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RINA/IMarEST Technical Presentation

Remediation of the LHD Propulsion Issues

Presenter		Philip Baldwin Independent Contractor to Defence, Maritime Sustainment Division
Date		Wednesday 1 March 2023
Time		6:30 pm AEST
Venue	**in person**	Henry Carmichael Theatre Level 1, Sydney Mechanics School of Arts 280 Pitt St, Sydney
	online	URL and password will be advised prior to the presentation
		Registration for the presentation is required (see below)

The Royal Australian Navy Landing Helicopter Dock (LHD) platforms entered service in 2014 and 2015 and were beset by problems with the propulsion system. These included excessive structural vibration throughout the vessels, technical issues within the propulsion pods and erosive cavitation of the propeller blades. The problems came to a head in early 2017 when the operational availability of the platforms was compromised.

A dedicated team was established to investigate the problems and develop and implement a solution. The team worked with the key industry partners, namely the prime contractor, ship designer and propulsion system OEM, while engaging Commonwealth and industry experts to undertake specialist measurements and analysis.

This presentation covers all aspects of the project from the extensive investigation of the issues, through the design and manufacture of new propellers and, finally, sea trials to confirm that the solution was acceptable and met the design specifications.

Registration Registration for this presentation may be completed at

https://forms.gle/DEnJNBvx6kWze5Y16

Registrations close at 6:00 pm on Tuesday 28 February. Registration for in-person attendance is required to gauge numbers for catering. Those registered for online participation will be emailed the Zoom meeting ID and passcode on the evening of 28 February.

Register and put this date in your diary now, and we look forward to you joining the presentation.