

APPENDIX XVIII

R/V NEW HORIZON MID- LIFE REFIT DEC 1995 - APR 1996

OBJECTIVES

- Resolution of long term stability restrictions,
- Replacement and overhaul of obsolete or deteriorated equipment, machinery and systems necessary to ensure reliable operations,
- Upgrades of science equipment and support systems to allow conduct of increasingly complex missions,
- Habitability enhancements.

NEW HORIZON MID-LIFE REFIT PROJECTS TO ENSURE CONTINUED RELIABLE OPERATIONS

ITEM DESCRIPTION

Stability Improvement

- Hull Tankage Modifications
 - Fuel and Ballast Tanks
 - Potable Water
 - Piping Systems
- Replace Concrete Ballast

Correct Admeasurement

- Deckhouse Modifications
- Add Deep Frames Fr 23-52

Piping Systems Modifications

- Replace Saltwater Suction Header
- Isolate Bilge and Ballast System

Replace Machinery and Equipment

- Bow Thruster
- Nr. 2 Ship's Service Generator
- Autopilot
- Winch Readouts
- Deck Equipment Hydraulic System
- Main Reefer Units
- Science Reefer Units
- Fathometer
- VHF Transceivers v
- PDR
- Lab Ventilated Workstations (1/2)
- Portable Fire Pump

Install New Mach. and Equipment

- Marine Sanitation Device
- UPS clean power
- HAZMAT Locker
- NAVTEX

Machinery Overhauls

- Nautilus Crane
- Anchor Windlass
- Forward Hydraulic W/T door
- NR. 1 & 2 A/C Units

Pitch Controls

- Replace Improperly Routed
- Piping and Oversized Actuators

NEW HORIZON MID-LIFE REFIT PROJECTS TO PROVIDE SCIENCE CAPABILITY UPGRADE

DESCRIPTION

- Install Scientific Information System /
- Install Science Closed Circuit TV
- Replace Lab Benches /
- Modify Overheads & Scientific Cableways
- Install Deck Tiedowns
- Scientific Cableway to Upper Lab
- Construct Storage Van
- Complete 01 Level Tiedown Pattern /
- Install Tiedowns In Science Freezer
- Traction Winch
- Deck Air System
- Install Deck Lighting
- Install Convertible Stateroom
- Install GMDSS

NEW HORIZON MID-LIFE REFIT PROJECTS TO MEET FUTURE SCIENCE NEEDS / DESIRABLE SHIP UPGRADES

ITEM DESCRIPTION

Habitability

- Upgrade Two Person Science Rooms
- Replace & Relocate SR Chillers
- Replace PVC Chiller Piping with Cu
- Improve SR Furnishings
- Upgrade SR Entertainment Systems
- Replace SR & Lounge Carpeting
- Replace Deteriorated Paneling

Galley

- Clean and Overhaul Exhaust System

HVAC

- Modify A Deck, Port Side Vent System
- Provide Hot Water to Main Ship's Supply Heat Exchanger

Water System

- Install Hot Water Recirculation System

Windows

- Remove and Restore 02 Level Windows

NEW HORIZON OVERHAUL ITEMS

DESCRIPTION

- General Shipyard Services
- Sandblast and paint hull and sides
- Sandblast and paint ballast tanks
- Inspect/service sea valves
- Pull, inspect and repair tail shafts
- Pull rudders, replace bearings
- Replace zincs as required
- Conduct audio gauging of hull
- ABS Surveys
- Service tank vents and check valves
- Service bilge, tank and void foot valves
- Gas free bilges for hot work
- Empty and gas free fuel tanks
- Clean main switchboard
- Overhaul main engine gearboxes
- Clean and hydro ships' svc air flasks
- Repair stringers in sewage holding tank
- Overhaul engine room supply fans
- Calibrate switchboard meters
- Replace hydraulic hoses and fittings
- Repair control panels in Aft Control station
- Provide guards

[Return to Minutes](#)