

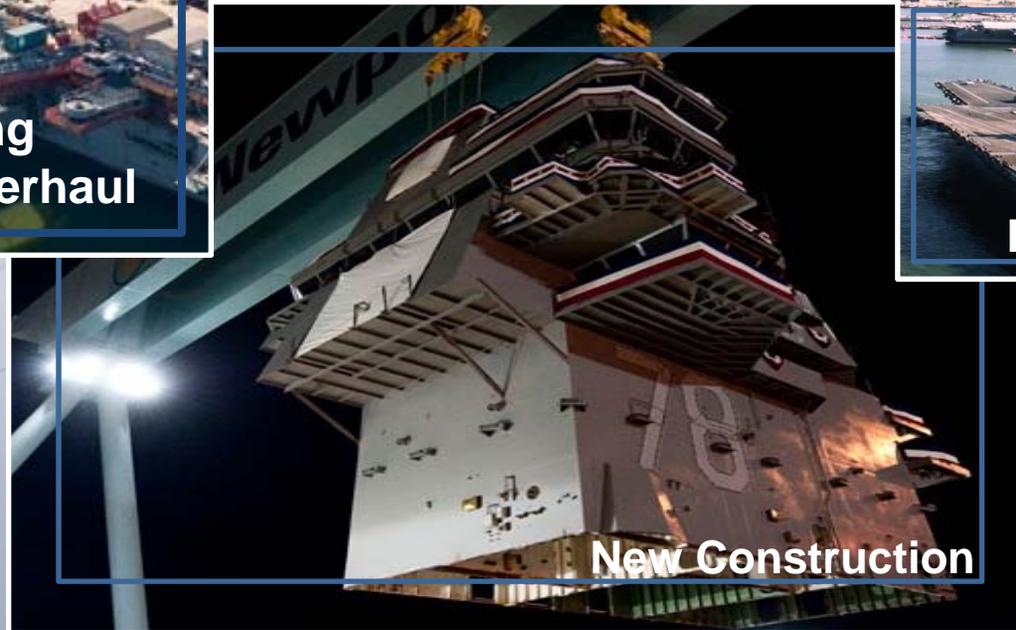


# PEO Carriers Command Overview Small Business & Industry Day

CVN 78 Class Program Office (PMS 378)



# What Are the Key Areas PEO (CV) Provides to the Navy?





# PEO (CV) Priorities

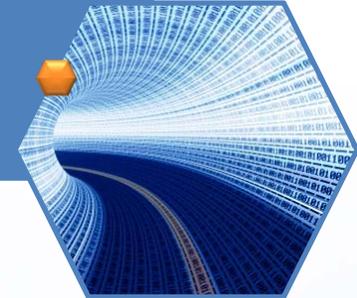
## Affordability

- Reduced Manning
- Reduced Manhours - Production Efficiency
- Cost Caps
- TOC Reduction



## Innovation

- Smart Systems
- Better use of Information Technology
- All electric systems



## Cybersecurity

- Shipboard systems (machinery control, navigation, C4ISR, Combat Systems, Aviation Support Systems)
- Shore based systems (offices and shipyard)



## Effectiveness

- Mission Readiness
- On-Time Delivery
- More operations for less down-time



## Efficiency

- Standardization
- Commonality
- Level loading to stabilize workload



## Programmatic

- Acquisition Planning and Execution
- Lifecycle Management





# GERALD R. FORD-Class



## THE FUTURE IS NOW

- The GERALD R. FORD-class brings new improvements over the NIMITZ-class, including:
  - Increased flexibility
  - Nearly 3 times the electric plant capacity
  - Restored weight and stability service life allowances
  - Increased capability
  - 33% increase in Sortie Generation Rates
  - Increased space for Flight Deck operations and aircraft maintenance
  - Increased affordability
  - Reduced manning and 20% reduction in maintenance costs
  - Designed for 43-month maintenance cycle and 12-year docking intervals

## GERALD R. FORD CLASS



CVN 78 GERALD R. FORD  
CVN 79 JOHN F. KENNEDY  
CVN 80 ENTERPRISE



NO FEAR.  
NO LIMIT.  
NO EQUAL.



### Opportunity for Small Business:

- *Follow-on Support of Systems*
- *AIT Installations of new systems after ship delivery*
- *Compartment Completion*
- *SBIR and other Govt Programs for cost savings and innovation*



# JOHN F. KENNEDY (CVN 79)



**Second Ship Construction Thru FY22,  
With Two More Ships In Planning**



## Phase I

- Constructs the basic ship
- Full propulsion capability
- Aircraft launch & recovery equipment necessary to demonstrate flight deck
- Core systems for safe navigation

## Phase II

- Completes remaining selected systems & compartments
- Use of competition / skilled installation teams
- Procure & install shipboard electronics at latest possible date
- Allows concurrent install of combat system and DBR replacement radar suite



## **Opportunity for Small Business:**

- *Subcontracting with HII during Phase I*
- *AIT Installations in Phase II*
- *Lifecycle Support after delivery*



# In-Service Aircraft Carriers



***Providing Class Maintenance, Fleet Modernization and Life Cycle Management of the Aircraft Carrier Fleet in support of the Naval Aviation Enterprise and Naval, Joint and Coalition Force Operations***

## **Nimitz Class Life Cycle Support:**

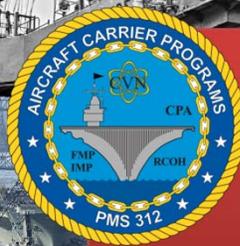
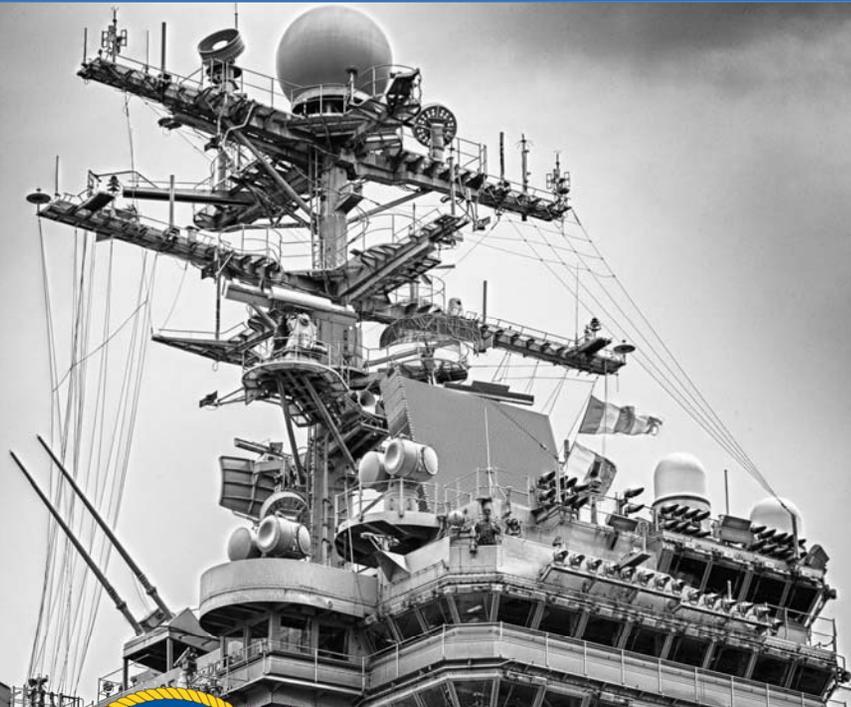
- 10 Ships (~50 years of expected service life)
- Drydocking Planned Incremental Availabilities (DPIA) – 16 Months (notional)
- Planned Incremental Availabilities (PIAs) – 6 Months (notional)
- Continuous Incremental Availabilities (CIA) – 1.5 Month

## **Refueling Complex Overhaul (RCOH):**

- Mid-life Overhaul (midpoint of a 50 year service life)
- 44 Months (notional)
- 3.3M man-days of planning and execution
  - Refuel
  - Modernize
  - Deep Maintenance



**AIRCRAFT CARRIER  
READINESS  
IS OUR  
MISSION**



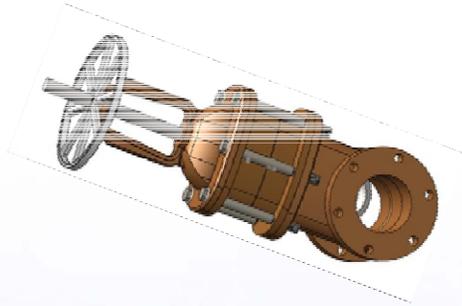
## **Opportunity for Small Business:**

- Contracting and subcontracting with Public Yards (NNSY & PSNY)
- Contracting and subcontracting with Regional Maintenance Centers (RMCs)
- SBIR and other Govt Programs for cost savings and innovation



# Current Small Business Efforts

## In-Service Aircraft Carriers SBIR Actions



### Low Maintenance/Low Cost Valves

Develop affordable, low maintenance seawater and freshwater valves with comparable characteristics of typical valves equipped with standard gland packing

***SBIR N102-160, FY10, Phase II Option 1 funded and in process***



### Long Distance Remote Maintenance

Develop a system which would increase the operational availability of equipment aboard Aircraft Carriers by using a remote, long distance diagnosis tool to aid Ship's Force Personnel in the repair Ship Systems while underway

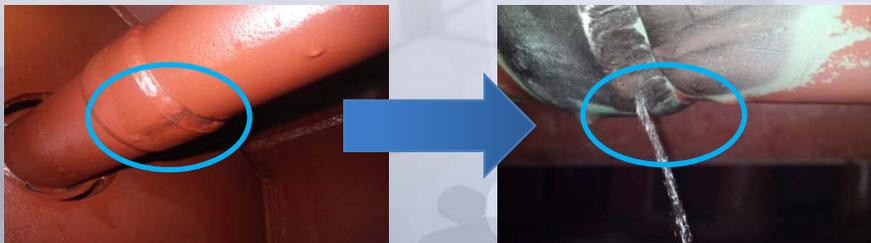
***N103-218, FY10, Phase II Option 1 funded and in process***



### Low Cost/High Reliability Proximity Switches

Demonstrate high reliability, low cost proximity switch functionality and form factors that are well suited for easy replacement of current switches

***SBIR N111-038, FY11, Phase II Option 1 funded and in process***



### Thin Walled Corrosion Resistant Steel (CRES) Pipe Leak Repair

Develop a cost effective and reliable repair patch/technique to fix leaks in Thin Walled CRES pipes in JP-5 systems

***SBIR N141-052, FY14, Phase I funded and completed; Phase II evaluations and determination underway***



### Acoustic, Thermal & Fire Insulation System

Develop spray – on materials for application on pipes, conduits, bulkheads etc. to minimize transmission of flight deck noise into the ship

***SBIR N04-221, Phase III and has transitioned to CVN funding***