



Muon Arms MiniTAC Highlights

Muon Arms VTC

April 29, 1998

W. Wayne Kinnison

Muon Arms MiniTAC Review

- **Date: May 7 – 8, 1998**
- **Location: Brookhaven National Laboratory**

Charge for MiniTAC

- **The review committee should determine the current status of the Muon Arms effort and the prospects for timely completion of its various parts. In particular:**
 - MuID panel installation in the Experimental Hall by September, 1998.
 - Cost estimate and schedule for MuTr FEE.
 - Fabrication and installation schedule for MuTr chambers.
 - Performance of MuTr without anode readout or without a third gap in tracking station 3.

Scope of MiniTAC

- **MuTr and MuID, mechanics, FEE, software**
- **Cost and schedule for fabrication, installation and commissioning**
- **Descoping and/or deferral plans, including performance studies of descoped/deferred configurations.**

Agenda

Thursday, May 7, 1998

Plenary Session

- 900 - 930 Introduction and Role of Muons in PHENIX Physics Program - B. Zajc/S. Aronson
930 - 1000 The PHENIX Muon Arms: Scope and Overview - W. Kinnison
1000 - 1045 Performance Studies of Muon Arms - M. Brooks
1100 - 1115 Break and Reconvene in Parallel Sessions

Parallel Session A - Muon Tracking

- 1115 - 1245 Muon Tracking Mechanics - D. Lee
1245 - 1400 Lunch
1400 - 1600 Muon Tracking FEE - T. Carey
1600 - 1615 Break and Reconvene in Plenary Session

Parallel Session B - Muon Identifier

- 1115 - 1245 Muon Identifier Mechanics - K. Read
1245 - 1400 Lunch
1400 - 1600 Muon Identifier FEE - V. Cianciolo
1600 - 1615 Break and Reconvene in Plenary Session

Plenary Session

- 1615 - 1645 Summary Cost and Schedule Issues - W. Kinnison

Friday May 8, 1998

- 900 - 1200 Executive writing session - Committee
1200 - 1245 Closeout - Committee

Descoped and Deferred

- **Items removed from the scope of the project**
 - Five gaps of Muon Identifier Panels
 - Read out only 2 gaps of Station 3 tracking chambers
- **Delayed delivery (not in first year of running)**
 - North Muon Arm
 - Anode readout for Muon Tracking

Cost Summary - AEE

AEE Funding (no contingency)

Fiscal Year	1996	1997	1998	1999	2000	2001	Total
MuTr Mech		1,097.2	691.8	412.2	1,224.6		3,425.8
MuTr FEE		623.0	744.0	560.0	1,114.1	978.5	4,019.6
MuID Mech		355.5	2,376.3	149.5			2,881.3
MuID FEE		85.8	471.9	326.6	170.7		1,055.0
ARCNet				4.9		5.1	10.0
Timing & Control				81.5		87.2	168.7
DCM's			124.0			372.0	496.0
Total	0.0	2,161.5	4,408.0	1,534.7	2,509.4	1,442.8	12,056.4
Cum Budget Req.	0.0	2,161.5	6,569.5	8,104.2	10,613.6	12,056.4	
Allocations	750.0	2,625.0	2,800.0	1,400.0	3,200.0	625.0	
Cum Allocations	750.0	3,375.0	6,175.0	7,575.0	10,775.0	11,400.0	
Budget - Expense		1,213.5	(394.5)	(529.2)	161.4	(656.4)	

Cost Summary - RIKEN

RIKEN Funding

Fiscal Year	1998	1999	2000	2001	Total
MuTr Mech	918.1	845.3	99.8		1,863.2
MuTr FEE	44.7	1,014.2	0.0	637.9	1,696.8
MuID Mech	400.0				400.0
MuID FEE		75.0	73.0		148.0
Muon Totals	1,362.8	1,934.5	172.8	637.9	4,108.0
LVL-1		112.0			112.0
ONCS		95.0	95.0		190.0
All Other Items					2,847.8
Total RIKEN	1,362.8	2,141.5	267.8	637.9	7,257.8
RIKEN Budget Total					6,218.1
Budget - Request					(1,039.7)

Schedule Summary

- **Engineering Run (October 1998 – July 1999)**
 - Mechanics of Muon ID plus advanced prototypes of Muon ID readout
- **First year of running (October 1999 - May 2000)**
 - Muon ID will be mechanically complete
 - Muon ID readout before end of the run (may make beginning of run)
 - South Muon Arm Tracking ready by late Jan. or early Feb. 2000
(cathodes only)
- **Second year of running (October 2000 - May 2001)**
 - North Muon Arm Tracking ready