Vessel Operating Costs – Cruise Vessels

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DDNPCX

- **Mission:**
  - **ALL ECONOMIC PRODUCTION**
    - Accomplished with in-house staff and virtual team members
    - DDNPCX is ultimately responsible
  - Review Plans - Reviews and endorses
  - Peer Review (ATR, IEPR)
- Get the DDNPCX involved early
Vessel Operating Costs

- Developed by USACE Institute for Water Resources (IWR)
- Published in - Economic Guidance Memorandum (EGM) 15-04, Deep Draft Vessel Operating Costs – 28 September 2015
  - Expanded this FY to include cruise vessel classes
  - VOCs for cruise vessels were previously developed using the General Cargo class
Cruise Vessels - VOC Cost Components

- Cruise Ship Vessel Types
  - International
  - US

- General Vessel Specifications – used to determine which cost to use
  - Average Passenger Numbers (Capacity)
  - DWT
  - Vessel Dimensions
  - Immersion Rate
  - Bunkerage Consumption (At Sea vs. In Port)
  - Etc.
Cruise Vessels - VOCs

- Cost Components
  - Hull Asset Capital Costs (Fixed)
  - Operating Costs (Variable)
  - Intensity of Employment
  - Average Daily/Hourly Bunkerage Costs (Variable)
Cruise Vessels - VOCs

- Cost Components (continued)
  - Applied Bunkerage Cost(s) and Scrap/Breakage Value
    - Heavy Viscosity Oil Price (default)
    - Intermediate Fuel Oil Price
    - Marine Diesel Oil Price
    - Liquefied Natural Gas Price
    - Methanol Price
    - Scrap Price
Analysis

- Channel Modification
  - Harbor Deepening
    - Historically has not attracted new cruise traffic
    - Can result in less harbor congestion due to reduction in number of vessels interacting with the cruise fleet
      - Safety Zones/Critical Commodity
      - No Meeting (Passing/Overtaking)
Analysis

- Channel Modification
  - Widening
    - Reduces harbor congestion due to change in operations (passing/overtaking)
      - Combined Beam Width
    - Tug Assist? - Specific characteristics of cruise vessels
  - Anchorage/Turning Basins
    - Design Vessel???
Questions?