

SLAC MEMORANDUM

RSC-07-03

August 28, 2007
September 19, 2007 (revised)

TO: Distribution

FROM: Johannes Bauer *JB*

SUBJECT: Radiation Safety Committee Meeting — May 30, 2007
LCLS Front End Enclosure: Radiation Shielding by Wall 1 and Wall 2

Attendees:

Members: W. Wisniewski, S. Rokni, T. Fieguth, M. Kelsey, M. Saleski,
J. Hastings, J. Schmerge, D. Schultz^{??}, B. Hettel

Others: A. Prinz, T. Fornek, P. Emma, H. Tompkins, M. Santana,
J. Welch, S. Mao, J. Liu, T. Sanami, J. Bauer

Summary

The main subjects of the meeting were the designs of the bulk shielding of Walls 1 and 2, which define the upstream and downstream boundaries of the Front End Enclosure (FEE). Located 16 feet underground, Wall 1 separates the beam dump area at the end of the Undulator Hall (UH) from the FEE. Further downstream, Wall 2 separates the FEE from the Near Experimental Hall (NEH). The committee was asked to review and approve the design and implementation of the bulk shielding of Wall 1. The design for Wall 2 was only shown for information, not for approval. Also presented for review, not approval, was the estimation of Bremsstrahlung power reaching the FEE.

After an introduction by Sayed Rokni, Jim Welch laid out the construction plans for Walls 1 and 2. Paul Emma described the sources of beam loss. The results of the dose rate calculations were then presented by Mario Santana together with the estimates of Bremsstrahlung power reaching the FEE.

The committee approved the design and implementation of the bulk shielding for Wall 1. The committee requested LCLS to implement adequate quality assurance procedures for the construction of the walls, especially to ensure the gaps in the shielding are properly staggered. They suggested configuration control for the beam finding wire system to ensure that only approved wires would be placed into the beam. The committee also asked LCLS to provide over time more accurate estimates of the usage of and power loss in inserted devices. Radiation Physics was asked to submit an explanation for a strong drop in dose rate seen at Wall 1.

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