 →	14	14	14	14	14
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29	29	29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30	30	30
31	31	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
 5 1296 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

08/21/2006

Pacesetter

Phil McNamara of the System Interlocks Group and Marty Smith of the Controls Group cooperatively developed the Version 3 Front End Equipment Protection System controls and EPICS interfaces for APS front ends making the system easier to use, understand, implement and manage. Their team effort and communication crossed group boundaries which helped to make the project a success. This teamwork is a model to be followed by all.

