### Machine Update

### **NSLS Town Meeting**

**Emil Zitvogel** 

**Tuesday October 28, 2014** 





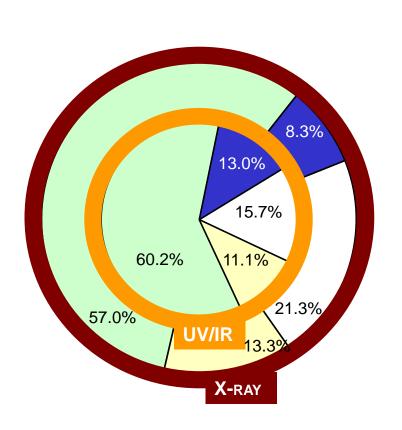
### **Topics**

- FY 2014 Statistics
- > Details of the Final NSLS Shut Down
- NSLS Stabilization
- ➤ Moving to NSLS-II
- Progress at NSLS-II
- Closing Remarks





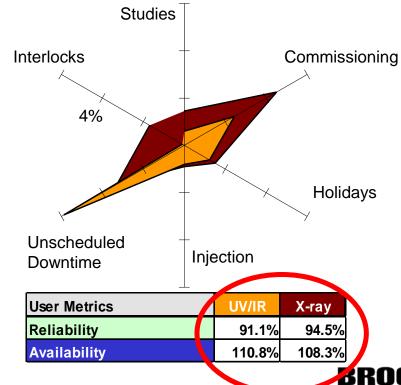
#### **FY2014 Statistics**



Activity /Hours	UV/IR	X-ray
Operations	5270.5	4995.2
Unscheduled Operations	1142.9	726.5
Maintenance	1378.4	1869.0
Other	968.2	1169.3

Other Activities	UV/IR	X-ray
Studies	0.6%	1.5%
Com/Con	2.4%	4.5%
Holiday	1.2%	1.5%
Injection	0.8%	0.9%
Unscheduled Downtime	5.9%	3.3%
Interlock	0.1%	1.7%

YTD 8760 Hrs 100 Hrs= 1.1%



Despite
some very
rough
months, the
machines
performed
well at the
end



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## Last Light Celebration





#### Behind the Scenes

- The morning of 9/30 began with a moderate power dip that dumped beam in both rings at 7:45.
- Beam was injected and all looked well until a report came in of an overheat condition in a 480 V feed for chiller 1. We switched to site chilled water seamlessly and locked out the panel.
- During the ceremony in the control room, one of the workstations that Gary was going to use to shutdown the x-ray ring locked up. You can see him in the background calmly restarting the machine which was up and running for the final beam dump.



#### **NSLS Stabilization**

- Following the last light festivities, the Operations staff executed the shutdown checklists and broke security, which put the machines into a shutdown mode.
- The next day Power Systems, Electricians, Vacuum, Diagnostics, and Utility Group members began to:
  - Isolate 208 and 480 VAC to high power equipment using disconnect switches
  - Short capacitor banks
  - Unplug corded equipment
  - Bleed up the vacuum pipes with dry nitrogen
  - Drain water from pumps and water-cooled components
  - Turn off micro's, UPSs & workstations
- These activities are complete or are progressing very well.

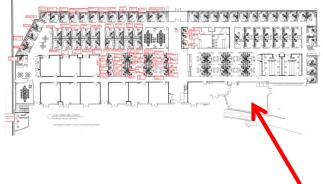




### Moving to NSLS-II

Operators have now moved into a new control room in LOB4.





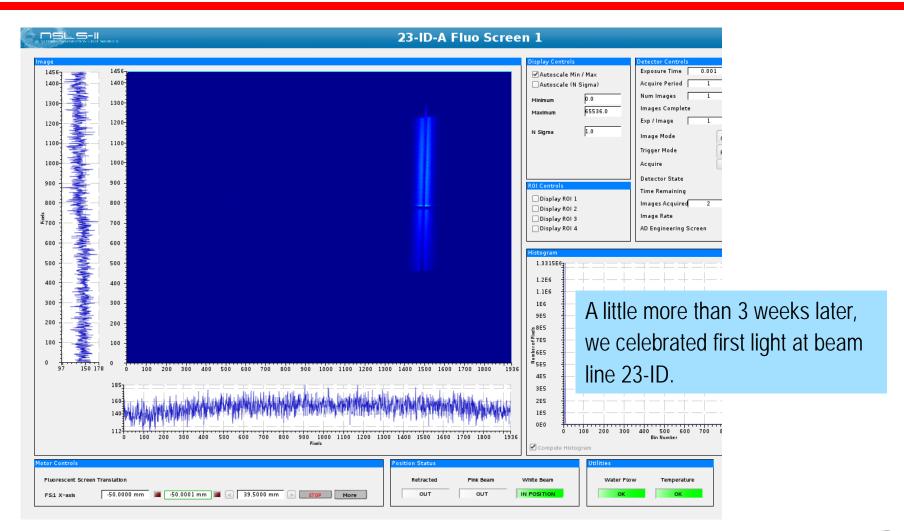
Please stop by sometime to have a look

BROOKHAVEN SCIENCE ASSOCIATES

The Floor Coordinators have a new home in the FC office outside of LOB3



# From NSLS Last Light to NSLS-II First Light







## Other NSLS-II Commissioning Progress

- Fault studies have been completed at 23-ID at 50 mA.
- Commissioning the damping wiggler at 28-ID began this past weekend at 0.5 mA.
- PPS testing and certification is complete for 5-ID, 10-ID & 11-ID.
- PPS testing and certification at 3-ID will be completed this week.





## **Closing Remarks**

NSLS has provided user light for more than 3 decades and ran well right up to the end

We are all proud to have been a part of that history

The torch has been passed to NSLS-II where we expect many more decades of user beam that will far surpass the capabilities of NSLS

Thank you all



