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NAVAL ARCHITECTURE AND MARITIME ENGINEERING CAPABILITY



Resources:

- Naval Architects and Marine Engineers
- Electrical Engineers
- Structural Engineers
- Designers (CAD and CATIA Operators)

Credentials:

- ISO 9001 Accreditation for Ship Design
- Full Platform Design and Integration Capability
- Through Life Support
- Extensive Experience with RAN Ship Classes
 - ANZAC Frigates, FFGs, LPAs, LCHs, AOR,
 - Hydrographic Ships, SMLs, PVs
- Practising in Multiple Classification Society Rules
 - LR, GL, DNV, ABS, BV, etc

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OUR SERVICES

Sinclair Knight Merz (SKM) is a leading, global engineering, sciences and project delivery firm known for its innovation and award-winning projects. We are a long established and independent professional consultancy, with more than 6,500 people in offices across New Zealand, Australia, Asia, Europe, the Middle East and South America.

We have a commitment to service and quality, with high standards of safety and business ethics, along with a leading edge approach to delivering a sustainable future.

- Concept, Preliminary and Detail Design
- Owner's Representative and Shipbuilding Supervision
- Offshore / Coastal Engineering
- Ship Production Support and Design
- Shipbuilding / Ship Repair Project Management (Construction Scheduling and Planning)
- Shipbuilding Procurement / Cost Estimating
- Build Strategy
- Risk Management
- Integrated Logistics Support (ILS)

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SHIP	PROJECT	Hull Form Design	Ship Hydrostatics & Hydrodynamics	Ship Structural Analysis	Ship Manoeuvring and Control / Sea Keeping	Mech Syst Design & Integration	Outfit Syst Design & Integration	Elec Syst Design & Integration	2D/3D Modelling	Ship Production Support	Integrated Logistics Support (ILS)	Feasibility Studies	Shipbuilding / Repair Project Management	Shipbuilding Procurement / Cost Estimate	Risk Management	Owners Representative / Supervision	Offshore / Coastal Shipbuilding	Build Strategy and Shipbuilding / Repair facilities Development
		COMMERCIAL VESSELS	Ex-HMAS Brisbane & HMAS Canberra – disposal of the ship as a dive site		●													
	Trim and Stability Calculations for Yakin CPP2 Oil & Gas Platform Floatover		●														●	
	Floating Production Storage and Offloading Platform Corrosion Analysis and Study																●	
	Cullen Bay (Darwin) Pontoon Design	●	●	●		●	●	●	●	●					●	●	●	
	Cape Lambert Tug Harbour Pontoon Design	●	●	●		●	●	●	●									
	Hovercraft Design	●	●	●	●	●	●	●	●							●		
	Development of Global Finite Element Model for 86m Wave Piercing Catamaran			●														
	Putrajaya Lake Vessel for Malaysian Government	●	●	●	●				●									
	Indian Navy Karwar Naval Base Extension ("Project Seabird")																	●
LANDING CRAFT HEAVY CLASS	Sewage Treatment Plant Replacement					●	●	●			●	●			●			
	Hydraulic System Upgrade					●	●	●	●									
	Main Engine Replacement					●	●	●	●		●	●	●	●				
	Engine Room Supply Ventilation Upgrade											●						
	Diesel Generator Replacement										●	●						
	Inventory of Hazardous Materials (Green Passport)					●	●					●						
	LCH Compatibility with M1A1 Tank & M88 Recovery Vehicle		●	●	●	●	●		●			●						
	Modification to Firemain System					●	●	●	●		●	●						
	Safe Stowage of Unleaded Petrol (ULP)											●						
HMAS TOBRUK	Troop Accommodation and HVAC Upgrade			●		●	●	●	●			●	●	●				
	Installation of Seaboat Handling System		●	●		●	●	●	●	●		●	●	●				
	Improve Damage Stability		●															
HMAS SUCCESS	HP Air Compressor Replacement					●	●	●				●						
	Medical Store Ventilation Upgrade					●	●	●	●			●						
	ABR5559 (Damage Control Book) Update									●								
LANDING PLATFORM AMPHIBIOUS CLASS	JP2008 MILSATCOM Marine Integration					●	●	●	●		●	●						
	Design of HVAC System Upgrades					●	●	●	●		●	●						
	Anchor Chain Handling Problem Rectification										●	●						
	Reverse Osmosis Plant Enhancement					●	●	●	●		●	●						
HMAS SIRIUS	Closed-Circuit Television (CCTV) System Modification						●	●	●			●						
	Local Area Network (LAN) Fibre Connectors Replacement							●	●			●						
	Main Engine Final Fuel Filter Replacement					●			●			●						
	Vacuum Sewage Isolation Valves Installation					●						●						
	Failure of Replenishment-At-Sea (RAS) Rig						●					●						
	Conversion of Cargo Tanks to Carry Heavy Fuel Oil					●	●					●						
RAN HYDROGRAPHIC SHIPS	Navigational Display System (NDS) Installation						●	●	●		●	●						
	Sea Chest Modifications										●	●						
AIR WARFARE DESTROYER (AWD) PROJECT	Gibbs & Cox Proposed AWD Design, Vulnerability Report			●		●	●	●				●						
	Gibbs & Cox Proposed AWD Design, Computerised Fluid Dynamics Analysis	●	●		●							●						
	Navantia Proposed F100 AWD Design, Build Strategy Study											●						
	RAN Air Warfare Destroyer, Phase 2 & 3 Support					●	●	●		●	●	●	●	●				●
	Assessment of Potential AWD Construction Sites																	●
ANZAC CLASS	Air Weapons Magazine Upgrade			●		●	●	●		●	●	●	●					
	Gymnasium Fitout					●	●	●		●	●							
	Seasprite Ground Support Equipment Upgrade					●	●	●		●	●							
	3D Modelling of Machinery Spaces								●									
FRIGATES (FFG) CLASS	Typhoon Remotely Operated Gun System Installation			●		●	●	●	●	●	●	●						
	Communication Equipment Integration			●		●	●	●				●						
	MU90 Torpedo Stowage			●		●	●	●				●						
	Various Requirement Analysis for FFG Engineering Review Board					●	●	●							●			
HMAS WESTRALIA	Mooring Winch Hydraulic Pack Unit Upgrade					●	●	●										
	Cargo System Filter/Coalescer Installation					●												