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# M.V. Tachek Life Extension Project

Commissioner Update  
October 2012

**BCFerries**

- The Tachek is scheduled to provide primary service on Route 24
- The current Route 24 vessel, the Tenaka, will be retired in 2015 without replacement
- Tachek also provides relief service on Routes 18, 22, and 25
- Built in 1969 by Allied Shipbuilding in North Vancouver
- Sister vessel to the Quadra Queen II, which completed a Life Extension project in 2011
- Vessel was previously scheduled to be retired in fiscal 2015
- Life Extension project will push its retirement date out to 2029

## **Budget**

- \$15.6M (including Interest During Construction)

## **Schedule**

- Tender: July – November 2012
- Contract Award: December 2012
- Construction: December 2012 – August 2013
- In Service: September 2013

- The scope for this project is similar to the Quadra Queen II Life Extension:
  - Removal of all asbestos-containing materials (ACM)
  - Install generators, switchboard and electrical distribution system
  - Install new shafting and propeller blades to support extended service life
  - Install new gear boxes, bow thruster, and bulbous bow
  - Apply Intersleek 900, a new hull coating system that is guaranteed to save fuel costs over the standard hull anti-foul coating system
  - Upgrade the passenger facilities, including a wheelchair accessible washroom on the main car deck
  - Move the crew lounge from under the car deck to a new structure on Deck 4 (accommodation deck). This space will be converted along with the below deck stores room to a new Engineering Control Room
  - Install a new modernized wheelhouse to enhance safety and operational efficiency and address condition concerns
  - Upgrade the lifesaving arrangements, structural fire protection, and fire fighting arrangements to address Minimum Safe Manning requirements
- Replace main engines – not included in scope of QQII LE project

- Total incremental cost for new engines is \$123,000
  - New engines, installation, IDC: \$623,000
  - Less: savings on overhaul of existing engines: \$500,000
- Estimated average annual fuel savings is \$116,000 over the remaining life of the asset, resulting in a discounted payback of 1.75 years
- Additional benefits:
  - Better integration into the control system and alarm and monitoring scheme
  - Ensure compliance with the latest air emissions requirements
  - Option to convert to liquid natural gas (LNG) in future

## Budget Risk

- Mitigation: Multiple shipyards and engine vendors to bid to ensure a competitive process
  - Budget allowance for steel replacement based on the QQII project to account for extensive wasted steel in the hull and void spaces

## Schedule Risk

- Mitigation: The Tenaka will provide relief while the Tachek is in refit and it could be available to provide continued relief throughout the fall of 2013 should a delay occur
  - Purchase long lead items during pre-implementation phase
  - The QQII LE project was delivered on schedule and lessons learned will help to reduce schedule and budget risk

## ACM and Hazardous Material Abatement Risk

- Mitigation: Separate the ACM removal portion from the main project and award to a company that specializes in this work
  - Vessel will be delivered to the shipyard after hazardous materials are removed