

Strategic Investment Plan Update

Strategic Investment Plan 2010

- SIP 2010 Working Group comprised of Major Initiative Leads, Panel Chairs and Navy reps
- ECB and Navy provided guidance on direction and focus of SIP 2010
- Working Group met at ATI on July 14.
- Next Steps:
 - Teams are working on their respective sections
 - ATI is developing document structure (described on next slide)



Proposed Volumes

Volume 1 Strategic Investment Plan

- Record of Changes
- Endorsements
- Introduction (brief explanation of NSRP)
- Summary of Industry and Navy Priorities (SECNAV big 3)
- Focus Areas (combined Navy/ECB strategic guidance)

Update every 2 years

Volume 2 SIP Appendices

- Benchmarking
- Methodology
- Acknowledgements
- Glossary
- References (project book, etc.)

Update sections as necessary

Volume 3 Organization & Operations

- NSRP CONOPS (MI/Panel structure; project activities; history)
 - Program History
 - Organization / Structure
 - R&D Project Process

Fairly Static



Strategic Investment Plan 2010

- Next Steps (continued):
 - Draft Volume I was reviewed at the September ECB meeting
- Goal for Plan completion is December 2010



Shipyard Production Processes

5.2.1 DEFINITION

Addresses planning and production processes used to transform raw material, components and equipment into completed products and processes that include:

- Steel and aluminum Fabrication (steel, composites, and all outfit types)
- Sub-assembly
- Assembly and erection
- Outfit fabrication
- Installation and test
- Surface preparation and coatings
- Process control (accuracy control and process management)
- Industrial engineering
- Production control (in-yard material planning and coordination)
- Services (e.g., transportation and rigging, tool rooms, temporary ventilation/lighting, etc.)
- Electrical work (e.g., cable routing, circuit management, composite enclosures, and electrical connectors)
- Outfitting Processes
- Structural Processes
- Manufacturing Technology
- Welding / Joining / NDT
- Planning
- Production Engineering
- Design for Planning & Engineering
- Work Sequencing
- Improve Production Engineering

SPPT Input for Areas of Particular Interest

Major Focus Area	Areas of Concentration	SPPT
Promoting Modular Construction	<ul style="list-style-type: none"> • Outfitting Modules / Standard Interim Products • Cable Splicing / Connectorization • Testing of Modules • Equipment Protection • Controlling Environment for Efficient Outfitting 	<ul style="list-style-type: none"> • Handle larger ship blocks • Greater use of connectors • Increase unit outfitting • Increased Accuracy Control • Improved Equipment protection
Reducing Re-work	<ul style="list-style-type: none"> • Process Control via statistical analysis of accuracy 	<ul style="list-style-type: none"> • Improve Accuracy Control • Handling change more efficiently • Improve welding processes • Improve surface preparation & coatings processes • Improve electrical processes • Increase use of automation
Improving Production Engineering	<ul style="list-style-type: none"> • Span Time Reduction • Optimized Sequencing of Work • Definition of Interim Products • Cellular Manufacturing / Process Lanes 	<ul style="list-style-type: none"> • Definition of Interim Product Standards • Process Lanes • Cellular Manufacturing



SPPT Input for Areas of Particular Interest

Major Focus Area	Areas of Concentration	SPPT
Improving Specifications and Standards	<ul style="list-style-type: none">• Eliminate unnecessary and/or redundant requirements	<ul style="list-style-type: none">• Welding Standards
Improving Manufacturing Processes	<ul style="list-style-type: none">• Welding Process Improvements• Surface Preparation and Coatings Process Improvements• Electrical Process Improvements	



SPPT Input for Areas of Particular Interest

Major Focus Area	Areas of Concentration	SPPT
Improving Production Planning	<ul style="list-style-type: none"> Optimized Work Packages Work Package Development Tools 	<ul style="list-style-type: none"> Modeling and Simulation Work Package Content Standards
Improving Data Exchange	<ul style="list-style-type: none"> Integrating internal systems (ERP, estimating, planning, scheduling, procurement, etc.) External Exchange (Navy-Industry) 	
Improving Safety & Health / Reducing Environmental Impacts	<ul style="list-style-type: none"> Reducing Injuries Reducing shipbuilding energy consumption 	
Improving Education and Training	<ul style="list-style-type: none"> Improved Processes Standardization across Industry 	
Total Ownership Cost	<ul style="list-style-type: none"> Increased use of composites Design for Maintenance and Repair Parts Commonality Any other area in which ship total ownership costs can be reduced 	