

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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Table of Contents Rsc 26past Questionpapers Memorandum

1. Understanding the eBook Rsc 26past Questionpapers Memorandum
 - The Rise of Digital Reading Rsc 26past Questionpapers Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Rsc 26past Questionpapers Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Rsc 26past Questionpapers Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rsc 26past Questionpapers Memorandum
 - Personalized Recommendations
 - Rsc 26past Questionpapers Memorandum User Reviews and Ratings
 - Rsc 26past Questionpapers Memorandum and Bestseller Lists
5. Accessing Rsc 26past Questionpapers Memorandum Free and Paid eBooks
 - Rsc 26past Questionpapers Memorandum Public Domain eBooks
 - Rsc 26past Questionpapers Memorandum eBook Subscription Services
 - Rsc 26past Questionpapers Memorandum Budget-Friendly Options
6. Navigating Rsc 26past Questionpapers Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Rsc 26past Questionpapers Memorandum Compatibility with Devices
 - Rsc 26past Questionpapers Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rsc 26past Questionpapers Memorandum
 - Highlighting and Note-Taking Rsc 26past Questionpapers Memorandum
 - Interactive Elements Rsc 26past Questionpapers Memorandum

8. Staying Engaged with Rsc 26past Questionpapers Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rsc 26past Questionpapers Memorandum
9. Balancing eBooks and Physical Books Rsc 26past Questionpapers Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rsc 26past Questionpapers Memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Rsc 26past Questionpapers Memorandum
 - Setting Reading Goals Rsc 26past Questionpapers Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rsc 26past Questionpapers Memorandum
 - Fact-Checking eBook Content of Rsc 26past Questionpapers Memorandum
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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