

MOOS mooring system 5/22/02 meeting notes

13 weeks to deployment

Present: John R., Jon E., Duane E., Tom O., Ed M., Tim M., Keith Raybould, Mark C. (notes)

Action items from meeting:

- *Lance, Tim and Wayne to meet and estimate tasks and time for interfacing Globalstar Satcom modem.*
- *Before tower/float CDR Friday:*
 - *Jon, Mark and Mike (and possibly representative from Pt. Sur) to meet and discuss mooring deployment/recovery weight issues (overall weight is around 3200 lbs.).*
 - *Stability needs to be re-checked without lead counterweights in bridle and solar panel mounting area needs to be confirmed with Ed.*

1. Update from the project scientist. *Focus groups on specific areas of scientific concentration for 2003/2004 MSE underway.*

2. Project schedule. *Schedule has slipped about one month on preparations for August 19 test deployment date. Next three weeks are critical for: 1. Getting major fabrication jobs underway such as tower, float and controller electronics. 2. Resolving remaining technical issues such as strain gage and riser cable termination details. Mark C. to meet with Rich Mueller to discuss Pt. Sur re-scheduling issues.*

3. Current task status.

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
1	Mooring test deployment	167.67 days	Mon 2/11/02	Wed 10/2/02		23%
3	power system prelim. design & diagram <i>In progress.</i>	8.33 days	Tue 2/12/02	Thu 5/23/02	Mellinger Ed[60%]	70%
4	power system housing specification/design <i>Current AI housing design has possible</i>	5 days	Thu 4/25/02	Mon 5/27/02	Mellinger Ed[60%]	50%

problem with O-ring seal design. Jon E. tracking progress to ensure MOOS mooring had Al housing available (Power housing requires Al for heat transfer).

10	charge controller and monitoring <i>Charge controller now COTS unit. Monitoring functions will be built into the power distribution board.</i>	10 days	Mon 5/20/02	Fri 5/31/02	Mellinger Ed[60%]	20%
14	design panel mounts and tower access <i>Details of panel mounts still TBD. Jon & Ed investigating availability of 'Z' Al channel for mounting.</i>	5 days	Fri 2/22/02	Mon 3/11/02	Mellinger Ed[60%],Erickson Jon[60%]	60%
15	specify and order panels <i>In progress. Waiting for Solarex vendor response on providing unframed panels. Backup strategy is to purchase framed Siemens panels and disassemble.</i>	6 days	Fri 3/1/02	Wed 5/22/02	Mellinger Ed[60%]	95%
16	panel delivery time <i>Estimated 4 weeks.</i>	21 days	Fri 5/24/02	Fri 6/21/02		0%
17	select solar charge controller/PPT <i>Final selection TBD, two possible COTS units.</i>	10 days	Tue 3/19/02	Tue 6/18/02	Mellinger Ed[60%]	25%
24	turbine mount and access design <i>Complete.</i>	1 day	Fri 3/8/02	Fri 3/8/02	Mellinger Ed[60%],Erickson Jon[60%]	75%
27	select wind charge controller <i>Complete. Built in unit for test deployment.</i>	8.33 days	Thu 3/28/02	Mon 5/27/02	Mellinger Ed[60%]	50%
28	design wind monitoring hardware <i>Routed to A/D board as are other power monitoring signals.</i>	8.33 days	Mon 5/27/02	Thu 6/6/02	Mellinger Ed[60%]	0%

32	temporary controller requirements specified <i>Specifications nearly complete. Will be reviewed at PDR scheduled for Thursday, 5/23.</i>	8.33 days	Mon 2/11/02	Tue 3/26/02	McBride Lance[60%]	95%
34	wave/acceleration instrument on order <i>Order waiting on controller PDR.</i>	35 days	Tue 5/21/02	Mon 7/8/02		0%
35	temporary controller specified <i>Done, in case you have not been paying attention it is the NMC system with a CERF adapter board until SideARM CPU is ready.</i>	8.33 days	Mon 3/4/02	Tue 3/26/02	McBride Lance[60%]	95%
39	RF communications specified <i>Plan is to use the Globalstar/Qualcomm modem or Freewave modem. Final choice depends on success of Freewave tests and resolution of the interface complexity of the Globalstar modem.</i>	8.33 days	Tue 3/26/02	Thu 5/23/02	McBride Lance[60%]	75%
40	controller wiring design complete <i>In progress.</i>	8.33 days	Mon 4/29/02	Fri 5/31/02	McBride Lance[60%]	45%
41	controller housing and chassis specification/design <i>Pending final interconnect wiring design. Then housing length, bulkhead layout and chassis need to be finalized.</i>	6 days	Tue 3/26/02	Thu 5/23/02	Chaffey Mark[10%],McBride Lance[60%]	50%
42	temporary controller on order/fab <i>Pending PDR on controller.</i>	20 days	Tue 5/21/02	Mon 6/17/02		0%
48	riser cable termination socket design <i>No progress, becoming critical.</i>	8.33 days	Fri 4/19/02	Wed 5/29/02	Chaffey Mark[60%],Erickson Jon[60%]	20%

55	bridle/snubber strain gage specified <i>Mark C. working with Jon E. and outside vendors to specify. Planning on 4-20mA current loop gage connected directly to A/D system.</i>	8.33 days	Thu 2/28/02	Mon 5/27/02	unassigned EE[60%]	40%
57	snubber hose final design specification <i>Waiting for final specification from Walter Paul (WHOI). Flange has been finalized as a 4" weld-neck pipe flange, class 150, 316L stainless steel, electro-polished and passivated.</i>	8.33 days	Wed 3/27/02	Thu 5/23/02	Chaffey Mark[60%],Erickson Jon[60%]	75%
58	snubber hose fabrication <i>No schedule time until specification completed.</i>	84 days	Thu 5/23/02	Wed 9/18/02		0%
61	coilcord core cable fabrication <i>Initial run of 200 feet complete and forwarded to Whitney Blake for construction of test coilcord (two week process). After testing is successful 1000 more feet will be run and at least four coil-cords constructed.</i>	35 days	Mon 4/1/02	Fri 5/24/02		90%
62	coilcord fabrication <i>See above. Final build specification needs to be re-worked to note vulcanization of straight sections as well as short pigtails for base of snubber section.</i>	35 days	Fri 5/24/02	Fri 7/12/02		0%
64	bending strain relief specified <i>No progress. Mark C. to forward TMT modeling results of South Bay cable.</i>	3 days	Tue 5/21/02	Thu 5/23/02	Erickson Jon[60%]	0%
70	tower final detailed design <i>Complete, PDR scheduled for Friday. Three outstanding items: overall weight is around 3200 lbs., stability needs to be re-checked without lead</i>	8.33 days	Wed 4/17/02	Mon 4/29/02	Erickson Jon[60%]	84%

counterweights in bridle and solar panel mounting area needs to be confirmed with Ed.

71	bridle final design <i>In progress.</i>	5 days	Tue 3/26/02	Thu 4/25/02	Erickson Jon[60%]	50%
72	tower and bridle CDR <i>Scheduled for Friday 5/24/02. Remaining issue are the overall weight, stability needs to be re-checked without lead counterweights in bridle and solar panel mounting area needs to be confirmed with Ed.</i>	0 days	Tue 5/21/02	Tue 5/21/02	Erickson Jon	0%
75	float design <i>CDR scheduled for Friday.</i>	5 days	Mon 3/4/02	Tue 5/21/02	Erickson Jon[60%]	90%
78	anchor system preliminary design <i>No progress.</i>	8.33 days	Tue 5/21/02	Fri 5/31/02	Erickson Jon[60%], Chaffey Mark[60%]	0%