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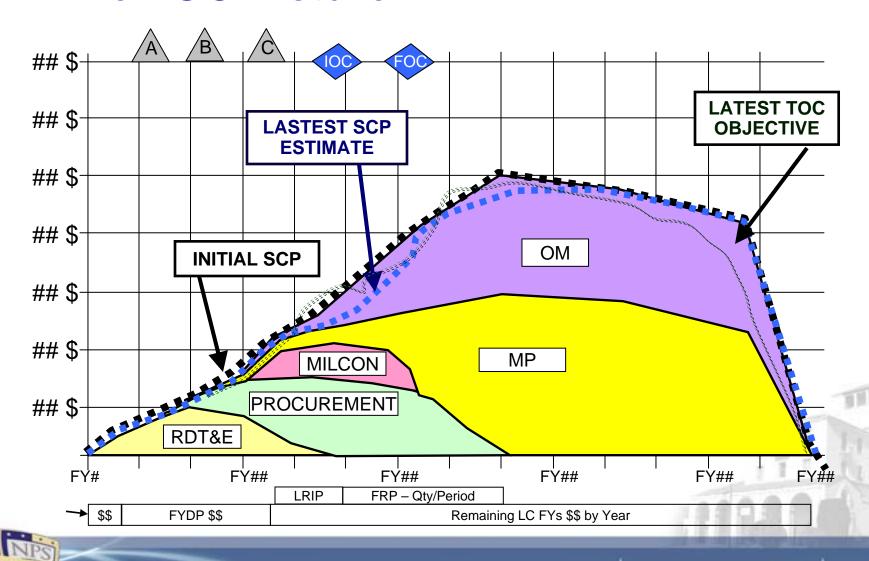
- Panelists:
- Mr. Lou Kratz, Lockheed Martin Corporation
 - "Achieving Life Cycle Capability"
- Mr. William Lucyshyn, University of Maryland
 - "Acquisition of Mine-Resistant, Ambush-Protected (MRAP)
 Vehicles: A Case Study"
- Mr. J. David Patterson, University of Tennessee
 - Discussant

Quote

"Total ownership costs are part of my requirements and acquisition decisions. We will not buy a ship if it is unaffordable today and we will not buy it if it will be unaffordable over its lifetime."

Chief of Naval Operations, Admiral Gary Roughead

The TOC Picture



Navy's Primary TOC Challenges:

- Life Cycle Costs are set early in an acquisition program most set prior to Milestone B
 - Understanding & influencing the cost drivers is essential
 - Need to increase the focus on TOC at every decision point
- The majority of the 2020 Battle Force exists today
 - 222 of today's 285 ships are required in 2020
 - Platforms must achieve their Expected Service Life
- Life cycle costs of next generation systems must be more fully understood
 - Increased fidelity of sustainment strategies is essential
 - The VA Class Submarine is representative of the future

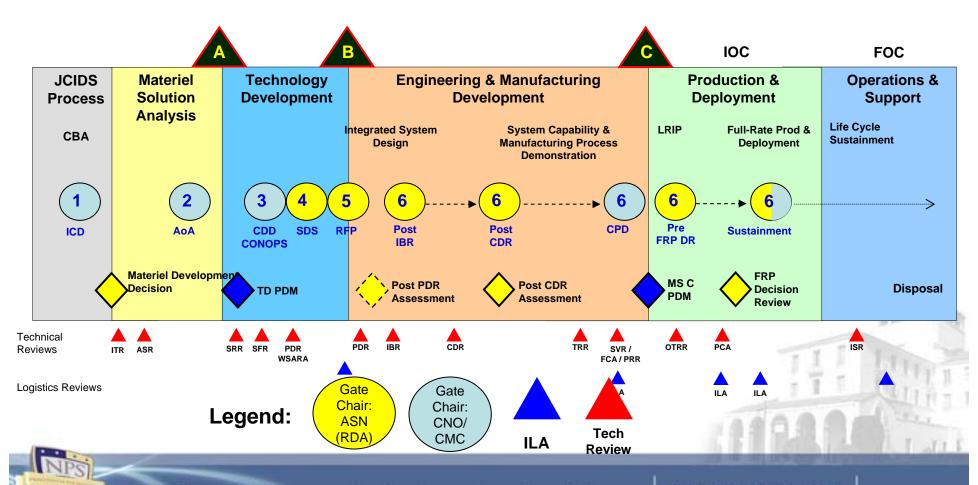
N4 Strategy for TOC Reduction

Goal - Infuse affordability considerations into the life cycle of Navy platforms and systems through:

- Navy's TOC advocate focused on Sustainment
- Acquisition Governance
 - SECNAVINST 5000.2E Navy Acquisition Process Instruction revision (ready for signature)
 - Affordability Metrics: Probability of Program Success (PoPS) v2.0 criteria
 - Gate Review Participation
- JCIDS and Logistics Functional Capabilities Board (LOG FCB) Engagement
- Affordability Cross Functional Teams (CFT)
- Logistics Human Capital Campaign

DON Acquisition Process Alignment SECNAVINST 5000.2E

Program Initiation at Milestone B



JCIDS & LOG FCB Process Engagement

JCIDS Process Reviews

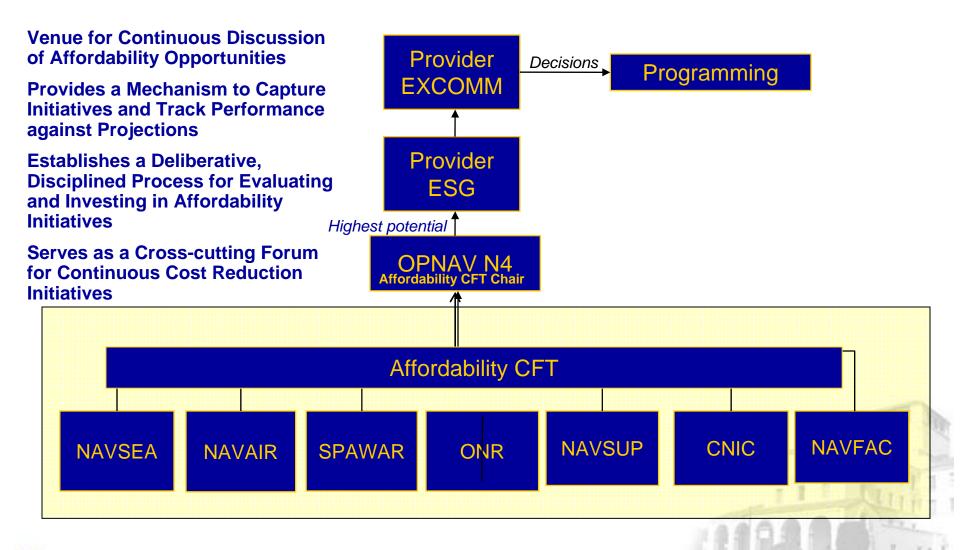
- Review all Joint Capability Integration and Development System (JCIDS)
 process documents from all services as the Navy rep for logistics and
 sustainment (CBA, ICD, CONOPS, CDD, CPD, DCR)
- Assess for TOC and affordability implications
- Some impact Navy budget/mission, others do not

Logistics Functional Capability Board (FCB) Navy Representative

- Prepare Navy leadership for Logistics topics at the Joint Capabilities Board (JCB) and Joint Requirements Oversight Council (JROC)
- Logistics JCB is chaired by USTRANSCOM most other JCBs chaired by Joint Staff
- Coordinate Logistics Capability Gap Assessment response
- Navy representative for Logistics Joint Urgent Operational Needs (JUONS)



Affordability Cross Functional Team (CFT)



Logistics Professional Development Framework Vision

Targeted position and its required Competencies

Supply Management: 3

Distribution/Transportation: 5

Maintenance Support: 1

Defense Lifecycle Logistics: 2

PDF:

- Regular assessment & career progress tracking
- Consistent expectations for job requirements
- Individualized roadmap towards career goals

Current position and competency levels

Supply Management: 1 Distribution/Transportation: 2

Maintenance Support: 1

Defense Lifecycle Logistics: 2

Name & Contact information	n
Name:	John Smith
Serial number:	2454KF91
Manager:	Julie Jones
Workforce Category Levels	
Supply Management	1
Distribution & Transportation	2
Maintenance Support	1
Defense Life Cycle Logistics	2
Fundamental Competencies	
Public Service Motivation	Experienced
Continual Learning	Experienced
Oral/Written Communication	Foundation
Integrity/Honesty	Experienced
Interpersonal Competencies	Advanced
Leadership & Management	Competencies
Business Acumen	Experienced
Leading People	Foundation
Leading Change	Experienced
Results Driven	Experienced
Communication	Advanced

Notional Example of a Logistician's PDF profile



Virginia Class Submarine RTOC IPT Focus Areas

Acquisition IPT

DFA Initiatives

-Block III revisited
-Block IV new ideas
-Ideas generated in other

IPTs °

-ManTech

Capability Enhancement

Bottom ocean interface Manned access to aft VPT

Flexible payload sail SONAR (CAVES, flank arrays)

Commonality

Open architecture payload middleware

-Common sail

HM & E platform management system

-CCSM

Electric Actuation



Support

Sparing

- PBL
- RBS Modeling
- On-Board Retail
- Wholesale
- OSISL
- Shop Stores
- Stocking Policies
- Combined Procurement

Training /Tech Data

Operational Basing & Level Requirements

- Special Requirements
- Stand Up
- Capabilities per FLevel
- Capabilities Shipyard
- In Service Engineering (ISE) / Modernization

Manning

- Initial NSSN manpower studies and plan
- SMMTT for APBs
- CNA Study
- Impact of new technology

Life Cycle

- Design for Life Cycle Affordability
- Attack cost drivers identified in TOC Baseline
- Sustainment efforts
- Infrastructure/ tools/technology
- 15 Deployments Over Life of Each Ship
- Reduce Total Time for Depot Maintenance to <36 months

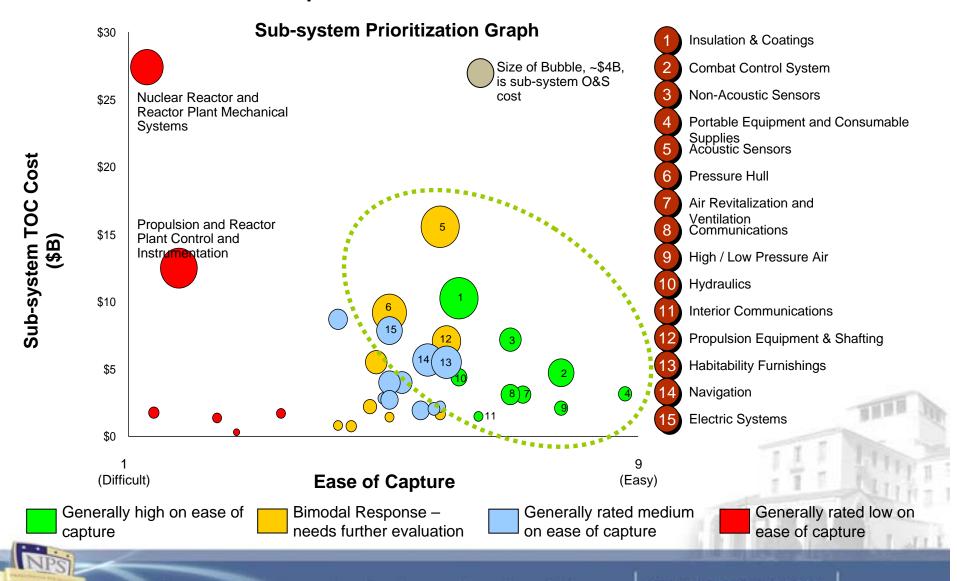
Maintenance

- Reduce EDSRA Cycle Time to 11 months or less
- Initial barrier investigations
 - Space Closeouts to Prep for SS00
 - DMD scheduling
 - Propulsor/Shafting
 - LWWAA (Maintenance, Testing, Alignment)
 - End Game
 - FBW Testing Process
 - CSO Equipment Build/Testing (Sail, VLS prior to UD00)



Virginia Class Submarine

Identified 15 potential Cross Functional Team Candidates



TFT Study SSN 774 – 775

Total Man-days: 827K Depot months: 60 (15%) Deployments: 13

TFT Study SSN 776 – 781

Total Man-days: 827K Depot months: 60 (15%) Deployments: 13

TFT Study SSN 782 – 791

Total Man-days: 734K Depot months: 56 (14%) Deployments: 14

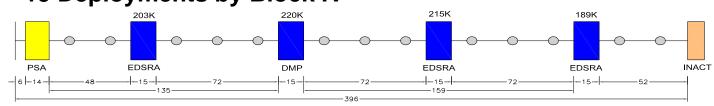
Transition to Block IV Target

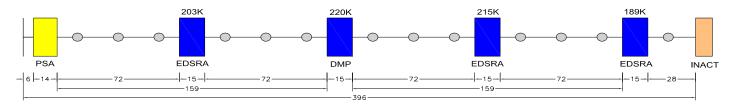
Total Man-days: TBD Depot months: 40 (10%) Deployments: 15

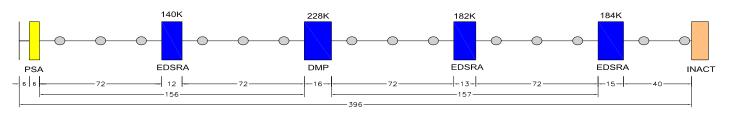
Block IV Target SSN 792 - 803

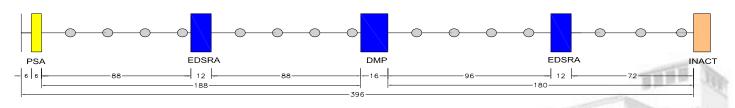
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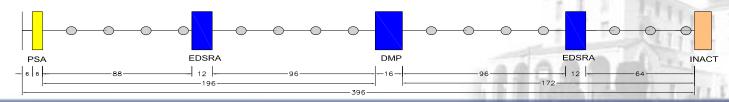
VIRGINIA Class Maintenance Life Cycle-15 Deployments by Block IV













INTRODUCTIONS



"Achieving Life Cycle Capability"

Mr. Lou Kratz, Lockheed Martin Corporation VP of Logistics & Sustainment, Corporate Engineering & Technology for Lockheed Martin Corporation.

"Acquisition of Mine-Resistant, Ambush-Protected (MRAP) Vehicles: A Case Study"

Mr. William Lucyshyn, Director of Research and Senior Research Scholar at the Center for Public Policy and Private Enterprise, School of Public Policy, University of Maryland

Mr. J. David Patterson, Executive Director, National Defense Business Institute, University of Tennessee

