Pre-Design of Passenger Boarding Systems

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AAPA

Cruise Conference 2007 – Cayman Islands
American Association of Port Authorities
Pre-Design Process – Adding Value

- When do you need a Gangway (or two)?
- Does a Gangway affect the design of the facility?
- How much should you spend?
- What’s the best procurement method?

Gangways are integral to overall cruise port design, not merely equipment for subsequent Owner purchase.
When to invest in gangways...

- Generally, turnaround ports with more than 50 ship days
- Some Ports-of-Call with notoriously bad weather and a small terminal / first port of entry in country.
- Some Ports-of call with large tides
  - Alaska/BC, Maine/Atlantic Canada, N. Europe

- Homeports, in general. 2 gangways when 3,000 pax+
- When the cruise lines ask for one (or 2)
24-Foot Tides

Plan 2002
Port-of-Call Fixed Stairway
Does it Affect Design of Terminal

✓ One, two, or three level terminal?
  ✓ A good gangway can save Terminal area and $
✓ Types of vessels anticipated (possible to limit?)
✓ To Fantasy, or not to Fantasy?
✓ Purpose-built for Single Vessel? (Hint: NO)
✓ Relationship to Boarding Platform
✓ Multiple or Single access points?
  Fixed, Semi-fixed, or Fully Mobile
✓ If mobile: Tracks or Wheels?
✓ Prominent site seen from City?
Integrated Site

Existing Maritime Museum

New Terminal/Events Hall

New Marina

Veterans’ Memorial/Riverfront Park

(No on-site parking)
Terminal Exit “Gangway”

Moveable Check-In Counters
300-ft ADA Hinged ramp
Sitting at the Bar w/Port Authority @ Project Kick-Off… gotta napkin?
WORKING PIER
-CLEARANCE
15'
Fixed or pivot gangway
Fixed tower
Boarding bridge
Early versions (pre-mobile)
NARROW APRON "SWITCHBACK"
SINGLE SWITCH

- wide
- industrial
DOUBLE SWITCH
- compact
- architectural
Long Bridge / Small Gangway

...public waterfront access with ship access and security
Mobile, for flexibility

Lift

Hinged, adjustable ramp

Long run for ADA compliance

2-Part hybrid

Terminal

Large tides
Gangway at “T”

Fully adjustable and ADA-compliant bridge / part of gangway
CENTRAL TERMINAL

100 - 150 pax
DOUBLE DECKER
GANGWAY VEHICLES

THE FUTURE?
VERY HIGH CAPACITY BUS...
... BECOMES PAX BOARDING
$65,000

BASE MODEL: FIXED, OPEN

OPTIONS
- A/C, Glazing
- Automatic Adjust
- Mobile
- Remote Control
- Remote Diagnostic

 LOADED $203,000 MSRP
Procurement Method

- Separate Tender from Terminal GC
- May be bundled w/ Pax Bridge (same finishes)
- Same Project Budget / Funding (FF&E)
- Issue Tender Docs 14-16 mos. in advance
- Minimum 3 invited Bidders (2 mo bid period)
- Tender Docs must set Parameters – not limit creativity of Tenderer!
Summary of A/E’s Role to Add Value

- Gangway is part of Cruise Port Pre-Design
- Discuss options w/Port Developer & cruise lines
- Discuss operation with Building/Fire Officials
- Budget Appropriately
- Prepare Design-Build Bid Package
  - Parameters, Warranties, Training, Spare Parts…
- Help evaluate Proposals
- Help Coordinate installation
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