

DATE: 2019-04-01

PROJECT TITLE: Joint Support Ship (JSS)

PROJECT OBJECTIVE: To deliver two Joint Support Ships to replace the Canadian Armed Forces' Auxiliary Oiler Replenishment vessels that have reached the end of their service. The capabilities required of the Joint Support Ships are crucial to the Royal Canadian Navy. These new Protector-class ships will enable a Naval Task Group to remain at sea for extended periods of time. These vessels will provide core replenishment capabilities, plus added capacity for limited sealift and limited support to operations ashore.

PROJECT PHASE: Definition

PROCUREMENT STRATEGY

Furnishing the selected design to the National Shipbuilding Strategy designated shipyard (Seaspan's Vancouver Shipyards Co. Ltd.). Canada has selected the military-off-the-shelf BONN (currently in service with the Germany Navy) as the basis for the design.

ACHIEVEMENTS

- 2010-06: Based on a revised project approval, 2 design options were developed for comparison.
- 2013-06: Employing a rigorous interdepartmental selection process including independent 3rd party involvement, the BONN, a German Vessel was selected as the design baseline.
- 2014-08: Seaspan's Vancouver Shipyard Company Limited was awarded a contract to conduct design reviews, culminating in July 2015 with confirmation that the German ship could be built in the shipyard's production facilities.
- 2014-09: Canada acquired necessary design information under license from ThyssenKrupp Marine Systems Canada.
- 2015-12: The shipyard was awarded a contract to select key equipment needed to enable construction to start on the planned date.
- 2016-02: The shipyard commenced design work to incorporate essential modifications to meet Canada's requirements and to allow construction in the Vancouver facility.
- 2016-12: Preliminary Design Review (PDR) completed as part of Initial Design review Contract. PDR is the first of three intended design reviews before JSS construction.
- 2016-12: Design and Production Engineering (D&PE) Contract was awarded to the shipyard and work against the first task, Functional Design (FD), is underway.
- 2017-05: Request for Information was published to industry to acquire raft/pontoon solution to transport material from the Joint Support Ship at sea to the shore.
- 2018-06: The shipyard was awarded an Early Block Build Contract and began construction of JSS.
- 2018-07: The Design and Production Engineering (D&PE) Contract was amended to authorize the full scope of design work that supports the full production and construction of the JSS.
- 2019-02: A decision was rendered to sequence construction of the first JSS ahead of the Offshore Oceanographic Science Vessel (OOSV) at Seaspan Shipyards.

INDUSTRY ENGAGEMENT ACTIVITIES

The National Shipbuilding Strategy's (NSS) selection of the two shipyards to rebuild the fleets of the Royal Canadian Navy and the Canadian Coast Guard were applied in a comprehensive and innovative way by following principles of extensive industry consultations, along with the establishment of a strong governance structure and the involvement of independent third parties.

Vancouver Shipyard Co. Ltd., as the selected shipyard for the non-combat package of the National Shipbuilding Strategy, is responsible for engagements with industry. Through these engagements, the shipyard will establish contracts for the sourcing of services, materials, equipment and systems for use in the design and construction of the Joint Support Ships.



SOCIO-ECONOMIC BENEFITS

The Industrial and Regional Benefits (IRB) Policy was applied to the Joint Support Ship: Initial Design Review; Long Lead Items; Design Production and Engineering; and Construction contracts. The total IRB obligation for the JSS is currently \$264M, \$2M completed to date and \$183M in progress. Under JSS Vancouver Shipyards Co. has \$1.3 million in NSS Value Proposition obligations, with total existing commitments valued at \$4.7 million.

*Values are updated annually. Last update: July 2018.

KEY MILESTONES

Project Milestone	Approved	Re-baseline/Actual	Notes/Comments
Revised Project Approval (Definition) 1 - Design selection		2010-06-10	Milestone dates for Project Approval Implementation and Build Contract award are being re-assessed by Canada and the shipyard.
Revised Project Approval (Definition) 2 - Initial Design Review contract		2014-04-03	
Revised Project Approval (Definition) 3 - Long Lead Item contract		2014-12-04	
Revised Project Approval (Definition) 4 - Contract Design Completion task		2015-06-11	Delivery of the second JSS is currently under review until the NSS program schedule revisions are confirmed.
Revised Project Approval (Definition) 5 - Design and Production Engineering contract		2016-08-22	
Revised Project Approval (Definition) 6 - New Long Lead Item authorities		2018-04-26	
Project Approval (Pre-Implementation) - Early Block Build authorities		2018-04-26	
Project Approval (Implementation)	2019	Spring 2020	
Contract Award (Build - full production)	2019	Spring 2020	
First Delivery	2023	2023	
Initial Operational Capability	2023	2024	
Full Operational Capability	2024	2024 (under review)	

POINTS TO NOTE

ISSUE/RISK ASSESSMENT

Area	Previous	Current	Issue/Risk Summary
Scope			
Schedule vs Re-baseline			Schedule: A revised National Shipbuilding Strategy (NSS) Integrated Schedule is being reviewed by Canada along with the project schedule. The project schedule remains highly dependent upon progress on the NSS program, with the delivery of JSS 2 now dependent on the OOSV project revisions and shipyard schedule mitigations strategies.
Budget (Definition)			
Budget (Implementation)			
Human Resources			
Other	Budget: Efforts in 2018 have culminated in a revised total project cost comprised of all elements of bringing ships into service including: design and construction, spares, training, manuals, ammunition, infrastructure and project management costs. This total cost estimate for the Joint Support Ship project remains under review as the design effort finalizes and the construction contract is being negotiated with the shipyard.

FINANCIALS

	VALUE (BY MILLIONS)
Acquisition (including Project Management Costs, Infrastructure, Contracts and Contingency)	\$ 3,400.0
Major In-Service Support Contract (over years)	
Estimated Life Expectancy (30 years of service per vessel)	

TIMELINE

