

MOOS mooring system 3/6/02 meeting notes

Present: Jon E., Mike K., Lance M., Ed M., Mark C. (notes)

1. PDR on tower, bridle and float held 3/4/02. See project website for documents and follow-up notes. Issues raised will be addressed by CDR.
2. Mike reports maximum lifting capacity of Pt. Sur crane is 3000 lbs. at full extension. Normal deployment requires nearly full extension.
3. Issue raised of what the exact location of the test mooring will be. Intention is to site as close to M2 as feasible. Action item for Mark and Mike to fix coordinates of deployment.
4. Update on current task status:

ID	Task Name	Duration	Start	Finish	Resource Names	% Complete
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 Critical path! <i>Decision made to design battery box in-house. Jon estimates five days for completion (3/15/02).</i>	10 days	Wed 3/6/02	Wed 3/20/02	Mellinger Ed[60%],Erickson Jon[60%]	60%
12	design panel mounts and tower access <i>Final design of panel mounts on hold pending panel evaluation.</i>	5 days	Fri 2/22/02	Mon 3/11/02	Mellinger Ed[60%],Erickson Jon[60%]	60%
13	specify and order panels <i>Test panels on order. Will be used to verify mechanical robustness and mounting details.</i>	10 days	Fri 3/1/02	Mon 3/18/02	Mellinger Ed[60%]	50%
30	temporary controller requirements specified <i>Initial list has been made. More detail being added. Lance asked for detail input by Friday. Also see #31 below.</i>	8.33 days	Mon 2/11/02	Mon 3/11/02	McBride Lance[60%]	80%
31	wave/acceleration instrument specified Critical path! Slow progress, Datowell has not responded to last email.	5 days	Thu 2/28/02	Thu 3/14/02	Chaffey Mark[60%]	10%
33	temporary controller specified - <i>CERF cube adapter and NMC architecture the preferred choice and will be used unless an insurmountable problem found. Would have same architecture as NMC but not have sophisticated power management or second Ethernet port. Signal conditioning electronics would be needed to complete design. PDR on this design alternative scheduled for before March 20th. NMC project is planning on using this CPU board and has deadline of April 1 for fully debugged article.</i>	8.33 days	Mon 3/4/02	Wed 3/20/02	McBride Lance[60%]	40%
39	selection of riser cable vendor - <i>TMT contracted to assist in final evaluation. Seven proposals narrowed down to three best technically. TMT is now modeling proposed cable constructions to verify vendor estimated working load cable strain and rotation values. Estimated completion March 12th. Goal is to have PDR on riser cable and snubber designs next week and place PO on March 15th.</i>	20 days	Mon 2/11/02	Wed 3/13/02	Chaffey Mark[60%],Mellinger Ed[10%]	80%

45	coil cord specified - Critical path! Converging on final design with Walter Paul. All or our requirements can currently be met although we are on the edge of our maximum diameter and minimum optical fiber bending values. Specification written and will be forwarded to cable manufacturer Monday, 3/11/02.	5 days	Mon 2/11/02	Mon 3/11/02	Chaffey Mark[20%],Walter Paul[50%],Mellinger Ed[10%]	75%
46	snubber electro-optical connectors specified - Critical path! Proposed design submitted to SeaCon. Connector price and delivery proposal due 3/11/02 from SeaCon.	5 days	Mon 2/18/02	Wed 3/13/02	Chaffey Mark[60%],Mellinger Ed[10%]	75%
48	bridle/snubber strain gage specified - Current snubber design can incorporate strain gage in center instrument cage section and has wiring to support it. Mark Chaffey pursuing possible solution with company WHOI is working with on a separate 10" flange application (fish feeder).	8.33 days	Thu 2/28/02	Thu 3/14/02	unassigned EE[60%]	40%
69	float design - Cannot be completed until battery box design complete. PDR raised issue of reserve buoyancy under survival conditions. Current design has 2.9% reserve buoyancy. One expert recommendation has been to have 50%. Mark Chaffey suggests 15-20% although final value should also take into consideration the maximum line pull that can be placed on the riser cable. 15-20% number can be met within our size and weight restrictions.	5 days	Mon 3/4/02	Thu 3/21/02	Erickson Jon[60%]	70%