

US LHC Accelerator Research Program
Task Sheet FY05

Task Name: Phase I Collimator Studies

Date: 9 June 2004

Responsible Person(s) (overall lead, lead at other labs): A. Drees

Budget (specified for each lab): \$80K (BNL)

Statement of work for current FY (include description of year's "deliverable" and, if appropriate one or a few intermediate milestones):

Work for this year will include:

- Travel/support for CERN post-doc to BNL to work with BNL personnel on RHIC collimator system – software and setup
- Software support for ROOT and collimation simulation connection
- Travel of BNL personnel to CERN for SPS collimation tests
- Travel/support for CERN post-doc to BNL to analyze RHIC loss patterns and benchmark simulation software
- Install and test motion control concepts, algorithms, and software with existing RHIC collimators

FY05 0.4 FTE (BNL) (A.Drees, N.Malitzky)

Statement of expected follow-on work in subsequent years (include "ultimate" goal and time scale for this sub-program, as well as plans for specific work and rough budget need for next 2 years):

During FY06 a new post-doc will be hired at BNL to assist with continuing work on Phase I collimator systems and benchmarking against RHIC system and computer simulations.

FY06 1.0 FTE (BNL) (A. Drees, N. Malitzky, post-doc)