



PROJECT MEMORANDUM #03

Alaska Regional Research Vessel

Concept Design Phase

From: Dirk Kristensen
Date: 15 January 2001
File No.: 00100
To: Bob Elsner, File

Subject: Mission Profile

In response to our PM #02 regarding the mission profiles for the vessel, we have been given the following direction from Bob Elsner and the Design Committee:

- The mission endurance of 60 days may be viewed as being somewhat flexible. Actual missions are likely to be 45-50 days but UAF would like as much “cushion” as possible.
- We are to investigate refueling possibilities in Northern Alaska.
- Our goal is to keep the vessel’s principal dimensions within the constraints discussed at the kick-off meeting, e.g., LOA no greater than 210’-215’.
- We are to maximize hull strength within the dimensional and endurance constraints. Although the vessel is to be classed ABS A1, further strengthening of the hull may be desirable.
- We are to discuss with Arno Keinonen the degree of ice transiting that can be reasonably undertaken within the dimension constraints.
- The vessel will not be designed to follow the USCGC *Healy*.