



Appendix F – Technical Addendum to the LCLS MOU

TECHNICAL ADDENDUM <X>

to the

MEMORANDUM OF UNDERSTANDING

between the

STANFORD LINEAR ACCELERATOR CENTER

and the

LAWRENCE LIVERMORE NATIONAL LABORATORY

for the period

<insert period>

<insert date>

I. Introduction

This Technical Addendum C constitutes the Statement of Work to be performed by the Lawrence Livermore National Laboratory (LLNL) on behalf of the Linac Coherent Light Source (LCLS) Project. The Stanford Linear Accelerator Center (SLAC) is a signatory as part of its role in LCLS management oversight. This Statement of Work may be amended as required by the written agreement of both parties.

The work to be performed detailed in this document falls within the scope of the Memorandum of Understanding (MOU) between SLAC and LLNL dated August 10, 2002. The terms of agreement under which the work will be carried out are found within the MOU and continue to be in force.

The Appendix to this document contains (i) a detailed description of work, and (ii) total estimated cost for the current period organized by Work Breakdown Structure (WBS) for each area in which LLNL is involved. When manpower resources are required, every effort will be made to identify specific individuals assigned to the LCLS project.



Budgeted funds for the current period covered in this Technical Addendum include \$XXX.XK (R&D Effort) and \$XXX.XK (PED Effort) for a total of \$XXX.XK.

II. Approval

The undersigned concur with this Technical Addendum C to the SLAC / LLNL Memorandum of Understanding dated August 10, 2002:

John Galayda / Date
SLAC LCLS Project Director

Richard Bionta / Date
LLNL LCLS Project Head

W. Goldstein/ Date
PAT Associate Director, LLNL

Jonathan Dorfan / Date
Director, SLAC

M. Anastasio / Date
Director, LLNL



III. Appendix

This Appendix consists of the detailed Statement of Work (SOW) and associate budget and milestones for the work agreed to between the Stanford Linear Accelerator Center and the Lawrence Livermore National Laboratory with regard to the Linac Coherent Light Source (LCLS) Project.

LCLS WBS, Estimated Cost and Deliverable

WBS	Task – Deliverable	Fund Type	Budget this Period (AYK\$)*	EDIA*	M&S**
TOTAL					

* EDIA (Engineering, Design, Inspection & Administration).
** M&S (Materials & Services). Includes project-related travel.

PED Effort to be Performed this Period

R&D Effort to be Performed this Period

List of Scientific, Engineering, Technical and Administrative Personnel

As a planning tool, an estimate of LLNL personnel necessary to accomplish the work scope for the performance period, are shown below.

Staff Type	FTEs	Cost (K\$)
Total		

The following LLNL personnel are identified as participating in the LCLS Program during this period of performance:



Name	Areas of Responsibility

* indicates that individuals will be assigned by the LCLS LLNL Project Director on an as needed basis.

Reporting and Procurement Authorization

The person responsible for the LCLS effort at LLNL is the LCLS X-Ray Transport, Optics and Diagnostics System Manager and LCLS LLNL Project Head, Dr. Richard Bionta. The LCLS group at LLNL agrees to furnish complete documentation for all deliverables supplied to the LCLS project as well as quality control, design and performance checks carried out in the performance of this work

The LCLS Group at LLNL will report monthly on or before the tenth working day of the following calendar month to the LCLS Project Office. All LCLS-related materials and services, travel and labor charges will be reported according to Work Breakdown Structure (WBS) category at the lowest WBS level. Major procurements (currently >\$100k) must, in addition, have the written authorization of the LCLS Project Director. During this period of performance the LCLS Group at LLNL agrees to supply the above deliverables at a cost not to exceed the estimated base cost given in the LCLS WBS.

A high-level monthly report will also be generated by the LCLS LLNL Project Director and provided to the LCLS Chief Engineer by the tenth working day of the subsequent month. This report will describe major highlights on technical progress, an overall assessment of the project's status and should emphasize any problems or issues that require attention.

Schedule and Milestones



The LCLS group at LLNL will make every effort to carry out their institutional responsibilities consistent with the overall LCLS schedule. In this Statement of Work the project milestones for this period of performance relevant to the LCLS group at LLNL are shown in the table below:

Milestone ID	Milestone	Milestone Date