

2008 Proposals – Phase II

900723 Wave-Energy Extraction for Vertical Profiling Applications

This proposal mentions that Francisco's Group will maintain the mooring, but it may be more likely that DMO would have to maintain mooring. Please clarify.

During the preparation of phase 1 proposals, Francisco and I discussed the joint use of the Seahorse and mooring at the M0 site. Because almost all of the equipment already exists, the costs are low and the few items needed (chain, shackles, etc) will be purchased with 2007 funds at the end of this year. For deployment labor, the system is simple enough for the Zephyr crew and one or two science technicians to deploy, recover and service. This has been done before and is a straightforward procedure. For this reason, OSG time was not specifically included. Zephyr time was included in this proposal.

Please clarify and scope, in more detail, your software engineering tasks. Software engineering is projected to be heavily subscribed next year. Any effort to reduce the SW eng. request or prioritization of activities will be helpful.

There are two main software components required, a dynamic control system to operate the device at an optimum point, and a high-level control component to integrate the device with the battery system and the profiler. These tasks are straightforward and I can do them easily if software engineering personnel aren't available. As a result, the SE allocation would be nice, but some or all of the requested SE days could be shifted to the ME category without causing any problems.

Move discretionary budget to specific items in the budget or remove and request contingency when needed.

Done.

Identify who is going to what meetings.

Some combination of the following possibilities:

- Mellinger to Ocean or other conference to discuss electrical system design.
- Hamilton to ONR Buoy workshop, Oceans, or other conference to discuss system design and application.
- Hamilton travel to explore potential technology transfer opportunities.