



Presented to: 14th Annual Machinery Marketing Conference

Captain Doyle Kitchin Program Manager 19 May 1999



Agenda



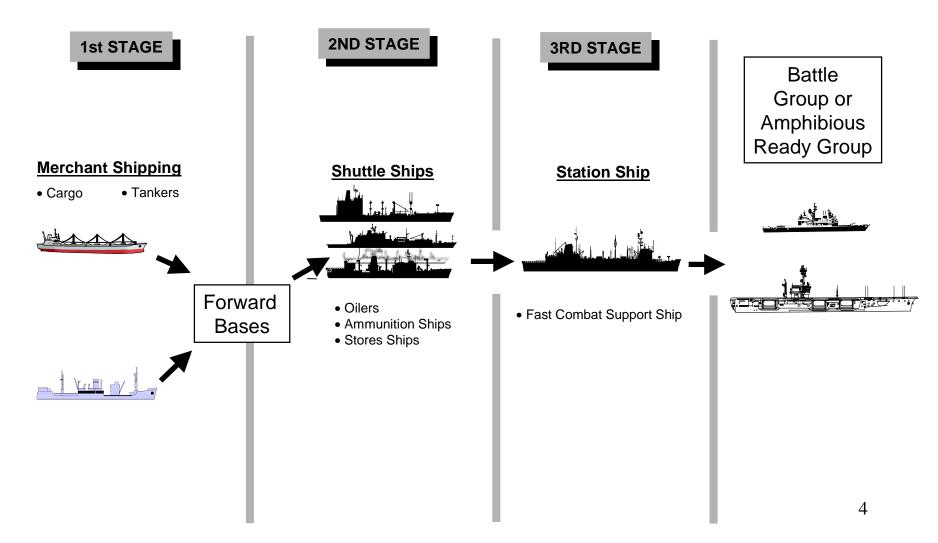
- Background
- Requirements
- Acquisition Strategy
- Point Design
- Additional Program Information

Concept of Operations Logistics Support For Operations In Littoral Areas



Concept of Operations Three Stage Logistics Support Train

T-ADC(X)

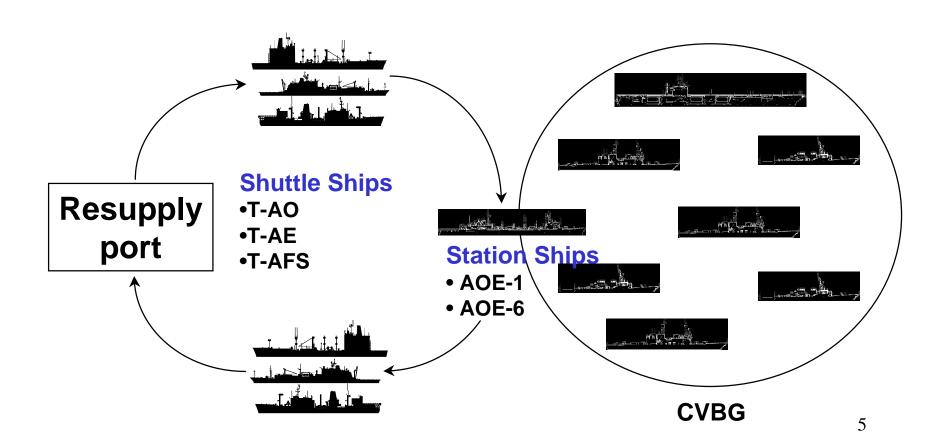




Concept of Operations Traditional CVBG Resupply



Station Ship / Shuttle Ship CONOPS





Concept of Operations Combat Logistics Force (CLF)





- In-Theater Resupply
- Operate With Battle Group





Concept of Operations Combat Logistics Force (CLF)



- Shuttles (TAE, TAFS, TAO)
 - Resupply Station Ships
 - Shuttle From Forward/Theater Ports
 - Civilian Crews & Military Dets (T-Ships)







Cargo Capacity:156,000 bbls Fuel1,800 tons Ammo

•Length: 754 feet

650 tons Stores

•Beam: 107 feet

•Speed: 25 knots

•Aircraft: 2 CH-46Ds

Crew: 25 Officers

470 Enlisted



The Combat Logistics Force Ammunition Ships (TAE)





Cargo Capacity:5,500 tons Ammo

•Length: 564 feet

Beam: 81 feet

•Speed: 20 knots

Aircraft: 2 CH-46Ds

Crew: 125 Civilians

24 Military



The Combat Logistics Force Combat Stores Ships (TAFS)





•Cargo Capacity:

3,925 tons Stores

•Length: 581 feet

•Beam: 79 feet

•Speed: 20 knots

Aircraft: 2 CH-46Ds

Crew: 124 Civilians

48 Military



The Combat Logistics Force Fleet Oilers (TAO)



TAO

Cargo Capacity:159,500 bbls Fuel

•Length: 677 feet

•Beam: 97 feet

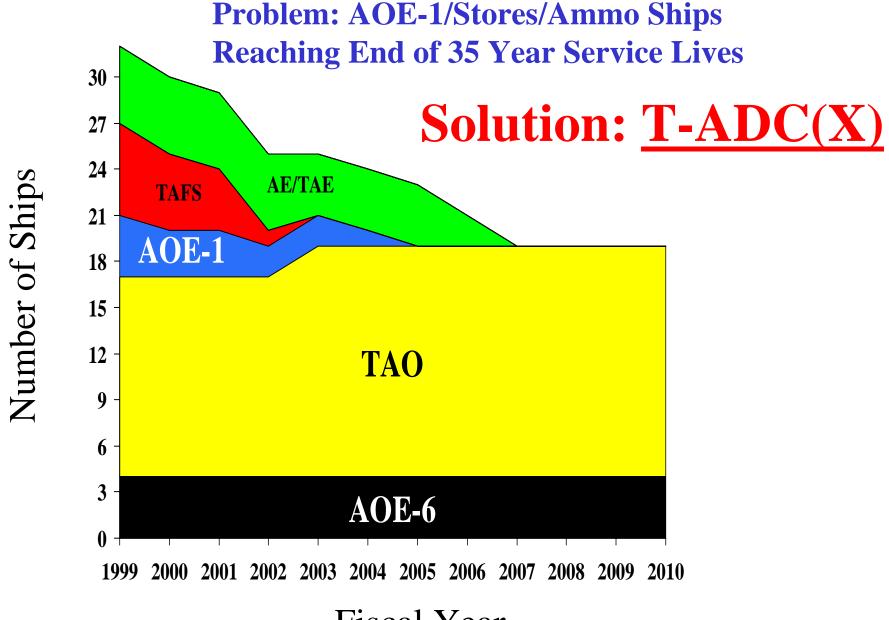
•Speed: 20 knots

•Crew:

85 Civilians

23 Military

Current Situation



Fiscal Year

PIVISBEZS *

Requirement AoA Findings



Current Fleet

6 TAFS

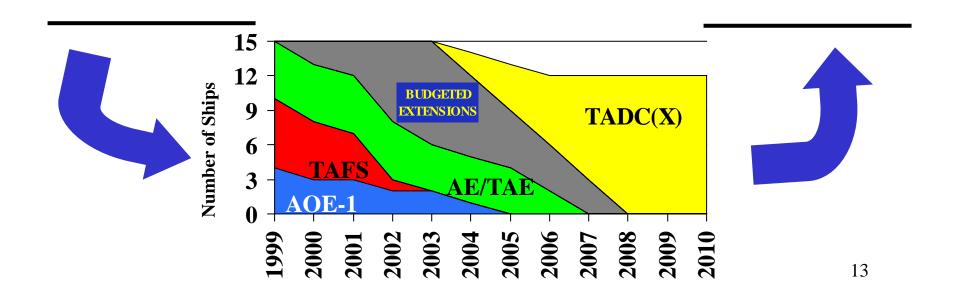
CLF Recapitalization Plan

Recapitalized Fleet



15 T-AO Ships
4 AOE-6

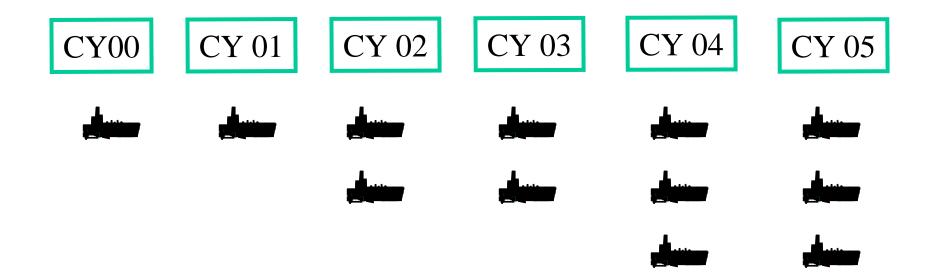
12 T-ADC(X)







Shipbuilding Profile





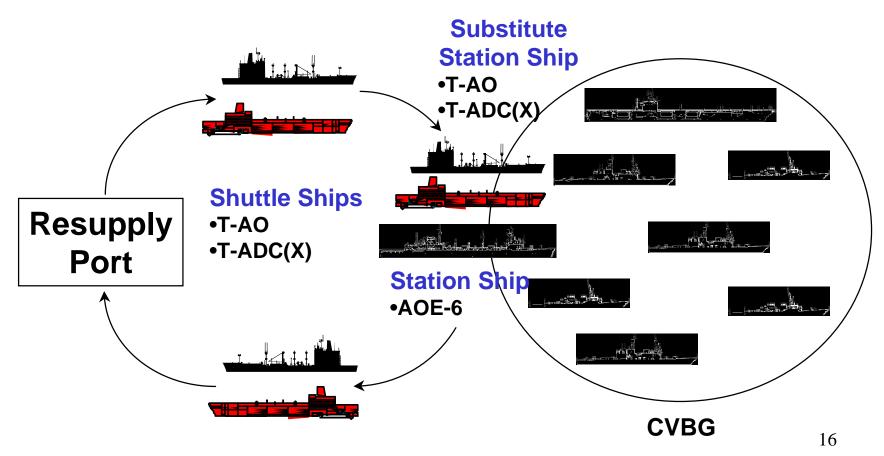


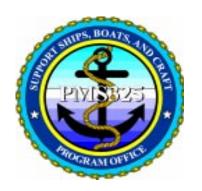
T-ADC(X) Mission

- Primary Mission
 - •Deliver Steady Stream of Ammunition and Stores
 - •In Its Shuttle Role Provide Logistics Lift Capability
- Secondary Mission
 - •Perform Substitute Station Ship Role in Company W/ T-AO

T-ADC(X) Shuttle/Substitute Station Ship Station Ship / Shuttle Ship CONOPS

T-ADC(X)





Operational Requirements



- Commercially designed and constructed -ABS/USCG/SOLAS
- Full AFS or AE loadout (or 60% of each) plus 18K bbls cargo oil
- Simultaneous Operations from 5 transfer stations
- Mobility
 - Sustained Speed 20 kts, Endurance 14,000 NM @ 20 kts
- Limitations
 - 210 m LOA, Panamax Beam, 9.5 m full load draft, 41 m air draft
- Navy Standard Underway Replenishment Equipment
- Two H-46D/H-60 Helos Hangared



Requirements in Excess of Commercial Practice



- Shock resistance for firefighting, exterior comms and damage control equipment.
- Weather Deck washdown, DECON Station and protective clothing.
- Degaussing System & NIXIE
- T-ship Damage Control and Management System
- Navy Aviation Facilities
- Navy Exterior Communications

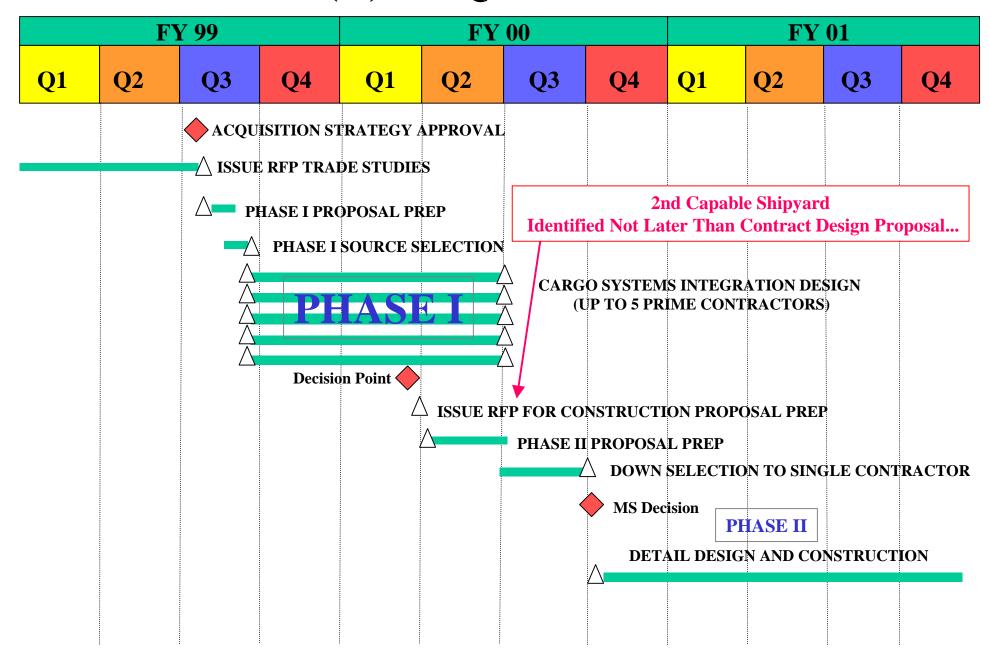


T-ADC(X) Acquisition Key Features



- Commercial Ship Acquisition
- Performance Specification
- Innovation in Cargo Flow Efficiency
- Minimize Life-Cycle Cost
- Build the Entire 12 Ship Class Using a Single Design
 - Requirement for Two Shipyards
- One Competition for the Class of Ships
- Award Lead Ship with Priced Options for 11 Follow Ships

FY 00 T-ADC(X) ACQUISITION SCHEDULE







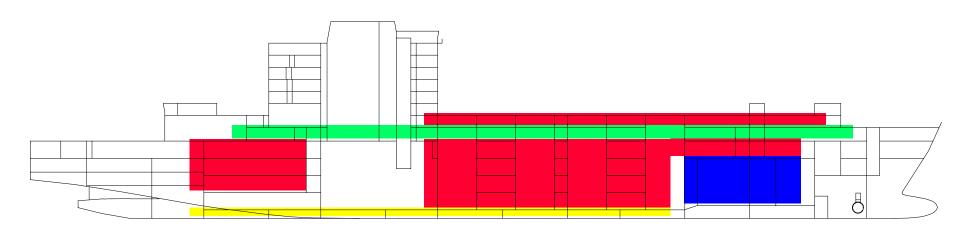
Phase I

- Award up to 5 Cargo System Integration Study Contracts
- If Teams Form, They Must Be Non-exclusive
- Potential Industry Days
 - Cargo Handling
 - Performance Specification









	English	Metric
LOA	689 ft	210 m
Beam	100 ft	30.5 m
Draft	28.9 ft	8.9 m
Full Load Displacement	35,850 lt	36,416 mt
Sustained Speed	20 kts	20 kts
Max Dry Cargo Weight	5463 lt	5550 mt
Percent AE 26 Ammo (vol)	100%	100%
Percent AFS 1 Stores (vol)	or 100%	or 100%
Max Cargo Fuel Weight	3,318 lt	3,371 mt
Cargo Fuel Volume	25,000 bbl	3,969 m3

Cargo Handling/ Prestaging	
Dry Cargo Hold	
Cargo Oil	
Ship's Fuel	







- Verifies performance requirements are achievable and affordable.
- Tool for assessing early cost / requirements impacts.
- Highlights missing/overlooked performance requirements.
- Intend to provide design and data to industry as information.



Areas for Industry Innovation



- Material Handling and Cargo Flow Efficiencies
 - Inventory management and planning aids
 - Incorporation of commercial practices and new technology
 - Flexibility to stow and handle various types of cargo
- Propulsion Systems
 - Propulsors
 - Prime Movers
 - Fuel Efficient Design



Areas for Industry Innovation



- Auxiliary Systems
 - Pumps (Ship System and Cargo)
 - Motors
 - Materials
 - Fluid Systems
 - Electrical Systems
- Ship Operations
 - Integrated Bridge Design
 - Environmental Compliance
 - Mooring Equipment
 - Accommodation ladder



Areas for Industry Innovation



Hotel Services

- Messing and Food Service Design
- Domestic Stores Handling
- HVAC Systems
- Waste Handling Systems

Corrosion Control

- Tank Coating Systems
- Paint Systems
- Cathodic Protection



Additional **Program Information**



- NAVSEA Contracts Directorate Website at http://www.contracts.hq.navsea.navy.mil/ webdata/acq/infodoc/t-adc(x)/t-adc(x).html
- T-ADC(X) Information Site
 http://www.navsea.navy.mil/adcx/pubadcx.html
- T-ADC(X) Intranet Site (The procedure to request access to this site is provided on the T-ADC(X) Information Site)

 http://adcx.navsea.navy.mil/padcx/intranet/home.

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