

Summary of APEX Steering Committee Conference Call on October 10, 2001

The APEX Steering Committee had a conference call on October 10, 2001 to discuss plans for FY02. Each task leader summarized the proposed plan in 10 minutes. The proposed plans are posted on the APEX website. Discussion following each plan presentation resulted in several recommendations for refining the work plan and several action items were agreed on. Given below is a list of major comments, recommendations and action items.

- ✍ This is the start of planning. Task leaders will refine task plans based on comments made during the discussion. We need to finalize the APEX FY02 plan before the November meeting.
- ✍ Task leaders will provide level of resources and breakdown by subtasks and individual performers. We are aiming at a format similar to the detailed document produced two years ago. Total APEX funding in FY02 is about 5% lower than in FY01.
- ✍ By October 18, task leaders will provide:
 - a) Refined plans to the SC.
 - b) Proposed resources and performers to Mohamed Abdou with copy to M. Sawan.
- ✍ The material and safety communities will designate contact persons.
- ✍ Documentation of work should be done frequently as we move on. The Flibe CLIFF and EVOLVE reports are nearly finished and should be issued ASAP. All APEX papers presented at the ISFNT-6 will be collected and published as a report. In addition, individual reports describing work done during FY01 could be published. Examples are the Sn-CLIFF and SiC/LiPb assessment.
- ✍ The boiling MHD experiment will continue with work to be finished in FY02. The experiment will stick to addressing the issues identified during the EVOLVE assessment. The experimental set-up with 6T might be used for other LW investigations.
- ✍ Tasks III and IV will use the NCF (nano composite ferritic steel) as the reference structural material.
- ✍ Task IV will consider both Flibe and Flinabe that might open the design margin.
- ✍ Proposed subtasks on PMI, and disruption detection and mitigation should be removed from Task IV plan. Clement Wong will discuss with Mike Ulrickson if it is necessary to keep a divertor subtask under Task IV. Modest systems effort can be performed with zero funding.
- ✍ Clement Wong will draft an E-mail to material and physics experts inquiring about the latest understanding regarding the impact of using ferritic steel on plasma operation and stability.
- ✍ We need to clarify how to list resources under the task which is actually performing a particular experiment or under the task that defines the experiment. This issue in particular needs to be clarified for both Tasks I and II.
- ✍ Task I is focusing on exploration of ideas for using LW in existing physics devices. Support for the required R&D modeling and experiments is being contributed from Task II. Design of LW modules will follow. Task I plans need to be modified to

include scoping, design and engineering as well as defining R&D for testing liquid surfaces in current plasma experiments.

- ✍ We need to add a subtask under task II on exploration of innovative ideas for liquid walls and for alternate confinement concepts.
- ✍ Task I plan needs to list the interaction with ALPS and ALIST.
- ✍ Mohamed Abdou asked for input (by E-mail) regarding whether we need to address disruptions in APEX in addition to what is done in ALPS.
- ✍ Startup issues are not currently addressed under task I. These are low priority at that time.
- ✍ We need to explore possible experiments and modeling that could be done to support applications of LW in IFE. Mohamed Abdou will take the lead on approaching key people in IFE community (e.g., P. Peterson, W. Mier).
- ✍ The Sn-CLIFF will be finalized and summarized in the November meeting. Task III will then switch to assessing the Flinabe-CLIFF design.