

# User Facilities

Good progress has been made to de-couple the Tier 1 center from RCF.

- Independent HPSS server
- Independent AFS cell

Staffing situation is much improved with the recent addition of 2 FTE to the Tier 1 facility.

University and lab support for a grid architecture is good. Despite lack of funds, a significant number of sites have been assembled as a grid testbed.

Two tier 2 prototypes have been established at Indiana and Boston Univ using iVDGL funds.

# User Facilities (2)

Plans for Tier 1 have changed from a tertiary+disk cache model to a 100% disk resident model.

- Increases physics production potential
- Potentially introduces an architecture scaling problem as luminosity increases

The increased integrated cost to completion for this change has been hidden by delaying completion by 1 year.

- Operation funds converted to construction funds.

# User Facilities (3)

Long term strategy for Tier 1 looks good.

- Funding is back loaded, a generally good strategy
- Staffing level of 25 is reasonable (much lower than CMS).

Nevertheless, we encourage Atlas to consider a larger usage of lower cost components, particularly disks.

Plans for DC2 to exercise grid functionality are commendable.

# User Facilities (4)

Data Challenge as currently planned for 2003 and 2004 is too small. US portion will be smaller by a factor of 2 from the 5% (2003) and 10% (2004) specified in the international plan.

- Consequence of strong back loading

Recommend adding a later test at a higher capacity (20% complexity).

- Requires increased hardware expenditures in 04 to achieve this level, or execution in early 05

# User Facilities (5)

Networking requirements for the Tier 1 center are OC-192 (10 Gb/s). Funding for this capacity has not been identified.

Atlas must continue to bring this problem to the attention of BNL management and the funding agencies.

Atlas has also identified a need for expertise and tools for the exploitation of these next generation networks must be available for Atlas, particularly the tier 1 center.

- Atlas is to be commended for recommending a “SWAT team”

We believe this is a nationwide problem, and Atlas must assist in ensuring that this need be addressed.