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PROJECT MEMORANDUM #7

Alaska Region Research Vessel

Phase 01/Preliminary Design

From: Dirk Kristensen
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File No.: 01084.01
To: Committee

Preliminary Design Arrangement Modifications

The attached PDF files (3) show the incorporation of the majority of modifications suggested at the June Committee meeting in Washington D.C. The modifications are described below, starting at the 03 Deck and proceeding down to the 1st Platform:

03 Deck

The previously allocated aviation/stores in the starboard side of the superstructure are modified to an ordinary storeroom since the heli-deck has been deleted. Presumably the open deck area aft of the superstructure would be useful for incubators and hence the storeroom could be used in conjunction with this service.

The ice-capable workboat is shown moved to the starboard side at this level. This boat was on the port side of the 02 Deck. However, as discussed at the meeting, the SOLAS rescue boat needed to move away from the Baltic Room door opening and was therefore moved to port in the location previously occupied by the ice-capable workboat.

02 Deck

By lengthening the superstructure at this level by one frame space (24") forward, we have been able to arrange the entire crew complement (17 berths) at this level.

As discussed above, the SOLAS Rescue boat is now moved to the port side of this deck. The additional RIB workboat called for in the SMR (when carried) could be positioned on a cradle inboard of the rescue boat or on top of a van on the main deck. Both locations could be reached by the deck cranes.

01 Deck (Focsle)

The reduction in size of the science staterooms (to 86 ft² each) has facilitated placing the entire science complement on this deck and being able to move the galley/mess to this deck as well. This location for the galley/mess is an improvement in terms of motion and noise over the previous location on the forward part of the main deck. Note the attached PDF file that compares the new stateroom size with other vessels in the fleet. The new staterooms are smaller than those on the *Thompson/Revelle/Atlantis* yet somewhat larger than those on the *Wecoma* and *Palmer*.

Main Deck

The repositioning of the galley/mess to the 01 deck frees up a considerable amount of space on the main deck. We have moved the science office, electronics shop and the laundry/linen room to the main deck forward. These spaces were previously located below on the 1st platform.

The incinerator space that had been located on the main deck, port side aft, has been relocated to the 01 deck just aft of the galley and adjacent the casing – a more convenient location. This space can now be utilized for CO₂ storage.

Even with the addition of the science office, electronics shop and laundry/linen room there is space remaining. You will see on the deck plan that we have allocated some of this to a technician's storeroom.

1st Platform

The spaces moved from this deck to the main deck as described above have freed up space at the 1st platform level. We have taken advantage of this additional space by moving the engineer's workshop (now larger) forward to port and providing an engineer's storeroom to starboard. The spaces aft of the machinery space to port formerly occupied by the engineer's shop have been redesignated as a boson's shop with boson's storeroom immediately adjacent (aft). The boson's shop is now directly below the boson's locker on the main deck and has direct access via the lift.

Miscellaneous Items

- A possible location for a drilling moon pool (48" x 48") is shown on the main deck centered at frame 65 to starboard. It is shown immediately outboard of the aft transducer well and could potentially be accessed through the top of the hangar (at the 02 deck). This location seems as close to the center of vessel motion as is practical.
- The through-hull launching tube for the XBT's has not been incorporated as yet. We are awaiting optional arrangement of the motor room for Z or L-drive configurations.