

MOOS mooring system 10/16/02 meeting notes

Present: Tim M., Duane T., John R., Ed M., Lance, Duane E., Carolyn T., Jon E., Mark C. (notes)

1. Schedule update. *7 weeks to deployment.*

Packard Foundation tour Tuesday October 22, will be coordinated to cause minimal disruption to buoy assembly.

Lance out October 25-Nov. 4.

Zorba out after October 26.

Andy Hamilton out Oct. 28-Nov.7

2. Budget update. *Budget tight through deployment. Planned expenses protected.*

3. Special action items:

- Software integration and move to deployed hardware. *Software running well under stress test conditions. Failure to boot CERF issue with test setup, needs to be tracked down. Need to slow down sampling to final rates and run end-to-end test coordinated with prototype archival system developed by SSDS. Date for this TBD. Duane E. scheduling. Power consumption is an issue for the test system, current power usage estimated over 20W, Lance and Scott investigating.*
- Machine shop job status. *Work is progressing well. Riser cable termination design will go in shop next week and require a major push to get all the parts made on schedule. Mike Parker helping with termination materials ordering and other efforts as necessary.*

4. Current task status:

Tasks

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
1	Mooring test deployment	212 days	Mon 2/11/02	Tue 12/3/02		85%
16	solar panel mount fabrication <i>All solar panel assemblies glued and at least two completely done. Work will finish in one or two days. Clark starting panel wiring and</i>	13 days	Wed 9/4/02	Fri 10/4/02	shop[50%]	85%

potting.

28	power system housing fabrication <i>Housing complete, will go out today for quick- turn anodizing. Same with bulkhead. Chassis parts due from shop 10/11/02 - should be out this week.</i>	15 days	Thu 9/5/02	Wed 10/16/02	shop[75%]	95%
30	layout and fab power system board <i>Duane charging on layout. Carolyn will have all parts here by beginning of next week for board fabrication.</i>	15 days	Tue 10/1/02	Tue 10/22/02	Mellinger Ed[20%],Duane Thompson[80%]	70%
31	assemble solar system housing and test <i>Plan is for Duane to build chassis while board out to fab. Critical schedule item to get this chassis built, wired and tested. This work must be complete by 10/29/02 at the latest!</i>	5 days	Tue 10/22/02	Tue 10/29/02	Mellinger Ed[50%]	0%
48	compass software driver <i>In test.</i>	10 days	Tue 8/20/02	Wed 10/16/02	Tom O'Reilly[50%]	95%
49	heave sensor software driver <i>In test</i>	15 days	Fri 7/26/02	Wed 10/16/02	Rich Henthorn	95%
50	GPS software driver <i>In test</i>	10 days	Tue 8/20/02	Wed 10/16/02	Kent Headley[50%]	95%
51	globalstar modem software driver <i>In test</i>	15 days	Tue 8/20/02	Thu 10/17/02	Tim Meese[50%]	90%
52	Z-Star sampling software driver <i>In test</i>	15 days	Tue 6/25/02	Wed 10/16/02	Mike Risi	95%
54	temporary controller final assembly, test and software integration <i>Pager reset circuit being added and tested.</i>	16.67 days	Mon 9/9/02	Thu 10/17/02	SE group & McBride[60%]	90%
55	Controller and power system lab integration and test <i>Final step before</i>	5 days	Tue 10/29/02	Tue 11/5/02	Mellinger Ed[50%],Duane Thompson[50%],McBride	0%

	<i>moving all electrical hardware to the buoy (11/5).</i>				Lance[50%],Kent Headley[25%]	
	riser cable termination socket design <i>PDR held Tuesday. No major design changes.</i>					
60	<i>Detailed fabrication drawings being done by Jon, Farley and Mark to make Monday CDR schedule.</i>	8.33 days	Fri 4/19/02	Fri 10/18/02	Chaffey Mark[60%],Erickson Jon[60%]	65%
61	riser cable termination socket fabrication	10 days	Fri 10/18/02	Fri 11/1/02	shop[75%]	0%
73	snubber hose fabrication <i>Help up by material shortage, delivery will be late. Calling factory twice a day.</i>	87.5 days	Tue 6/25/02	Thu 10/24/02		94%
74	snubber union/instrument cage assembly design <i>CDR scheduled for Friday, see review calendar.</i>	4 days	Tue 6/11/02	Wed 10/16/02	Erickson Jon[15%]	95%
75	snubber union/instrument cage assembly fabrication <i>Goes to shop right after CDR review.</i>	10.67 days	Wed 10/16/02	Wed 10/30/02	shop[75%]	0%
78	coilcord fabrication <i>Core cable complete and shipped to Whitney Blake for extruding and winding. Production schedule delay until early Nov. which is completely unacceptable. Mark C. working with production manager to reschedule, may require rush premium (overtime at the factory).</i>	6 days	Fri 10/4/02	Thu 10/17/02		75%
79	snubber electro-optical connectors delivery time <i>Still predicted to be two weeks after receiving CF material.</i>	131 days	Mon 4/22/02	Thu 11/7/02		60%

94	anchor system preliminary design <i>Concept designs discussed, need to finalize design and review. Desire anti-rotation for test mooring.</i>	8.33 days	Tue 8/20/02	Tue 10/22/02	Erickson Jon[60%],Chaffey Mark[60%]	50%
95	anchor system PDR <i>Need to schedule.</i>	0 days	Tue 10/22/02	Tue 10/22/02		0%
101	Design and model test mooring configuration <i>Andy plans on reviewing configuration models and deployment calculations before leaving for Oceans conference.</i>	50 days	Tue 8/20/02	Tue 11/5/02	Andy Hamilton[20%]	70%
103	final assembly of surface float mechanical components <i>Most major assembly work complete. Still need misc. mounts, elevator mechanism and notch cut in bridle for strain gage.</i>	10 days	Fri 9/20/02	Wed 10/16/02	Chaffey Mark[60%],Erickson Jon[60%],Mellinger Ed[60%],observatory support[200%],Etech[80%],Mtech[80%],shop[80%]	90%
104	Mooring stood up in highbay	0 days	Wed 10/16/02	Wed 10/16/02		0%
105	Wire mooring and tower <i>Wiring of solar panels started, additional wiring commences as soon as panels permanently installed.</i>	5 days	Thu 10/17/02	Wed 10/23/02	Chaffey Mark[60%],Kelley Mike,Mellinger Ed,observatory support,Etech[75%],Duane Thompson	0%
106	Fabricate power system Hoffman boxes <i>Johnny will fab. and assemble after Ed delivers location sketch.</i>	1 day	Wed 10/16/02	Wed 10/16/02		0%
107	Final instrument integration and shore testing <i>Rescheduled to start Nov. 5. We MUST HOLD TO THIS DATE TO HAVE ADEQUATE FINAL TESTING TIME!</i>	20 days	Tue 10/22/02	Mon 11/18/02	Chaffey Mark[60%],Erickson Jon[60%],Mellinger Ed[60%],observatory support[200%],Etech[75%],Mtech[80%],shop[75%]	0%

110	Prepare deployment plan <i>Pending deployment modeling results above.</i>	10 days	Wed 10/16/02	Tue 10/29/02	Kelley Mike[5%],Chaffey Mark[5%],Erickson Jon[5%]	0%
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