

APPENDIX VII

R/V for University of Connecticut Marine Science's Technology Center

- **SPECIFICS:**
 - Length: Overall - 76.6'
 - Length: DLWL - 70.0'
 - Beam: 26'
 - Draft: 8'
 - Displacement: 180.86 tons
- **PROPULSION:**
 - Main Engine: 840 BP V16-92TA DDEC G.M. w/2.91:1 Twin Disc Reverse Gear
 - Cruising Speed- 11 knots
 - Range: 2000 mi. @ 9 Knts
- **SHIPS POWER:**
 - (2) two 85 Kw 230 Volt. 3 Ph generators driven by GM6-71 engines
- **CAPACITIES & ACCOMMODATIONS:**
 - Fuel: 5,500 gal
 - Water: 2,490 gal.
 - Crew: 2
 - Sci. Party: 9-10
- **POSITIONING:**
 - Bow Thruster: Schottel SPJ22 driven by a GM-4-71 DDEC engine.
 - The propeller will be nozzled and work in conjunction with three rudders.
 - A well will be built into stern to accommodate a second Schottel thruster at a future date.
- **WEIGHT ALLOWANCES:**
 - Semi-permanent laboratory equipment - 1 ton
 - Mission-specific equipment, such as extra winches, lab vans, submersible vehicles, etc. - 5 tons ,
- **SPACE:**
 - Working Deck: 712 sq.ft.
 - Shelter Deck 75 sq. ft.
 - A 20' van can be carried on the port side
 - of the working deck
 - Wet Lab: 295 sq. ft
 - Dry Lab: 180 sq. ft
- **WINCHES:**
 1. Heavy Duty Winch: capacity of 1,125' of 5/8" wire w/full drum line pull of 10,000 lbs.
 2. Oceanographic Winch: removable drum winch w/1,100 lb. full drum line pull, and level wind.
 3. Two (2) Trawling Winches: capacity of 430' of 3/8" w/full drum line pull of 3,600 lb.
 4. Anchor Windlas & Capstan on forward deck.
 5. Articulated Crane amid ships w/ a 5 ton lift 5' outboard on the beam.
 6. 5 ton capacity capstan on aft quarter, starboard side.
 7. Port davit winch amid-ship

To meet the operational criteria of a 2 man crew, several winches and the A frame can be operated from an aft facing helm station in the pilot house. With the exception of the trawling winches, there are

redundant controls at each winch operating station. The articulated crane, heavy duty winch, and the oceanographic winch will employ umbilical controls for the winch operator.