

MOOS mooring system 9/25/02 meeting notes

Present: John G., Tim M., Andy, Lance, Ed M., Jon E., Duane, Carolyn T., Mike K., Mark C. (notes)

1. Schedule update. *Just over two months until deployment date. Need to pick up progress on buoy assembly, wiring and termination design.*
2. Budget update. *Supplemental request submitted for additional funds to cover anticipated budget overrun of about 10% through the end of the year. Costs are being watched carefully. Please do not charge to project account without PO or prior authorization.*
3. Special action items:
 - Check power-on state of MOOS instruments (non-volatile configuration retention). - Mark C. *Compass turns counter issue resolved.*
 - Programming guide/software functional specification *(notes from Tom O.)*

1. Need to get software onto deployed hardware ASAP. Lance's plan is to finish wiring chassis today and tomorrow, then begin to transfer hardware (cerfboard, sidekick, DPA's, instruments) from the breadboard to the deployment article. Lance has all cables and connectors needed. He expects to ready to give us (SW team) the integrated deployment article by Monday.

2. Chaffey would like to move NMC onto the buoy during first week of October.

3. Reset issue; capability to reset both processors at sea would seem to be a requirement, given the long duration of deployment. Mooring infrastructure is not capable of simply toggling power to the processor can. Discussed reset-by-pager method. We must do some work on NMC to re-enable Sidekick reset capability, and to enable cerfboard reset capability (blue wire holster?)

4. Need to setup outdoor test, to verify Globalstar comms integration.

- Need to start working on deployment plan and determine hardware and procedures necessary. Need to verify over-boarding block capacity. *This will become a recurring agenda item.*

4. Current task status:

ID	Task Name	Duration	Start	Finish	Resource Names	%
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						Complete
1	Mooring test deployment	212 days	Mon 2/11/02	Tue 12/3/02		72%
8	fabricate and wire battery housing	8.33 days	Mon 7/1/02	Thu 9/5/02	Mellinger Ed[60%],Erickson Jon[60%]	80%
16	solar panel mount fabrication <i>Trying various cements and working on assembly method.</i>	13 days	Wed 9/4/02	Mon 9/23/02	shop[50%]	0%
25	power system distribution board schematic <i>CDR planned for this Friday (9/27/02).</i>	16.67 days	Wed 8/21/02	Fri 9/13/02	Mellinger Ed[60%]	75%
28	power system housing fabrication <i>Expected out of shop within 2 days. Chassis going into shop today.</i>	15 days	Thu 9/5/02	Wed 9/25/02	shop[75%]	0%
30	layout and fab power system board <i>Pending CDR above.</i>	15 days	Wed 9/18/02	Wed 10/9/02	Mellinger Ed[20%],Duane Thompson[80%]	0%
45	fiber test card fabrication and test. <i>Standalone check-out complete.</i>	15 days	Tue 9/10/02	Mon 9/30/02	Scott Jensen[20%],Duane Thompson[40%]	50%
46	controller housing and chassis fabrication <i>Housing in shop and due out 9/25/02. Expected out of shop within 2 days.</i>	20 days	Tue 8/20/02	Thu 9/26/02		75%
48	compass software driver <i>Persistence issue resolved.</i>	10 days	Tue 8/20/02	Tue 9/10/02	Tom O'Reilly[50%]	90%
49	heave sensor software driver <i>In testing.</i>	15 days	Fri 7/26/02	Fri 9/13/02	Rich Henthorn	90%
50	GPS software driver <i>In testing.</i>	10 days	Tue 8/20/02	Tue 9/10/02	Kent Headley[50%]	90%
51	Globalstar modem software driver. <i>No</i>	15 days	Tue 8/20/02	Fri 9/13/02	Tim Meese[50%]	75%

update on MBARI firewall problem.

52	Z-Star sampling software driver <i>No update on addressing local memory space and "tuning" of the polling rates issues.</i>	15 days	Tue 6/25/02	Fri 9/6/02	Mike Risi	95%
53	SSDS instrument metadata plan <i>Meet with John G. and MOOS team to discuss SSDS data handling plans.</i>	3 days	Tue 8/20/02	Wed 9/4/02	John Graybeal[20%]	75%
54	temporary controller final assembly, test and software integration <i>Software integration and test currently underway, plan on moving to "deployed" hardware Monday.</i>	16.67 days	Fri 9/13/02	Tue 10/8/02	McBride Lance[60%]	0%
58	riser cable termination socket design <i>No progress.</i>	8.33 days	Fri 4/19/02	Wed 8/28/02	Chaffey Mark[60%],Erickson Jon[60%]	20%
70	snubber hose fabrication <i>Factory on track for 10/17/02 completion.</i>	83 days	Tue 6/25/02	Thu 10/17/02		75%
71	snubber union/instrument cage assembly design <i>Mark C. supposed to meet with Jon on last Thursday and finalize boss locations. No progress yet.</i>	4 days	Tue 6/11/02	Thu 9/5/02	Erickson Jon[15%]	75%
74	coilcord core cable fabrication <i>Optical penetrator fabrication complete and the pressure test is underway. The cable build for this is becoming critical path!</i>	35 days	Mon 4/1/02	Mon 9/9/02		90%
75	coilcord fabrication <i>Pending above.</i>	15 days	Mon 9/9/02	Mon 9/30/02		0%
76	snubber electro-optical connectors delivery time <i>Pending above.</i>	131 days	Mon 4/22/02	Tue 10/22/02		60%

86 tower fabrication *Panel frame mounting in progress.* 35 days Tue 6/25/02 Wed 9/4/02 98%

91 anchor system preliminary design. *Pending results from Mark Grosenbaugh.* 8.33 days Tue 8/20/02 Thu 9/12/02 Erickson Jon[60%],Chaffey Mark[60%] 25%

MOOS test mooring anchor weights 9/12/02 mark C. rev. 1.5					
air weight lbs.	water weight lbs.	water weight kg	number of 840lb wheels	Stack diameter meters	Stack height meters
5040	4381.07	1986.88	6.0	0.96	1.1
5880	5111.25	2318.03	7.0	0.96	1.2
6720	5841.43	2649.17	8.0	0.96	1.4
7560	6571.61	2980.32	9.0	0.96	1.6

98 Design and model test mooring configuration *In progress.* 50 days Tue 8/20/02 Mon 10/28/02 Chaffey Mark[20%] 25%

99 Design and Fab. of stand-up support *In progress.* 20 days Tue 8/20/02 Mon 9/16/02 Erickson Jon 35%

100 final assembly of surface float mechanical components *In progress.* 10 days Mon 9/23/02 Mon 10/7/02 Chaffey Mark[60%],Erickson Jon[60%],Mellinger Ed[60%],observatory support[200%],Etech[80%],Mtech[80%],shop[80%] 0%

101 Mooring stood up in highbay *Need to* 0 days Tue 9/17/02 Tue 9/17/02 0%

*resolve when can we start wiring tower.
Elevator fit-up will start October 7. Bottom
paint issue needs to be resolved.*