# Status of Off-line System

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# Milestones

- Release of PEP v1.0
  - Originally planned for January 1996
  - Was released around April 1996
  - Contains even more functionality than was originally planned:
    - WAN access to central database
    - Real time histograming display

- Release of PEP v2.0
  - Originally planned for January 1997
  - Officially still on track; but a release in February 1997 probably more realistic
  - This version is primarily intended to be used for:
    - Code development
    - Code conversion from PISORP to PEP
    - Online monitoring

# Problems and Concerns I

## ○ RHIC Computing Facility (RCF)

- ▷ RCF finally funded; but only for FY97 and the funding profile for FY98-99 is somewhat uncertain.
  *Will we have sufficient CPU and storage capacity from day one?*
- ▷ PHENIX needs to provide 3 FTE's to RCF.
  *How can we identify that additional manpower?*

## ○ Database

- ▷ The central ORACLE database has *not* been used very much by the collaboration.
- ▷ Several small independent databases has started to "mushroom".
- ▷ The off-line group has probably not been aggressive enough in developing templates and documentation.
- ▷ However: The addition of Mark Pollack to be responsible for the central PHENIX database should correct this problem. Mark will be stationed at RHIC.

## ○ Office Space

- ▷ Off-line plans to place two people: Dave Morrison and Mark Pollack at BNL from February-March 1997.
- ▷ Two more people might follow in late spring or early summer
- ▷ *Where is the office space for these people?*

# Problems and Concerns II

## ◦ Transition to PEP

- The conversion of software from PISORP to PEP has been slow. Main reason, that users (unjustly!) feel that PEP v1 might be too complicated.
- PEP v2 should correct that problem
- However: we desperately need a person to supervise this effort and too be responsible for the integration of all our "physics" software.

## ◦ Comprehensive plan for "Physics" software

- Up to now nearly all "physics" software efforts have been concentrated on sub-detector specific problems. We need *soon* to develop a comprehensive plans for:
  - Data Structures throughout the complete off-line system
  - Software modules needed for doing tasks like: simulation, calibration, event reconstruction, particle identification, background subtractions etc.
  - A *realistic* implementation.

# Financial Situation

- SOW 97
  - A FY97 request for \$205k Has been submitted from UT to BNL.
- FY98-99
  - Unless other resources are identified (BNL, DOE and/or pre-ops) Offline will need to ask for \$162k more than identified in WBS. (Going from \$742k to \$904k.)
  - Offline will rely more heavily on testing data storage at RHIC than at own equipment.
  - The original WBS was based on the assumption, that by FY97 "captive labor" in the form of graduate students and post-docs would show up and help with the core off-line tasks. This is clearly unrealistic. Off-line need dedicated, highly skilled people to perform the core tasks.
  - Within the current budget for FY97-98 we have managed to squeeze Database/Data storage expert in.
  - We do not have the funds to fill another desperately needed position: a person responsible for the integration and user interaction for all "physics" software.

Cost profile for the Off-line Computing System.
Preliminary numbers. Cost estimates not finished.
(All amounts in \$k)

| FY | 94 | 95 | 96 | 97 | 98 | 99 | Total |
|---|---|---|---|---|---|---|---|
| WBS v7 | 0 | 209 | 193 | 241 | 58 | 41 | 742 |
| Actual Allocation | 25 | 160 | 159 | | | | 344 |
| Actual Spending | 5 | 164 | 135 | | | | 304 |
| WBS v8 | 5 | 164 | 135 | 230 | 220 | 150 | 904 |