

CONVENTIONAL FACILITIES AND SITING GROUP

STATUS REPORT

V. Kuchler, J. Osborne, A. Enomoto



<u>Overview</u>

- Process Water and HVAC Value Engineering
- Main Linac Alternate Tunnel Configuration Investigation
- Minimum Machine Design Study
- CFS Documents to EDMS
- CFS Collaborations with CLIC, XFEL and Project X
- Preparations for AAP Review in April 2009

Process Water and HVAC VE

- Alternatives Identified During the Formal VE Process have been Evaluated
- Klystron Cluster Alternative has been Fully Evaluated
- CLIC Information is Being Added to the Comparative Spreadsheet
- XFEL Information is Forthcoming
- Project X Information is Still Needed
- Distributed RF Alternative will be Evaluated as Information Becomes Available in Conjunction with KEK
- HVAC Solutions and Egress Aspects will be Included in the Combined Safety Document Planned with CLIC and XFEL

ML Alternative Tunnel Configuration

- Seven Tunnel Configuration Alternatives (and Variations) have been Identified
- Schematic Drawings are being Developed
- Consultant Support for Cost Estimating is being Reviewed
- We Hope to have Three Alternative Evaluations Completed for the AAP Review
- Evaluations and Analysis will Include:
 - Tunnel Depth and Constructability Investigation
 - Equipment Layout Schematics
 - Review of Life Safety and Egress Solution
 - Cost Estimates and Comparison



Minimum Machine Study Evaluation

- Initial Organizational Meeting was Held at DESY in December
- Work is Proceeding to Develop the New Beam Lattices and Layouts for CFS Tunnel and Enclosure Design
- Bi-Weekly Meetings have Been Established with DESY and CERN to Organize 3D Drawing Effort
- Meetings are Also Being Held at FNAL to Develop CFS 3D Capability

CFS/ILC Collaboration Efforts

- CLIC/ILC Collaboration (J. Osborne Slide)
- XFEL/ILC Collaboration
 - Second Meeting at DESY in December 2008
 - Communication for Process Water Criteria is Established
 - 3D Drawing Coordination Meetings are in Place
 - Future Meetings will Address Project Management and Contracting (Possibly March 2009)
- Project X/ILC Collaboration
 - Only Initial Contacts Established
 - More Formal Effort is Needed and will be Pursued

AAP Review Preparations

- Decisions for Information Posting Still Need to be Finalized this Week
- Information will Include:
 - Complete Process Water VE Information
 - Work to Date and Plan for Completion of Tunnel Configuration Alternative Study
 - Plan for CFS Evaluation of Minimum Machine Design Review
 - Description of Surface Building Criteria Review
 - Status of Collaboration Activities with CLIC, XFEL and Project X
 - Resource Loaded Schedule for CFS Work Anticipated Through 2010
- CFS Travel Plans are Partially in Place