



ILC 08

CONVENTIONAL FACILITIES AND SITING GROUP

***Introduction to Process Cooling Water
and HVAC Review Parallel Session***

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Process Cooling Value Engineering

- *VE Workshop Conducted at FNAL in Nov 2007*
- *Several Ideas were Discussed for Alternatives to RDR Process Cooling Water Design*
- *Adjustments to Process Cooling Design has an Effect on HVAC Design as well*
- *Alternatives were Prioritized and Work Began*
- *Then December Budget Difficulties Greatly Reduced the Resources Needed to Continue*
- *Work Did Continue (at a Slower Pace)*
- *Eventually all Identified Alternatives were Investigated and Evaluated*



Process Cooling Value Engineering cont.

- *Klystron Cluster Alternative was Investigated after the Dubna ILC Meeting*
- *The CFS Group did Evaluate this Alternative and Provided Resulting Cost Analysis*
- *Klystron Cluster Alternative Requires R&D and Demonstration*
- *A Back-up Design Solution Needs to be Selected in the Unlikely Event that the Klystron Cluster Alternative does not Prove Viable*
- *That is the Object of this Parallel Session*