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2008 ART review: summary

We have presented the main elements of the ART R&D program. The program will continue to evolve but I do not envisage any revolutionary modifications to the 2012 goals. After the last several years boring is good.

The program elements are consistent with the general goal of US participation in a global ILC construction project. The exact details of the extent of any US participation is (deliberately) to be determined. With a strong presence in SRF technology development and several system areas we remain flexible with regard to any ultimate role.

The natural strengths and technical proclivities of the national labs have been naturally incorporated into the ART program elements with a goal of creating win-win scenarios.

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The ART Program – The Committee Charge

The review should consider the ongoing ILC R&D effort by the Americas Region Team (ART) by generally evaluating

- the quality and structure of the organization and management of the program,
- the scientific and technical merit of the R&D plan,
- the achievements in the past twelve months,
- feasibility of the milestones for FY2009 and FY2010, and
- the match between funding and manpower requirements and the availability of these resources in FY 2009 and FY 2010.

• We have tried to address all of these issues in either the management or technical presentations. The breakout sessions tomorrow will allow for detailed follow up by the committee.

10/20/08
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The ART Program – The explicit Committee Charge


- *Is the program well integrated managerially and technically into the GDE Technical Design Phase (TDP)? Is the R&D program well integrated into the TDP?*
ART program personnel are playing active roles in both GDE management and technical areas. If anything we are slightly over represented. The ART program elements and associated goals were developed in partnership with the GDE TDP program.
- *Has management instituted effective mechanisms to ensure the goals of the TDP are met?*
An R&D program such as ART is inherently more flexible than a construction project. As such, the detailed milestones are developed on a annual basis within the overall rubric of the GDE TDP phase and resources evolve accordingly. In this way we formally monitor progress and react to technical events. Lab management plays a crucial role in this process.

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10/2009 ART Review
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The ART Program – The explicit Committee Charge

- *Has the coordination of the national R&D plan with the individual laboratories been effective?*
The mechanisms to do this are certainly in place and have been described in the management talks. Effective is presumably in the eye of the beholder but a good example of this process is the recent re-planning engendered by the ARRA program which, while we have not dwelt on it's impact, was a significant factor during the past few months. Management is a dynamic process (like flying a starship?)



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The ART Program – The explicit Committee Charge

• *has the program efficiently recovered from the sudden reduction in funding due to the fiscal year 2008 appropriation for DOE High Energy Physics? Are there further steps to be taken?*

The program will not "recover" from the programmatic decision to reduce the annual funding from \$40M to \$35M/yr. We are close to re-establishing our manpower to the lower profile (~500 FTEs). We have not completely recovered yet however and some additional personnel are still necessary. Lab management is working on this but the CR was an impediment and hiring time constants are several months.

• *Does the R&D plan ensure the U.S. will have a leading role in the ILC program?*

Any future role of the US in the ILC is of course a policy decision for the wider community. I think it's fair to say that the ART R&D program is consistent with the US playing a leading role should it so choose to do.

10/20/07
 10/20/07 ART Review
 10/20/07

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The ART Program – The explicit Committee Charge

• *What are the broader impacts of the program?*

The ART program has synergies at several levels. The most obvious is with Project X at Fermilab and we have described this. At a less specific level we consciously strive to build upon the national lab interests and strengths (leverage). Possibly the most obvious example is JLAB and SRF development but it is true of ALL of the labs and MOST of the program elements. At the most generic level ART provides support for the linear collider school, LCWS meetings, and community communications.

10/20/07
 10/20/07 ART Review
 10/20/07