



# Action Items from Recent Muon Arms and Detector Council Meeting

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LANL Muon Tracking Meeting

# Action Items

- **Nosecones**
- **Simulation Work**
- **Shielding Studies**
- **AMUADC**
- **Budgets**
- **Engineering Run**
- **Magnet Mapping**
- **Ancillary System (ONCS)**
- **Budgets and Schedules**

# Nosecones

- **Melynda presented the simulation results**
- **Proposed and accepted that we go to symmetric nosecones. Detector Council accepted the proposal**
- **Action: Baseline is now symmetric nosecones**

## Simulation Work

- **Proposal that all 10K data be "analyzed" for physics plots to be presented at next collaboration meeting (October 22-24, 1997)**
- **Action: Several people agreed to work on that**

# Shielding Studies

- **Reinhard Stotzer is doing studies of shielding near Station 1**
- **Action:**
  - Interim report should be presented at time of the next collaboration meeting.
  - Stotzer should convene a group to talk about the physics issues once he is beginning to get up to speed on the software. (Suggested within a couple of weeks.)

# AMUADC

- **Review of the AMUADC was on Thursday, Sept. 18.**
- **Actions:**
  - $\mu$ Tr Team should meet within two weeks to discuss the details acceptance/rejection of this chip. (Next weeks LANL  $\mu$ Tr meeting was suggested.)
  - Evaluate whether the chip can generate 4 samples during 40  $\mu$ sec for 10/11/12-bits - ORNL; due in 2 weeks
  - Get the cost estimates updated - many due this week
  - Get the PO started - BNL this week

# Budgets

- **Put planned deferrals into baseline**
- **Actions:**
  - Develop cost analysis for  $\mu$ Tr to have 2 FEM's into 1 DCM.
  - Get SOW's for FY'98 completed reflecting the deferrals

# Engineering Run

- **Much Discussion of the engineering run was done**
- **Proposed that we take that plan**
- **Action: Each subsystem needs to update its plans to include (due ASAP)**
  - Analysis of benefit to system and PHENIX vs the added risk
  - Show when an electronics chain test can be completed
  - Analyze the impact on completing the project
  - Plan for staffing, commissioning, and hardware completion
  - Plans for test and calibration
  - Plans for analysis and debug software



# Magnet Mapping

- **Very unlikely to be able to map to the very back of the MMN or MMS**
- **Proposal was to not map behind the power coils (about 6" from backplate)**
- **Action: Need simulation information about the impact on resolutions due to no map.**
  - Note: There are a lot of materials near the lower part of the chambers which may not be simulated. Those should also likely be included.

# Ancillary System (ONCS)

- **A draft of the ancillary systems requirements from each subsystem has been put together by Chris Witzig**
- **Action:**
  - Update that document by October 25
    - μTr Mechanics - Lee and Sondheim
    - μTr FEE - Carey and Wong-Swanson

# Budgets and Schedules

- **The entire Muon Tracking Schedule and Budget should be revisited**
- **Action:**
  - Develop a complete schedule and budget for Muon Tracking FEE by the CDR review (October 9-10). - Carey and Kinnison
  - Develop a complete updated schedule and budget for Muon Tracking Mechanics by October 20. - Lee and Kinnison