

WHAT WE LEARNED OVER THE LAST YEAR IN THE FNAL NLC R&D PROJECT

➤ THE NLC PROJECT IS NOT AS FAR ALONG AS ORIGINALLY THOUGHT.

- **Structure Damage After 500 Hours of Operation.**
- **DLDS Cold Test at KEK Was Not Fully Successful.**
- **Klystron Problems at NLCTA, Only One 75 MW Prototype.**
- **Alignment Precision Problems.**
- **Cost/Politics (?).**

➤ CONCLUDE PROJECT IS STILL IN R&D STAGE.

- **MAC (Ozaki Chair) Second Meeting October 4-6 at SLAC. Charge Must Emphasize Getting Through Necessary R&D.**
- **ETF Is Now Absolute Necessity When Design Issues Settled.**

➤ WHAT SERVES FNAL IN THIS CLIMATE OF PROJECT UNCERTAINTY?

- **Rf-Structures: Factory Becomes Atelier to Support Damage Studies, Becomes Test Bed For New Design (MDS?).**
- **Accelerator Physics: Beam-Based Alignment, MDS.**
- **Rf-Engineering: MDS, DLDS (ETF), X-Band Power (ETF).**
- **Permanent Magnets: Determine What Stability Is Possible.**
- **Conventional Facilities: Value Engineer Deep Tunnel.**
- **Collaboration: With SLAC Has Been Fruitful, Did Not Conclude Broader Contacts With KEK, CERN, Etc.**

CONVERGING ON A FY01 BUDGET

Stanfield Guidance: TD: \$404k BD: \$1030k

NLC Total: \$1434k w/o G&A.

Holmes Guidance: NLC Total: \$3300k w/o G&A.

Structures Work (Finley Plan I): SWF \$950k (10FTE's)
M&S \$600k
Equip. \$400k
Total TD: \$1950k
SWF \$300k (BD FTE's rf)
SWF \$100k (BD FTE Magnets)
Total BD: \$400k
NLC Total: \$2350k

DLDS Work (Czarapata): SWF \$300k (3 FTE's rf/Mech.)
M&S \$150k
Total BD: \$450k

Accelerator Physics: SWF \$300k (3 FTE's)
Total BD: \$300k

Civil: SWF \$320k (2.5 FTE's)
M&S \$435k (contracts)
Total BD: \$755k

Total TD Requests: \$1950k

Total BD Requests: \$1905k

NLC Total Requests: \$3855k