CBJ Downtown Cruise Ship Berths

Work Session with NWCCA in Seattle @ HAL Office
December 6, 2010 10:30 A.M.

Agenda

1. Introduction & Project Overview – John Stone, P.E., CBJ Port Director

2. Berth Configuration – Dick Somerville, P.E., PND Principal
   A. Review Concepts 16B -1, 2, 3 & 4 – selection of a preferred alternative w/ mods as req’d.
   B. Floating pontoon size: 50’x350’ or 50’x300’
   C. Mooring and breasting dolphin locations
   D. Bollards and cleats required on floating pontoons and existing timber wharf
   E. Transient and lightering float operations and locations
   F. Thrust dissipater
   G. Security gates
   H. Review two season construction scenario
   I. Navigational Issues: Ed Page

3. Wastewater Discharge to City Utility – Jim Dorn, P.E., CDI Principal
   A. Do you anticipate facilities to discharge wastewater from cruise ships at the new docks to be beneficial and used regularly by vessels berthed at the dock?
   B. If so, how would the vessels benefit? Will it allow easier compliance with Alaska Department Environmental Conservation discharge regulations? Will it allow vessels to spend more time in the inside waters?
   C. How many wastewater discharge events would you anticipate occurring at each dock per week?
   D. What volume of wastewater discharge would you anticipate during each discharge event?
   E. What concentration of BOD (biochemical oxygen demand) and TSS (total suspended solids) would you anticipate in the wastewater?
   F. Would you be able to control discharge wastewater with low BOD and TSS concentrations as opposed to discharging wastewater with higher concentrations of BOD and TSS?
   G. Do you have on-board pumps that would be capable of off loading wastewater?
   H. What is the anticipated flow rate and discharge pressure for those pumps?
   I. Juneau’s treatment plant can handle the increased volume of wastewater from cruise ships (the hydraulic load) but will have a difficult time handling high concentrations of BOD and TSS (the organic load) without constructing significant improvements to the wastewater treatment plant.

4. Electrical Power Service – Ben Haight, P.E., HAI Principal
   A. Does the cruise industry have the interest in using shore power?
   B. Energy & Power requirements: We have assembled a tabulation from AET&P illustrating the demand and consumption for various ships at South Franklin Dock.
   C. Physical Characteristics: Best locations for shore tie attachments. Discuss voltages, circuit protection, paralleling control, and cable configurations.
   4. Costs: What energy and power costs are affordable? This is a bit of an iterative process.