



# **NOvA Status**

**NOvA Collaboration Meeting**  
**Fermilab**  
**17 November 2006**

**Gary Feldman**



# P5 Report

- **P5 has now issued its final report**
  - **“Without NO $\nu$ A, the world loses the chance to look for evidence of CP violation in the leptonic sector for a long period of time. To be sure, there is a risk that NO $\nu$ A Phase 1 will provide no new information, depending on unknown mixing parameters. Still, we find the science case is compelling: there is no other planned program worldwide that will have the potential to resolve the mass hierarchy and start to probe for CP violation in the leptonic sector.”**
  - **Recommendation: “Proceed with the 20 kt-scale NO $\nu$ A experiment. Due to long operations required, construction should not be stretched out significantly with respect to the roadmap described in Chapter VI.”**



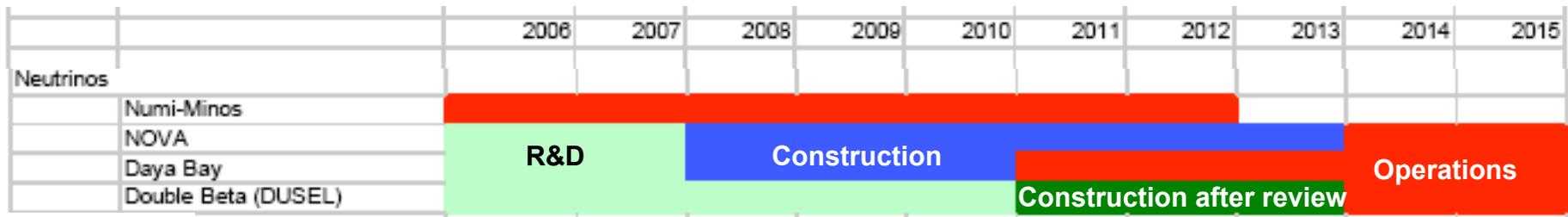
# P5 Report

- **Chapter VI does not contain any schedule. However, it states**
  - **“Note, however, that the ILC R&D ramp up profile, chosen to match the 60% of new investment goal expressed in our planning guidelines, and the NOvA construction schedule must both be slowed with respect to the most aggressive proposals, if the costs are to be matched to the assumed annual budgets.”**



# P5 Report

- However, the executive summary contains a schedule:



- Our present DOE profile has the final \$25M in FY 2012



# Italian Collaboration

- **INFN is facing a €40M cut in the new government's proposed budget.**
- **Such a cut would effectively prevent any new activities.**
- **Meetings with INFN took place yesterday and Stefano Zucchelli will tell us the bad news.**



# INFN Web Site

- **Posted on the INFN web site until recently:**

**STATEMENT ISSUED BY THE **INFN** BOARD OF DIRECTORS  
ON OCTOBER 20 TH 2006**

The **INFN** Board of Directors in its meeting held in Rome on October 20 th 2006 , after the scrutiny of the 2007 Financial Law proposed by the Government, is issuing the following statements:

It deprecates the use of a financial law to reorganize the management structure of the Research Institutions, and in particular of **INFN**. The specific article 42 of the proposed law redefines the top management of the Institutions without any guarantee about the correct representation of their scientific community inside the management itself, which has been a successful and consolidated tradition in 50 years of **INFN** activity.

The proposed law offers a totally inadequate solution to the career developments of young scientists of very high qualification, who have been damaged by several years of reiterated hiring ban. The permanent position hiring and the financial autonomy foreseen are voided by the constraints on the turnover that heavily penalize **INFN**, other Research Institutions and Universities.

The proposed financial resources are vastly insufficient for a real boost of fundamental research that is a structural element for a steady economic growth.

Whereas we are completely in favour of an in-depth scrutiny and evaluation of the results we strongly underline the importance to safeguard the **INFN** autonomy concerning the scientific and organizational planning.



# SNuMI

- **A SNuMI Phase I review has been taking place this week. Phase I uses the Recycler and aims at 700 kW of beam power.**
- **We are, of course, counting on Phase II, which will also use the Accumulator, and could achieve 1.2 to 1.3 MW of beam power.**
- **Nancy Grossman will fill us in this morning.**



# DOE Reviews

- **Director's CD-2/3a Review: Jan 30-Feb 1, 2007**
- **DOE's CD-2/3a Review: March 6-8, 2007**
- **The DOE plan to construct the Far Detector building under a competitively bid cooperative agreement has been changed. The DOE has let the University of Minnesota know that it would welcome an unsolicited proposal to construct the building. The proposal should be submitted very soon, and we hope for DOE acceptance of the proposal around March, 2007.**



# Issues for this Meeting

- **John Cooper will give an overview this morning and there will be many detailed presentations**
  - **Overburden.** The roof will be made of barite-loaded concrete over precast concrete, resulting in a saving over the earlier design, which used steel struts. Mark Messier will present the latest simulations this afternoon.
  - **Structural issues.** There is still concern over the robustness of the structure. Vic Guarino will bring us up to date this afternoon plus a number of related talks.
  - **Light issues.** We are converging on the final parameters. Talks on PVC extrusions, scintillator, and fibers tomorrow.



# Issues for this Meeting

- **Near Detector: We need to converge on its size, location, and angle. Talks by Peter Lucas, Niki Saoulidou, and Brian Rebel on Sunday.**
- **Near Detector electronics. How much timing resolution do we need and how much can we get? Talks by Niki Saoulidou and John Oliver tomorrow.**



# Offline and Simulations

- **Good progress toward having a reconstruction program for the IPND and in simulations needed for planning. Talks by Peter Shanahan and Caius on Sunday.**
- **Masaki has indications of improved efficiency and background rejection. Talk on Sunday.**
- **Outstanding simulation need is an understanding of how we use the Near Detector.**



# Coffee and Sunday Lunch

- **Five dollars for coffee to John or Crae please.**
- **There will be a sign-up for Sunday lunch.**