



Emergency Towage Vessel Pacific Responder

Pacific Responder is an Anchor Handling Tug Supply (AHTS) vessel modified to fulfil the role of AMSA's dedicated emergency towage vessel (ETV). This is the only ETV of its type in Australia and operates in the particularly sensitive sea areas of the northern Great Barrier Reef and Torres Strait. The vessel has its home port in Cairns but spends the majority of its time patrolling at sea, available for emergency towage tasking by AMSA should a maritime casualty occur. It is particularly suited to emergency towage with a bollard pull of 82 tonnes.

Pacific Responder is also equipped to respond to other maritime incidents such as search and rescue or limiting

the effects of ship-sourced pollution of the sea and carries oil pollution response equipment.

While patrolling in its areas of responsibility the ETV will also be engaged for about 100 days each year in maintaining AMSA's aids to navigation network.

ETV services are provided to AMSA by the Brisbane firm Australian Maritime Systems Limited in conjunction with Swire Pacific Offshore. The vessel is Australian Flagged and has an Australian crew.



SPECIFICATIONS

BUILT & FLAG

Indonesia, July 2006, Australian

CALL SIGN

VHLS

TYPE OF VESSEL

Anchor Handling Tug Supply (AHTS) vessel

DIMENSIONS

Length Overall: 64.30m
 Length BP: 57.25m
 Breadth, moulded: 15.0m
 Design draft: 5.1m
 Net Registered Tonnage: 621
 Gross Tonnage: 1811

MACHINERY

Main Engines: 2 x 3550 (2610 kW) = 7,100 BHP (5220 kW) Bergen C25:33L9P
 Propulsion: 2 x CPP Propellers in Kort nozzles
 2 x Ulstein high lift independent rudders
 Bow Thrusters: 2 x 670 BHP (500 kW) developing 8.05 tonnes
 Stern Thruster: 1 x 670 BHP (500 kW) developing 8.05 tonnes

PERFORMANCE

Fuel Consumption: **Max Speed** 15.5 kts approximate consumption 24 mt/day
Cruising Speed 12 kts approx consumption 12 mt/day @ 3.5m draft
In port usage 1 mt/day
 Speed: @ 100% MCR: 14.0 kts
 @ 85% MCR: 12.0 kts

TOWING AND ANCHOR HANDLING

Bollard Pull: 82 metric tonnes, continuous
 Winch: 1 x Brattvaag SL150W-2T low pressure hydraulic, with tension and line out meters
 Load Capacity: Towing A/H drum 1st layer 150 tonnes
 Brake Capacity: 250 tonnes on towing drum
 Gypsy: 1 x cable lifter for 3" (76mm) rig chain
 Spare Tow Wire Reel: 1 x hydraulic Brattvaag 1300m x 64mm capacity

EXTERNAL FIRE FIGHTING

Capacity: 2 x 1200 cubic meters /hr = 2400 cubic meters /hr
 Monitors: 2 x Jet/Foam/Spray on wheelhouse roof remotely operated from wheelhouse
 Throw Length & height: 120m & 50m

CAPACITIES

Clear Deck Area: 29.5m x 10.7m = 316 Square metres
 Deck Cargo: 900 tonnes
 Deck Loading: 5.0 tonnes/Square Metre
 Deadweight: Max 2204 tonnes @ 5.78m draught
 DWT (Design): 1520 tonnes est. @ 5.1m draught
 Ballast / Drillwater: 487 cubic metres
 Potable Water: 631 cubic metres
 Fuel: 550 cubic meters (+378 cubic meters additional with 6 x Mud Tanks)
 Liquid Mud: 378.6 cubic meters (s.g. 2.5) (6 tanks)
 Dry Bulk Cargo Tanks: 187 cubic meters (4 tanks)

ELECTRONICS

Main Radar: Furuno Model FAR-2137S 21" Colour LCD, S-Band ARPA
 DGPS: Tokimec TG-8000
 Auxiliary radar: Furuno Model FAR-2117S 21" Colour LCD, X-Band ARPA
 Auto Pilot: Tokimec PR 6000
 Gyro Compass: Tokimec TG-8000
 Echo Sounder: SAM Echograph 9205
 Speed Log: Furuno Model DS-80 Doppler
 Communications: Global Maritime Distress and Safety System (GMDSS): Area A3, 1 x SSB, 2 x VHF, 2 x Inmarsat C, 3 x VHF (portable), 2 x SART, 1 x EPIRB, 1 x Navtex Watch Receiver: 2187.5kHz and DSC Sailor
 VHF: Aviation and marine band

DYNAMIC POSITIONING

Dynamic Positioning: Alstom / Cegelec DP 1. Two Interfaced ADP 21 consoles. Twin gyros, twin wind anemometers
 Reference Systems: USBL HPR / DGPS
 Joystick: Poscon – Ulstein, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

ANTI-POLLUTION

Dispersant Tank: 17.3 Cubic Meters
 Spray Booms: 2 x 6m
 Suitable lifting equipment and devices for all ship & Aids to Navigation work: TTS Marine crane with fixed boom (SWL 10 tonne @ 10m)
 Maintenance workboat: Alucraft 9m x 3.1m diesel powered

ACCOMMODATION

Officers and Crew: 4 x 1 berths 10 x 2 berths 2 x 4 berths
 Total: 32 berths