

MOOS mooring 3/20/02 meeting notes

22 weeks to deployment

Present: Jon E., Lance M., Ed M., Keith R., Mark C. (notes)

Misc. business: Website needs to be updated with area for analysis and specification documents. Should also have link to John's MSE 2003 site.

1. Update from project scientist. *John working on NOPP proposal with Francisco for five-year funding for MOOS/MSE 2003+ science experiments.*
2. Project schedule update. (Mark C.) *Review of the project timeline shows steady progress but several critical paths remain for August, the solar panel specification/mount design/final float design sequence, the snubber development sequence and lastly the riser cable selection and delivery.*
3. Current task status.

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
2	power system design <i>In progress.</i>	87.33 days	Tue 2/12/02	Thu 6/13/02	Mellinger Ed[45%]	34%
3	power system prelim. design & diagram <i>In progress.</i>	8.33 days	Tue 2/12/02	Wed 3/13/02	Mellinger Ed[60%]	60%
7	battery housing size, design and locate <i>Jon has nearly complete design for aluminum "deep drawn" boxes with custom flanges and lids. Needs to check connector clearance. Estimates one or two more days for completion and plan check.</i>	10 days	Wed 3/6/02	Thu 3/21/02	Mellinger Ed[60%], Erickson Jon[60%]	75%
12	design panel mounts and tower access <i>On hold pending panel selection.</i>	5 days	Fri 2/22/02	Mon 3/11/02	Mellinger Ed[60%], Erickson Jon[60%]	60%
13	specify and order panels Critical Path! <i>Representative panels received. Mounting</i>	10 days	Fri 3/1/02	Fri 3/22/02	Mellinger Ed[60%]	60%

may be more difficult than originally estimated. Final selection absolute deadline is end of March.

15	select solar charge controller/PPT <i>Test units on order.</i>	10 days	Tue 3/19/02	Thu 4/4/02	Mellinger Ed[60%]	10%
22	turbine mount and access design <i>Final tower design on hold pending solar panel selection so panel mounts and tower design can proceed.</i>	1 day	Fri 3/8/02	Fri 3/8/02	Mellinger Ed[60%],Erickson Jon[60%]	75%
30	temporary controller requirements specified <i>Requirements being finalized. Concept review of design architecture next step.</i>	8.33 days	Mon 2/11/02	Tue 3/19/02	McBride Lance[60%]	90%
31	wave/acceleration instrument specified <i>Triaxys unit looks good. Running interface protocol by software for approval then will place on order.</i>	5 days	Thu 2/28/02	Thu 3/14/02	Chaffey Mark[60%]	10%
32	wave/acceleration instrument on order	35 days	Thu 3/14/02	Thu 5/2/02		0%
33	temporary controller specified <i>CERF board adapter and NMC architecture preferred design.</i>	8.33 days	Mon 3/4/02	Thu 3/21/02	McBride Lance[60%]	95%
36	CERF adapter board debugging <i>Board back for second turn - some GPIO pin levels needed shifting and extra PS filtering added.</i>	12 days	Thu 3/14/02	Fri 3/29/02	McBride Lance[60%],SE[60%]	33%
37	RF communications specified <i>Just starting to work on this.</i>	8.33 days	Tue 3/19/02	Mon 4/1/02	McBride Lance[60%]	0%
42	selection of riser cable vendor <i>Critical Path! TMT analysis of three cable designs on</i>	20 days	Mon 2/11/02	Wed 3/20/02	Chaffey Mark[60%],Mellinger Ed[10%]	90%

"short list" completed. Each vendors offering had strain #'s that raised concerns on the survivability of the copper and/or optical elements at our maximum working load specification of 6000lbs. Letters asking vendors to respond to concerns emailed Monday and Tuesday. Formal replies from vendors promised for Thursday and Friday. Final selection of cable vendor is very time critical.

snubber electro-optical connectors specified
Critical Path! Preferred vendor SeaCon has been unusually slow to finalize price and delivery. Call to company president Tuesday seems to have helped increase the frequency of correspondence but still no final quote. Promised for Thursday.

49	snubber electro-optical connectors specified Critical Path! Preferred vendor SeaCon has been unusually slow to finalize price and delivery. Call to company president Tuesday seems to have helped increase the frequency of correspondence but still no final quote. Promised for Thursday.	5 days	Mon 2/18/02	Wed 3/20/02	Chaffey Mark[60%],Mellinger Ed[10%]	75%
51	bridle/snubber strain gage specified <i>No progress.</i>	8.33 days	Thu 2/28/02	Thu 3/14/02	unassigned EE[60%]	40%
52	bridle/snubber strain gage mechanical design <i>No progress.</i>	8.33 days	Fri 3/15/02	Wed 3/27/02	Erickson Jon[60%]	0%
68	bridle final design <i>Final bridle design on hold pending battery box design and solar panel selection so panel mounts, clamping ring and tower design can proceed which will allow final weight and balance calculations so we'll know if we need lead ballast or not. Also need flange and connector specification for snubber. Final requirement is to verify compass deviation</i>	5 days	Tue 3/19/02	Mon 3/25/02	Erickson Jon[60%]	0%

correction if non-stainless bridle used.

float design *Final float design on hold
pending battery box design and solar panel
selection so panel mounts, clamping ring
and tower design can proceed which will
allow final weight and balance calculations.*

72		5 days	Mon 3/4/02	Fri 3/22/02	Erickson Jon[60%]	80%
75	anchor system preliminary design <i>New task, no progress yet.</i>	8.33 days	Tue 3/19/02	Fri 3/29/02	Erickson Jon[60%],Chaffey Mark[60%]	0%