BaBar Lessons Learned
October 2005 down
WHAT WE DID RIGHT

• No imminent-danger situations observed by Safety Team

• Organized a strategy and updated and improved a safety plan

• Shift meetings continued to provide excellent means of work authorization
LESSONS LEARNED 2005

AREAS FOR IMPROVEMENT

PERSONNEL PROTECTION

• Worker allowed behind shield-wall while curtain wall was in motion
• Backward-end plug lifting pads required emergency load testing and certification before use
• Safety team witnessed two tools dropped near workers from heights >10 feet
• Mysterious nitrogen flow discovered between Support Tube and DCh inner cylinder
### Areas for Improvement

**Radiation Protection**

- Flange between frangible link and Q5 was machined *in situ* without a RWP
- One vacuum chamber removed from Hall without being surveyed
- Confusion between garbage and useful components in RMMA lands valuable components in dumpster
LESSONS LEARNED 2005

AREAS FOR IMPROVEMENT

EQUIPMENT PROTECTION

- VESDA alarm from by concrete work in N PEP tunnel cut power to experiment
- Oxyacetylene cutting performed on front end while vacuum was open on the back end
- LST cable plant reorganization: *All’s well that ends well?*
LESSONS LEARNED 2005

WHAT SHOULD WE DO DIFFERENTLY IN 2006?

• Place signs and caution tape at all points of entry to prevent access during events requiring Hall-clearing
• Plan ahead: get approval for use of lifting fixtures needed for 2006 down
• Add reminders to IR-2 Safety Orientation:
  – Tie up loose items where they could fall on those below
  – Do not machine or abrade beam components without a RWP
LESSONS LEARNED 2005

WHAT SHOULD WE DO DIFFERENTLY IN 2006?

• Supplement DIRC-tunnel confined-space signs and PRCS training, and monitor tunnel air carefully during every tunnel access
• Expand and divide RMMA to allow separate spaces for garbage and good stuff
• IN FPSC: Discuss usefulness of VESDA alarms from PEP tunnels cutting BaBar’s power
• Have MFD-Vacuum place VACUUM OPEN – NO WELDING signs at the PPS gates when appropriate