



Status Report for June 2006

Author: Sven Reiche

Monthly budget, schedule and technical status report for the Memorandum of Understanding between SLAC and UCLA titled:

Technical Addendum D to the Memorandum of Understanding between the Stanford Linear Accelerator Center and the University of California at Los Angeles

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Budget and Schedule Status

WBS Task Deliverable Reporting

WBS Task Deliverable Reporting

The WBS task deliverables and budget are defined by the MOU as shown in table 1.

WBS Number	Task Deliverables	Fund Type	Budget (K\$)	EDIA (K\$)	M & S (K\$)
2.1.1.8	FEL Physics Analysis	R & D	173.7	155.5	18.2

Table 1 WBS Deliverable Definition

Progress on each WBS task for the reporting month **June, 2006** is shown in table 2.

WBS Number	Task Deliverables	% Task Complete	% Budget Used	Scheduled Completion Date	Expected Completion Date
2.1.1.8	FEL Physics Analysis	50	35	Sep 2006	Sep 2006

Table 2 WBS Deliverable Status

The above February numbers are calculated with respect to last year's budget. So far UCLA has not received any money according to the new MOU.

Technical Status and Planning for 2.1.1.8

This Month

This month the work has continued on the modeling of the coherence properties of the radiation field for the generic case and the more realistic case of the start-end simulation. In addition SPUR, the code to calculate spontaneous undulator radiation, is in the progress to be updated to include arbitrary electron trajectories as well as electron energy spread and emittances. Also some pre-planning work has been done to implement higher harmonics in Genesis.

Next Month

- Write report on coherence properties of LCLS (aiming towards FEL conference)
- Higher harmonics in Genesis
- Support for beam distributions in SPUR