MOOS mooring system 6/26/02 meeting notes

Present: John R., Mike R., Tom O., Jon E., Lance M., John G., Tim M., Mark C. (notes)

1. Update from the project scientist. *Work continues on abstract preparation for MSE 2003/4. See Johns link* http://www.mbari.org/~ryjo/mu/MSE.html *and follow the link "summary of current plans" in the first section.*

2. Project schedule update. *The MOOS mooring project is unable to make the planned August 19th deployment date given the schedule for hardware component arrival form manufacture. The new scheduled date for deployment is December 3. In order to make this date we must keep pushing hard on the project, the schedule is still very tight. Important dates are:*

Final mechanical assembly of major mooring components (flotation, tower, solar panels, bridle) - ***August 19th*** *All materials necessary for this work must be received from fabrication by this date!*

Final assembly and wiring of all mooring components (Controller and power housings, batteries, etc.) - ***September 2nd***

Start of final software, hardware and communications integration (all final electrical hardware in place) - ***September 9th***

Final pre-deployment assembly (snubber, riser terminations, anchor system) - ***October 22nd***

Mooring ready for ship loading and launch - ***November 6th****. We will then be ready to take advantage of any deployment opportunity that arises during mid to late November.*

3. Current task status.

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
3	power system prelim. design & diagram *In progress, CDR planned for week of July 8.*	8.33 days	Tue 2/12/02	Wed 6/26/02	Mellinger Ed[60%]	80%
4	power system housing specification/design *Jon Erickson following Craig Okuda design, still not known if we can use the same prints*	5 days	Thu 4/25/02	Fri 6/28/02	Mellinger Ed[60%]	70%
10	charge controller and monitoring *Design of*	10 days	Mon 5/20/02	Fri 6/28/02	Mellinger Ed[60%]	60%

	power monitoring circuitry in progress.					
11	fabricate and wire battery housing *Battery housings in manufacture.*	8.33 days	Mon 7/1/02	Thu 7/11/02	Mellinger Ed[60%],Erickson Jon[60%]	25%
14	design panel mounts and tower access *Details of panel mounts still TBD. Jon investigating availability of 'Z' Al channel for mounting.*	5 days	Fri 2/22/02	Wed 6/26/02	Mellinger Ed[60%],Erickson Jon[60%]	75%
20	solar power system CDR *CDR planned for week of July 8.*	0 days	Mon 7/1/02	Mon 7/1/02		0%
21	layout and fab power system board *Pending CDR, expected two weeks later.*	20 days	Tue 7/2/02	Mon 7/29/02	Mellinger Ed[20%],Duane Thompson[40%]	0%
33	temporary controller requirements specified *Hardware specification complete with the exception of possible review of adding camera enable and power switching.*	8.33 days	Mon 2/11/02	Tue 6/25/02	McBride Lance[60%]	95%
35	wave/acceleration instrument on order *Due 7/3/02.*	36 days	Wed 6/5/02	Wed 7/24/02		42%
41	controller wiring design complete *Details of wire runs between controller and power can TBD. Need to add 4 weeks to procure cable and 2 weeks to connectorize to schedule.*	8.33 days	Mon 4/29/02	Tue 7/2/02	McBride Lance[60%]	70%
42	controller housing and chassis specification/design *TBD. Preliminary connector layout complete*	6 days	Tue 3/26/02	Thu 6/27/02	Chaffey Mark[10%],McBride Lance[60%]	55%
43	temporary controller on order/fab *Additional CERF adapter boards in progress. DPA and SideKick available week of July 1. This will*	20 days	Tue 5/21/02	Mon 6/17/02		85%

	complete all hardware required for test deployment controller.					
44	fiber test card design *In progress by Scott Jensen.*	20 days	Thu 6/20/02	Wed 7/17/02	Scott Jensen[20%]	20%
46	controller housing fabrication *See power housing status.*	20 days	Thu 6/27/02	Thu 7/25/02		0%
47	RF transceivers housing design and fab. *No update.*	25 days	Thu 6/27/02	Thu 8/1/02	Erickson Jon[10%],McBride Lance[10%]	0%
48	compass driver software *No update.*	5 days	Tue 6/25/02	Mon 7/1/02	SE[50%]	0%
49	heave sensor software driver *Assigned to Rich Henthorn, meeting with instrument maker at MBARI July 3rd.*	15 days	Tue 6/25/02	Mon 7/15/02	Rich Henthorn	0%
50	Globalstar modem software driver *Need VPN setup before further testing. IS working on it and should be completed within one or two days.*	15 days	Tue 6/25/02	Mon 7/15/02	Tim Meese[50%]	0%
51	Z-Star sampling software driver *In progress, should be completed by the end of the week.*	15 days	Tue 6/25/02	Mon 7/15/02	Mike Risi	0%
56	riser cable termination socket design *No progress.*	8.33 days	Fri 4/19/02	Wed 7/3/02	Chaffey Mark[60%],Erickson Jon[60%]	20%
59	specify riser cable floats *No progress.*	4 days	Tue 6/25/02	Fri 6/28/02	Chaffey Mark	0%
68	snubber hose fabrication *Waiting for final fabrication quote.*	40 days	Tue 6/25/02	Mon 8/19/02		0%
69	bridle/snubber/anchor strain gage on order *Both snubber and anchor strain gages have*	30 days	Wed 6/12/02	Tue 7/23/02	Erickson Jon[60%]	33%

	been ordered. Delivery scheduled for 9/23/02.					
70	coilcord core cable fabrication *Still waiting for initial run of four test coils to be fabricated(now scheduled for July 1). MBARI will perform optical measurements and Duane T. is building cyclic test stand. This work will be highest priority so we can quickly analyze the results and release the final build.*	35 days	Mon 4/1/02	Fri 6/28/02		90%
71	coilcord fabrication *see above.*	35 days	Fri 5/24/02	Mon 8/5/02		25%
73	bending strain relief specified *No progress.*	3 days	Tue 6/25/02	Thu 6/27/02	Erickson Jon[60%]	0%
80	bridle final design *Final design proceeding, expect CDR week of July 8.*	5 days	Tue 3/26/02	Wed 6/26/02	Erickson Jon[60%]	75%
87	anchor system preliminary design *No progress.*	8.33 days	Tue 6/25/02	Fri 7/5/02	Erickson Jon[60%],Chaffey Mark[60%]	0%
94	Design and Fab. of stand-up support *Existing stand design can be duplicated with minor modifications. John Ferreira working on design.*	20 days	Wed 6/26/02	Tue 7/23/02	Erickson Jon	0%