



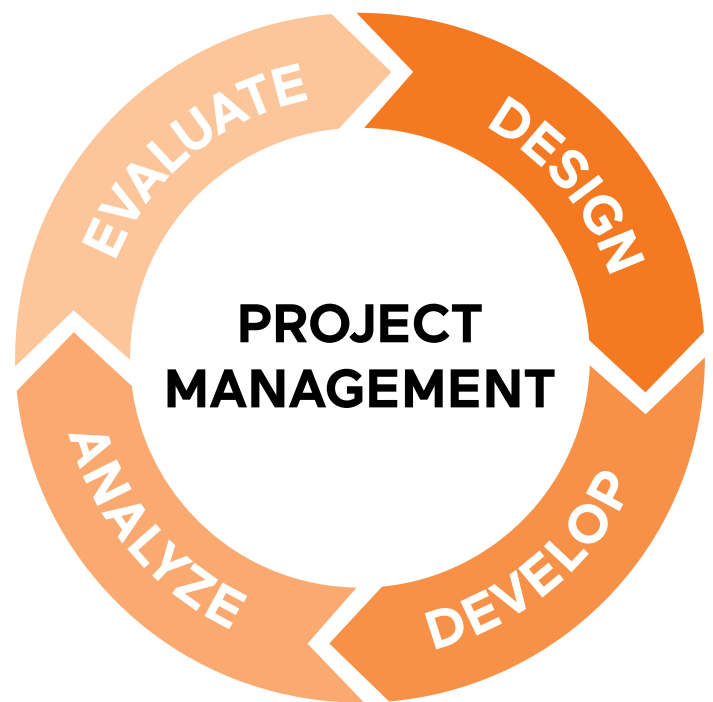
HAL VISTA CLASS NAVCOM & BRIDGE RETROFIT CASE

HOLLAND AMERICA LINE NAVCOM AND BRIDGE RETROFIT

Full project management for a turnkey solution

The scope of the work package meant full project management; design and systems integration, engineering, procurement, installation, testing and training. Using our expertise in systems integration we worked with multiple vendors to meet the specs far more closely than a vendor tied to a single range of products.

Both retrofits, for MS Westerdam and MS Noordam, were completed successfully within short timeframes and with no outstanding defects.



- System design and integration
- Console design and fabrication
- Interfacing to existing equipment
- Pre installation checks
- Factory acceptance tests
- Site survey's
- Installation and commissioning
- Human factor related improvements
- Brand independent, customized solutions
- Full Turnkey solution
- Procurement and vendor management
- Full sub-contract management
- Scheduling and planning
- Coordination and task tracking
- Full engineering including autocad
- Full project management
- Crew training
- Sea trials

Full Navigation Suite of equipment

- New console tops including wing consoles to accommodate new Furuno radar display's (two FCR-28x9 X-band and two FAR-2837 S band)
- FMD 3300 ECDIS (Main and Backup)
- FAP3000 Furuno Autopilot with two controlling heads track control functionality
- EMRI AZIPOD propulsion interface with provision for fuel optimization
- Satellite Speed Log
- Two AIS and two GP150D GPS systems
- The port and starboard bridge wings are equipped with slave units and monitors so that the Radars, ECDIS and conning can all be accessed from those station

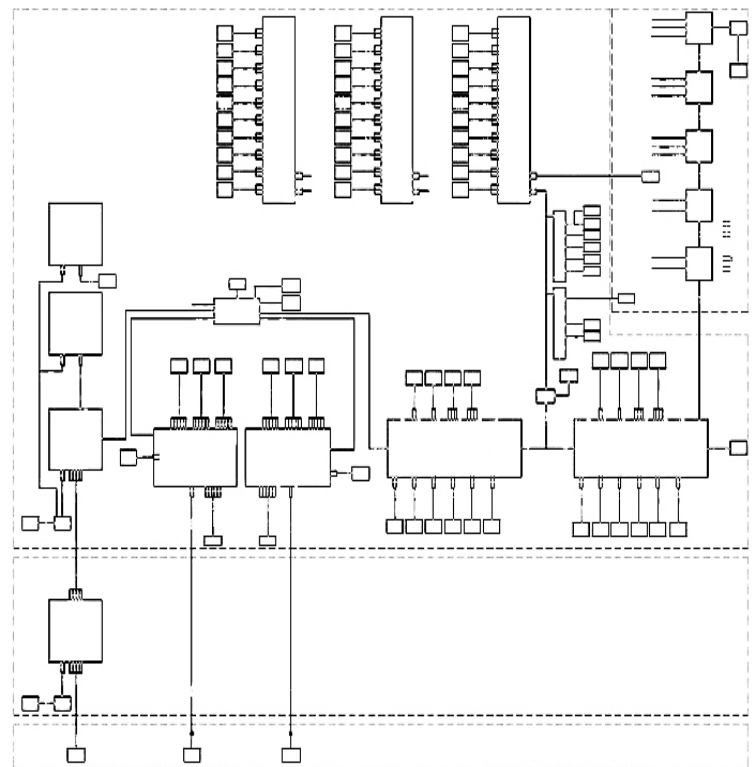


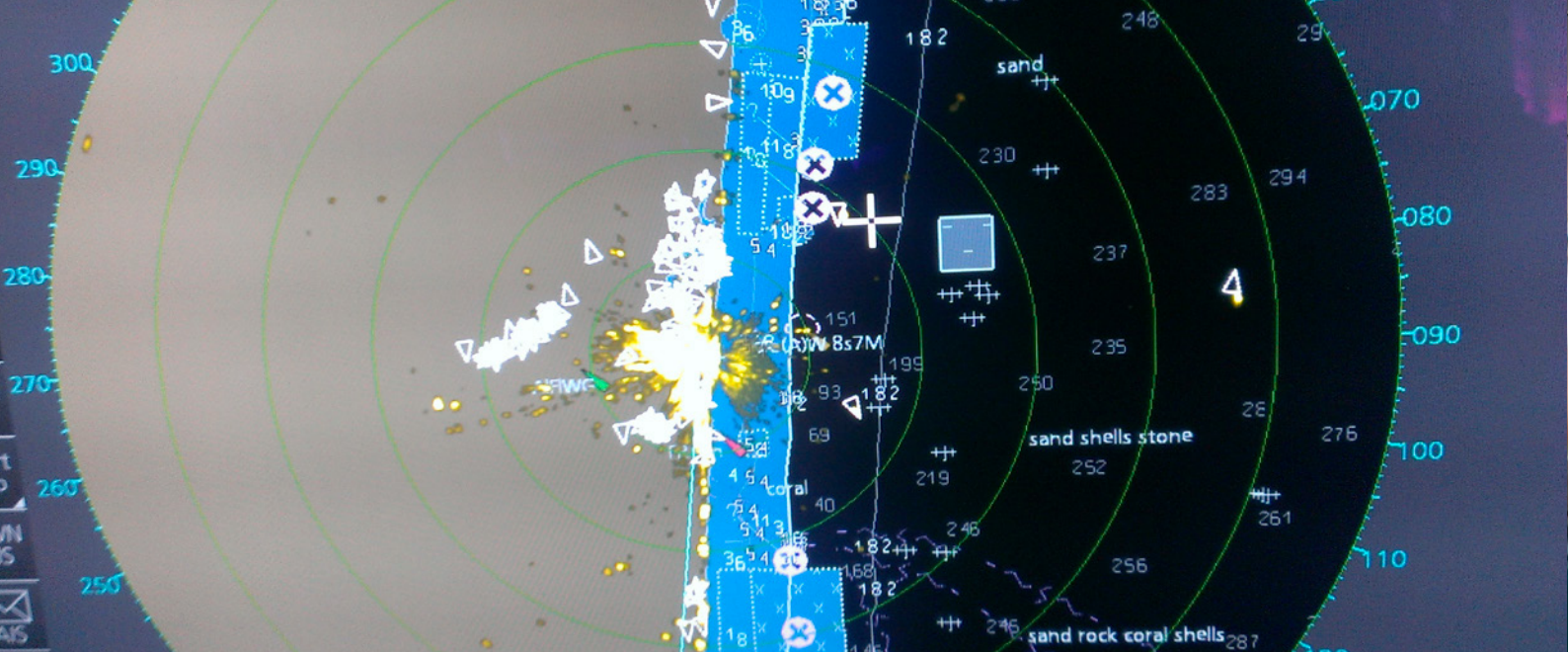
The customer says:

“We have had the pleasure of working closely with Radio Holland for many years, during which time we have built considerable confidence in their ability to undertake a highly customised bridge retrofit rather than a like for like upgrade.

We were impressed when they responded to our brief with an innovative ‘best of breed’ solution that matched the existing systems and provided additional functionality. Using their outstanding in-house systems-integration, engineering, project management and sub-contractor management skills, Radio Holland successfully procured, installed and commissioned the new bridge systems within the timescales specified by Holland America Line.”

Steve Nevey - Technical Superintendent of Nautical Operations Holland America Line





"The success of the bridge retrofits for MS Westerdam and MS Noordam demonstrate the added value that Radio Holland can deliver. By working closely with the client, Radio Holland was able to identify and meet specific requirements delivering additional functionality and flexibility. With our worldwide service network and remote monitoring facilities, we focus on helping ship owners achieve uninterrupted, safe operations."

Fergus Campbell - Managing Director Radio Holland USA



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