

MOOS mooring system 10/2/02 meeting notes

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

1. Schedule update. *9 weeks to deployment. Solar panel fab., power system, and cable termination are all critical areas of the schedule.*
2. Budget update. *Budget revision approved by management - but only provides for estimated expenses through the end of the year. Please seek prior approval for all expenses, especially credit card purchases so we don't go over budget.*
3. Special action items:
 - Software integration and move to deployed hardware. *Work around until power can available is just SmartStar chassis. Deployed power can system estimated to be ready in three weeks (critical schedule item). Will be lab tested with controller can before whole package moves to buoy.*
 - Pager/reset line status. *Meeting this afternoon to go over circuit.*
 - Machine shop job status. *Solar panel assembly current pacing item (Jim Scholfield and Johnny). Planned Mike Parker will complete elevator assembly (using tower #2) as soon as mooring returns from painting at Gravelle's on Monday 10/7. Wiring of tower can begin as soon as four solar panels are assembled. Estimated this will be in about one week (10/10).*
4. Current task status:

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
1	Mooring test deployment	212 days	Mon 2/11/02	Tue 12/3/02		80%
8	fabricate and wire battery housing <i>Clark Brecht wiring, this job is nearly complete.</i>	8.33 days	Mon 7/1/02	Tue 10/1/02	Mellinger Ed[60%], Erickson Jon[60%]	90%
16	solar panel mount fabrication <i>Glue selection will be finalized today or tomorrow at the latest. The panel assembly</i>	13 days	Wed 9/4/02	Fri 10/4/02	shop[50%]	75%

is estimated to take about one day each (see above).

25	power system distribution board schematic <i>CDR will take place tomorrow - Thursday at time TB announced.</i>	16.67 days	Wed 8/21/02	Tue 10/1/02	Mellinger Ed[60%]	95%
28	power system housing fabrication <i>Being furnace braised, then anodized, should ready when needed.</i>	15 days	Thu 9/5/02	Thu 10/3/02	shop[75%]	85%
29	Power system/ distribution board CDR <i>See above.</i>	0 days	Tue 10/1/02	Tue 10/1/02		0%
30	layout and fab power system board <i>Duane T. highest priority after he receives netlist from Ed.</i>	15 days	Tue 10/1/02	Tue 10/22/02	Mellinger Ed[20%], Duane Thompson[80%]	0%
46	controller housing and chassis fabrication <i>Chassis complete, housing being furnace braised, then anodized, should ready when needed.</i>	20 days	Tue 8/20/02	Tue 10/1/02		95%
48	compass software driver <i>In test.</i>	10 days	Tue 8/20/02	Tue 10/1/02	Tom O'Reilly[50%]	90%
49	heave sensor software driver <i>In test.</i>	15 days	Fri 7/26/02	Wed 10/2/02	Rich Henthorn	90%
50	GPS software driver <i>In test.</i>	10 days	Tue 8/20/02	Tue 10/1/02	Kent Headley[50%]	90%
51	Globalstar modem software driver <i>Firewall issues mostly resolved, Tim writing DNS service support into driver for establishing IP address at connection time. Connection time about 30 seconds. Need to test driver with full IP connection. Current driver establishes connection from buoy only.</i>	15 days	Tue 8/20/02	Fri 10/4/02	Tim Meese[50%]	75%

(future reference only: MOOS requires ability to establish connection from either side of link)

52	Z-Star sampling software driver <i>In test</i>	15 days	Tue 6/25/02	Tue 10/1/02	Mike Risi	95%
54	temporary controller final assembly, test and software integration <i>All software drivers currently in test. Modem driver in progress.</i>	16.67 days	Mon 9/9/02	Mon 10/7/02	McBride Lance[60%]	70%
58	riser cable termination socket design <i>No progress. Mark committed to PDR of design next Wednesday (10/9).</i>	8.33 days	Fri 4/19/02	Wed 10/9/02	Chaffey Mark[60%],Erickson Jon[60%]	20%
71	snubber union/instrument cage assembly design <i>Mark and Jon will meet Thursday and finalize.</i>	4 days	Tue 6/11/02	Tue 10/1/02	Erickson Jon[15%]	85%
74	coilcord core cable fabrication <i>In progress, slight margin left in schedule if every step in manufacture goes as planned.</i>	35 days	Mon 4/1/02	Fri 10/4/02		90%
75	coilcord fabrication <i>Pending cable build above, factory committed to fast turn around.</i>	6 days	Fri 10/4/02	Mon 10/14/02		0%
91	anchor system preliminary design <i>Pending configuration model runs by Andy, then anchor drop model runs. Expect results by next week.</i>	8.33 days	Tue 8/20/02	Wed 10/9/02	Erickson Jon[60%],Chaffey Mark[60%]	25%
98	Design and model test mooring configuration <i>See above.</i>	50 days	Tue 8/20/02	Mon 10/28/02	Andy Hamilton[20%]	62%
100	final assembly of surface float mechanical	10 days	Fri 9/20/02	Fri 10/4/02	Chaffey Mark[60%],Erickson	78%

	components <i>Mooring bridle and float currently as Gravelle's boatyard being painted. Planned Mike Parker will complete elevator assembly (using tower #2) as soon as mooring returns from painting at Gravelle's on Monday 10/7. Wiring of tower can begin as soon as four solar panels are assembled. Estimated this will be in about one week (10/10).</i>				Jon[60%],Mellinger Ed[60%],observatory support[200%],Etech[80%],Mtech[80%],shop[80%]	
102	Wire mooring and tower <i>Will start as soon as solar panels built and hung on tower. Tower will be wired off buoy initially.</i>	5 days	Fri 10/4/02	Fri 10/11/02	Chaffey Mark[60%],Kelley Mike,Mellinger Ed,observatory support,Etech[75%],Duane Thompson	0%
106	Prepare deployment plan <i>Outstanding issues are verifying over-boarding sheave load rating with Pt. Sur, Mark C. will check with Steve Bliss. Further work on determining need for stern chute and clearly defining all deployment steps will be after M1 deployment 10/17.</i>	10 days	Tue 10/1/02	Mon 10/14/02	Kelley Mike[5%],Chaffey Mark[5%],Erickson Jon[5%]	0%