

# APS/Users Operations Meeting

J. Murray Gibson

July 21, 2010

# Agenda

- 2:30 p.m. Refreshments
- 2:45 p.m. APS Update – Murray Gibson
- 3:05 p.m. Upgrade Update – Mohan Ramanathan
- 3:25 p.m. Outreach and Development at the APS – Walter Lowe
- 3:45 p.m. Adjourn



# Recent Electrical Incidents

Technician leaned against network analyzer cart and grounded klystron housing – felt tingling sensation in elbow – 60 VAC differential between cart and grounded housing



Graduate student user moved heat tape and it sparked – small arc flash burned hole in braided SS water line no shock



User then “repaired” the heat tape wire – returned to service without DEEI inspection

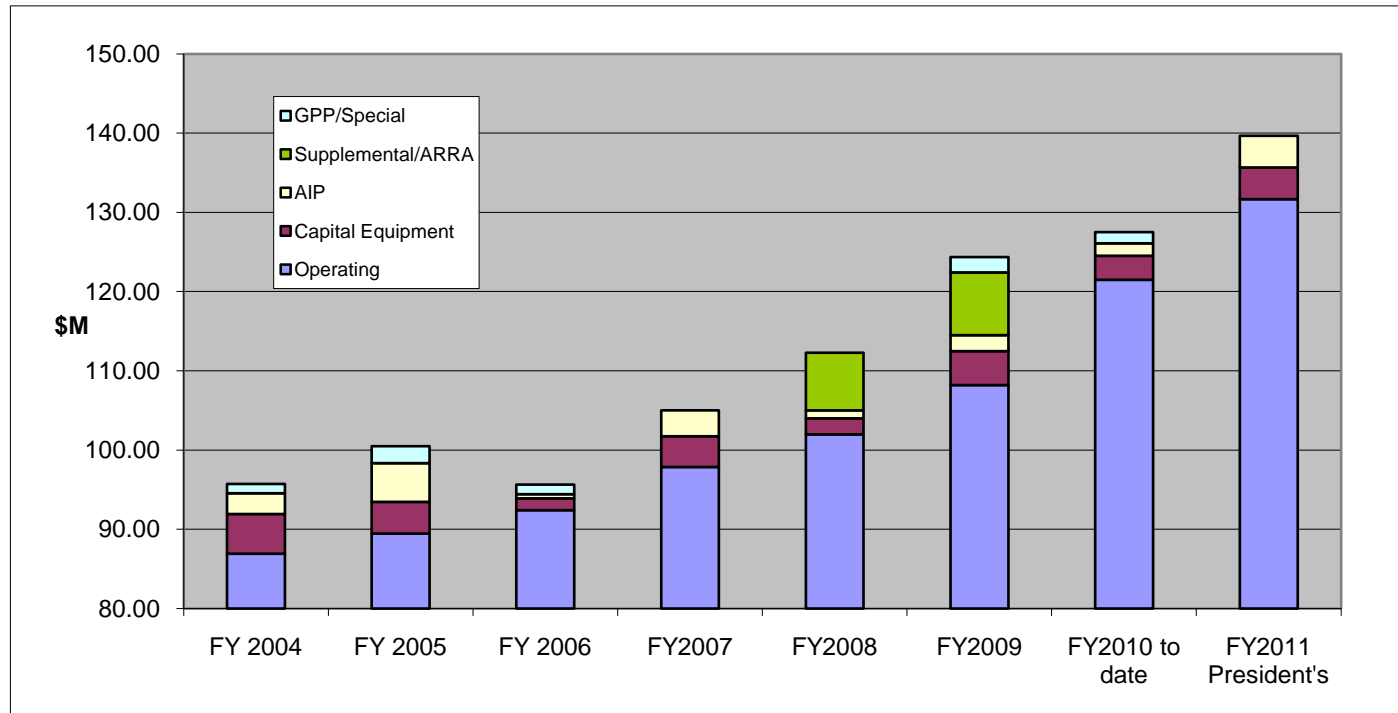


# Electrical Incidents cont'd

- Both events were reported to DOE ORPS database.
- Shock was due to floating ground created from inadequate grounding – traced to how unit was constructed by manufacturer 15-20 years ago – had not been DEEI inspected prior to event - have now inspected similar units
- Short to ground was due to break in wire insulation – heat tape was not examined for flaws before being wrapped around component and energized – user's finger within 1 foot of spark so near miss
- User was not qualified to repair heat tape wire and then return it to service – should have notified beam line staff and used different heat tape “repaired” wire would not have passed DEEI inspection



# Budget update



Fiscal restraint sets in:

**House Energy and Water Committee Markup:**

Office of Science: FY 2010 appropriation: \$4,904 million FY 2011

Administration request: \$5,121 million

Subcommittee recommendation: \$4,900 million, a decline of \$4 million or 0.1 percent below this year.

**Senate Markup:** Office of Science fared better than in House:

\$108M above FY2010, but \$109M below Request.

# LN2 Sector Hutch Top Spill

- Fill valve opened and failed to close for 10 hours.
- Minor cracks to hutch top.

## Corrective Actions:

- AES will review/improve LN2 alarm system. Two tier alarms to reduce nuisance alarms.
- The XSD Main Control Room crew has been trained to monitor LN2 parameters on off shifts.



# LN2 Supply Dewar Low Level

## Consequence: Seven Sectors Effected

- **Causes:**
  - FMS failed to schedule Airgas for daily fill.
  - Low level alarm signal failed.
- **Corrective actions:**
  - AES, FMS, and Airgas will reconfirm daily fill.
  - AES will investigate replacement of existing 3000 gal dewar with a larger dewar.
  - AES will automate cross connect valves to open automatically.



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