

15 April 2011

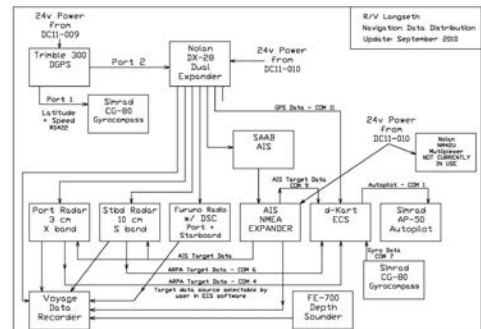
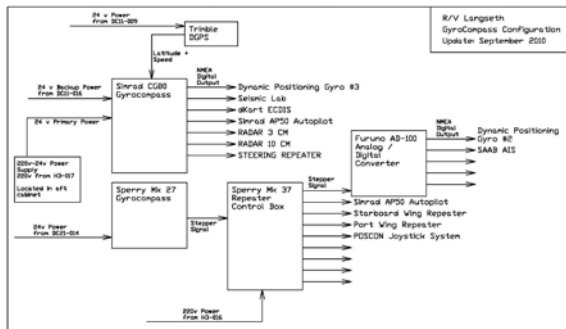
## R/V MARCUS G LANGSETH BEST PRACTICES EXAMPLES

### PREUNDERWAY SAFETY BRIEF

A thorough safety brief was conducted by the Science Officer using a PowerPoint presentation prior to getting underway. The brief was followed by a tour of the vessel pointing out egress routes and safety equipment. The PowerPoint presentation is a good means to communicate important ship-specific safety procedures and features. It would be useful to incorporate photos in addition to the narrative and provide it to embarking science personnel as part of the pre-cruise planning process (in addition to holding the pre-underway brief and tour). The muster location, life raft deployment, proper use of tag lines, etc. would benefit from photos and a printed version of the PowerPoint could be provided in the Science staterooms.

### NAVIGATION DATA LINE DIAGRAMS

The electrical one-line diagram displaying normal and emergency power sources of bridge electronics is posted on a chart table for easy reference. In addition, there is a gyro configuration diagram and GPS distribution diagram displaying the navigational data distribution.



### HAWSEPIPE WASHDOWN

The hawspipes are fitted with nozzles supplied from the fire main to automatically washdown the chain as it is recovered.



## HYDRAULIC HOSE TAGS



It is difficult to keep track of the age of hydraulic hoses and the machinery history maintenance log can be a significant benefit. To aid in keeping track tags can be attached to hydraulic hoses to identify the installation (or replacement) date.

Per the USCG Naval Engineering Manual, the tag should provide the serial number of the hose for cross reference in a Hose Log. Installation shall be done in a manner that will not cause damage to the hose or joint. The following information should be provided on the tag and/or log:

- Hose serial number
- Hydrostatic Test Pressure and Test Date
- Service Life Date (Replacement Date)

Hoses should normally be scheduled for replacement at intervals not to exceed 8 years. They should be hydrostatically tested prior to the assembly being installed. This test is of the

complete hose assembly, including attached fittings. 46 CFR Subpart 56.97-5 requires a test pressure of twice the rated working pressure of the hose. The test pressure shall be held for approximately 5 minutes. Hoses should also comply with SAE J 1942, Hose and Hose Assemblies for Marine Applications.