Alaska Department of Transportation & Public Facilities
Tustumena Replacement

Senate Transportation Committee

April 15, 2014

VESSEL SPECIFICATIONS
M/V TUSTUMENA REPLACEMENT

Specifications	Existing	Replacement
Length Overall	296’-0”	325’-0”
Beam (Main Deck)	59’-0”	68’-0”
Depth (Molded)	21’-9”	23’-0”
Draft (Full Load)	14’-4-1/2”	15’-0”
Passenger Capacity	174	250 (Berths for 108)
Staterooms (4 Berth)	8	10
Staterooms (2 Berth)	17	15
Roomettes (2 Berth)	-	17
Staterooms (ADA – 2 Berth)	1	2
Crew Capacity	38	42 (Estimate)

VESSEL SPECIFICATIONS
M/V TUSTUMENA REPLACEMENT

- **Specifications (cont.)** — **Existing** — **Replacement**
  - Vehicle Capacity (lane feet) — 720’ — 1,135’
  - Vehicle Quantity — 36 — 52
  - Van Quantity — 12 (20’) — 12 (40’)
  - Vehicle Loading Ability — Stern and Side (Port & Starboard)
  - Cruise Speed — 13.8 knots — 15 knots
  - Operation – Oceans, not on international voyage; Exposed Waters
  - Manning Level – Minimum Manning Regulatory Requirement – Manned Engine Room
  - ADA Compliant – Americans with Disabilities Act (ADA) with Passenger Elevator

Tustumena Replacement Additional Design Features

- No Bar; Cafeteria with horseshoe shaped galley
- Forward observation lounge above cabin deck
- Forward Starboard door for floating ramp terminals
- Offset casing with mezzanine deck to utilize non-van deck height
- Liquefied Natural Gas (LNG) Analysis continuing. Need to work with United States Coast Guard (USCG) regarding fuel tank issues

DELIVERABLES FOR FINAL DESIGN

- Reconnaissance Report - develop and refine the operating characteristics of the vessel. The Reconnaissance Report includes a rough cost estimate and recommendation to proceed with a particular vessel type.

- Environmental Analysis - prepare the required Federal Highway Administration (FHWA) environmental document based on the project scope as defined in the Reconnaissance Report.

- Design Study Report (DSR) - develop and refine various alternatives to accomplish the project. Each proposed solution will be analyzed to determine how well it satisfies the project purpose. The DSR will conclude with a recommendation to proceed with a particular vessel design under the preferred procurement method.

DELIVERABLES FOR FINAL DESIGN

- Plans, Specifications & Estimates (PS&E) – Major Components
  - Regulatory Research
  - General Arrangement and Profiles
  - Intact and Damage Stability
  - Structural Plans/Elevations
  - Structural Sections
  - Superstructure
  - Speed and Power Calculations
  - Major Equipment List
  - Weight Estimate
  - Cost Estimate

PROJECT MILESTONES

Tustumena Replacement Project 70062	AMHS Ketchikan Alaska
Awarded Consultant Professional Services Agreement (PSA) The Glosten and Associates Team, Seattle WA	November 2013
AMHS Terminal Sight Visits (Project Team and Southeast Region Terminal Design Section)	December 2013
Reconnaissance Report	February 2014
Public Participation (Homer, Kodiak, Dutch Harbor, etc.)	April-May 2014
Environmental Document	June 2014
Design Study Report	September 2014
Final Design Completion	June 2015






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