

AIP and CE Plans for RHIC

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AIP = Accelerator Improvement Project

CE = Capital Equipment

GPP = General Plant Projects

Goals for AIP and CE

1. Existing infrastructure improvements
[example: AGS electrical infrastructure]
2. Upgrades for more luminosity
[example: RHIC Stochastic cooling]
3. Upgrades for more polarization
[example: AGS snakes]
4. Upgrades for more time in store
[example: RHIC service buildings]
5. Upgrades for power savings
[example: cryo upgrades]

Categories

- Building and infrastructure
- Cryogenic system
- Control system
- Electrical system
- Instrumentation
- RF system
- Vacuum system
- Other

Annual review at beginning of fiscal year

Currently \$17M backlog (widely varying urgency)

FY2006 AIP and CE

- Capital projects total: \$611k
 - AGS/RHIC low level rf upgrade (Phase II of III) \$200k
 - Accelerator general capital equipment \$191k
 - Booster power supply interface upgrade \$120k
 - LEBT and MEBT modification for polarized protons \$100k
- AIP total: \$1.5M
 - AGS MMPS transformer (Phase II of III) \$1.9M
 - RHIC stochastic cooling (Phase I of II) \$0.5M

Comments:

1. Faced large uncertainties at beginning of FY06. All projects delayed, AGS MMPS expected completion date shifted by one year.
2. Reprogrammed \$0.5m from CE to AIP to start stochastic cooling.

