MK VI Patrol Boat (MK VI PB) and Multi Mission Reconfigurable Capabilities

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USSOCOM Established

BRAC

Acquisition Reform

USS Cole Bombing

NECC Established

Operation Iraqi Freedom

1985

1995

2005

2015

1990s:

PC-1 Class

MK V SOC

1995:

RIBs

 社

2001:

FP-L (34’ PB)

2006-2008:

RAB

RPB

RAB

Today:

CCB

MK VI PB

PBs ‘40s –’70s
MK VI PB Mission & CONOPS

**Mission**
Provide capability to persistently patrol shallow littoral areas beyond sheltered harbors and bays for the purpose of force protection of friendly and coalition forces and critical infrastructure; Includes High Value Unit (HVU) Shipping Escort; Visit, Board, Search, and Seizure (VBSS) Operations; Theater Security Cooperation (TSC); and Security Force Assistance (SFA)

**CONOPS**
- Anti-Surface Warfare (ASUW) Fast Attack Craft (FAC) & Fast Inshore Attack Craft (FIAC)
- Maritime Infrastructure Protection (MIP)
- Mine Warfare (MIW) – with Unmanned Underwater Vehicle (UUV)
- Intelligence Surveillance and Reconnaissance (ISR)
- Afloat Staging Base (AFSB) and/or shore-based operations
- 24-hour un-refueled and un-supported operations
- Supports Unmanned Aerial Vehicle (UAV), Unmanned Surface Vehicle (USV), and Unmanned Underwater Vehicles (UUV) operations
MK VI PB Mission

High Value Unit (HVU) Shipping Escort

VBSS / VBSS Overwatch

Theater Security Cooperation (TSC)
Length x Beam........... 84.8' x 20.5'
Deadrise (Effective)..... 22° (18°)
Full Load Displacement 170,000 lbs (Payload 11,170 lbs)
Speed in 3ft seas,...... 35+ / 25+ kts (Max / Cruise)
125F air / 95F water
Fuel Capacity/ Range........... 4000+ gal / 600+ nm
Hull......................... Aluminum w/ballistic protection
Engines..................... MTU 16V2000 M94 (qty 2)
                       Installed HP 5200 HP total
Waterjets............... Hamilton HM651 (qty 2)
Marine Gear.............. ZF3060 Gear (2.037:1 ratio)
C4ISR/Nav............... Tactical VHF, HF, UHF; SATCOM;
                       EO/IR, DGPS: Blue Force Tracker; Unmanned Vehicle C2;
                       Integrated Marine Radar
Weapons.................... Stabilized Small Arms Mounts (qty 4);
                       Fwd/Aft MK 38 Mod 2 Mounts;
                       Fwd/Aft multiple machine gun foundations

**Design is Owned and Proprietary to SAFE Boats International**
Interior Profile

- Mn Deck Cabin (13 seats)
- Fly Bridge (2 seats)
- Pilot House (5 seats)
- Berthing (6 racks)
- Galley
- Fuel
- Engine & Waterjet Spaces

**Design is Owned and Proprietary to SAFE Boats International**
Multi Mission Reconfigurable Main Cabin

- Reconfigurable Seating Allows:
  - VBSS, EOD or SOC Team
  - Medical Evacuation/Triage

- Berthing / Detainee
- Command, Control, Communications, Computers, & Counter-intelligence (C5) Missions

Seats Retractable or Removable
Visit, Board, Search, and Seizure (VBSS) & VBSS Overwatch

VBSS Team Seating

Boarding via Person In Water Cut Out
Note: Performance Requirement Configuration with single MK 38 GWS.
MK VI PB Program Status Today

• Ten MK VI PBs under Contract with Safe Boats International, Tacoma, WA
• PB 1201 contractually accepted and undergoing developmental/operational testing
• PB 1202 just completed Pre-Delivery Inspections and Trials
• Fleet Delivery of PBs 1201 and 1202 later this CY (2015)