NSRP | National Shipbuilding Research Program

Equipment Sight/Site Validation Tool

INGALLS SHIPBUILDING
A Division of HII

GENERAL DYNAMICS
Bath Iron Works

NSRP
NATIONAL SHIPBUILDING RESEARCH PROGRAM™
Taking Shipbuilding and Repair to the Next Level

Sustainment Panel Meeting, FMMS

(Fleet Maintenance and Modernization Symposium)

September 2023

Problem Statement

- Timely and accurate reporting of the as-built configuration is imperative through-out the ship's life
  - Sight validation is used to verify ship's configuration at any stage
- Current shipyard sight validation data collection processes are designed to interface with Configuration Data Managers Database – Open Architecture (CDMD-OA) system
  - Navy is transitioning to Model Based Product Support (MBPS) as the Configuration Status Account (CSA) tool of record
  - Current digital tools will be obsolete
  - Paper-based sight validation data collection increases cost
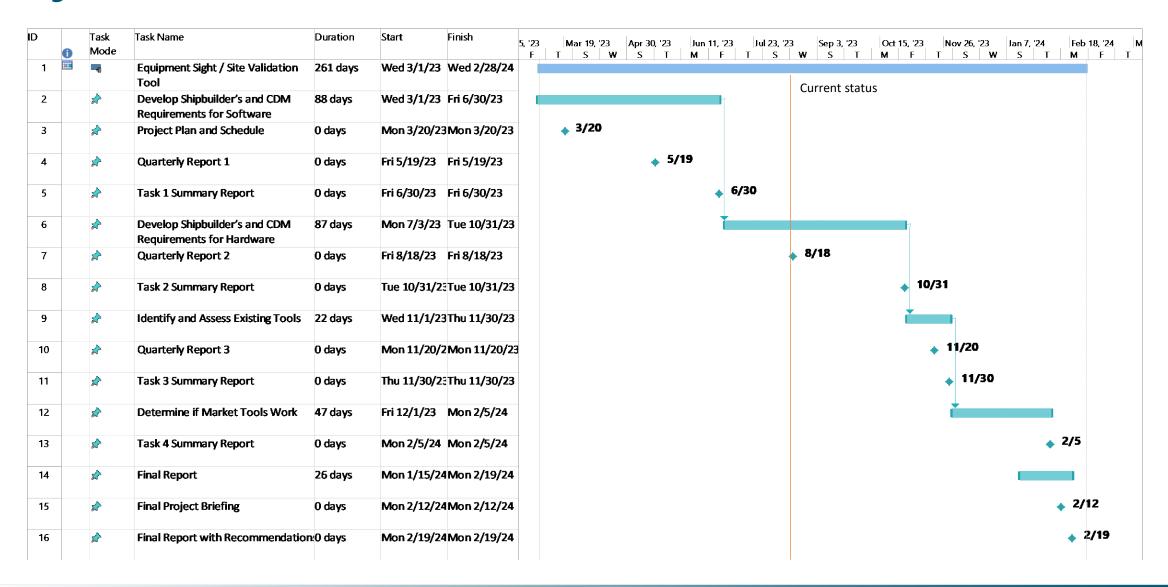
Goals and Long-Term Objective

- Goals:
    1) Explore current capabilities of existing electronic tools and software that could meet shipyard sight validation requirements
    2) Develop software and hardware requirements for a digital sight validation tool that interfaces with MBPS

- Long-term objective:
    1) Deploy the digital sight validation tool that provides data to MBPS at reasonable cost without use of paper validation aids

Project Team

- HII Ingalls Shipbuilding
  - Project lead
  - Paula Lacharite, Becky Sparkman, Joann Sullivan, Randy Gurley, David Furr, John Walks
- General Dynamics Bath Iron Works
  - Collaborating shipyard
  - Andy Blackman, Michael Goodine, Daniel LaPointe

- ATI (NSRP Program Administrator)
  - Jim House, Project Manager
- Kakou Professional Development
  - Kaipo Crowell, Program Technical Representative

Project Tasks Schedule

ID	Task Mode	Task Name	Duration	Start	Finish
1		Equipment Sight / Site Validation Tool	261 days	Wed 3/1/23	Wed 2/28/24
2		Develop Shipbuilder's and CDM Requirements for Software	88 days	Wed 3/1/23	Fri 6/30/23
3		Project Plan and Schedule	0 days	Mon 3/20/23	Mon 3/20/23
4		Quarterly Report 1	0 days	Fri 5/19/23	Fri 5/19/23
5		Task 1 Summary Report	0 days	Fri 6/30/23	Fri 6/30/23
6		Develop Shipbuilder's and CDM Requirements for Hardware	87 days	Mon 7/3/23	Tue 10/31/23
7		Quarterly Report 2	0 days	Fri 8/18/23	Fri 8/18/23
8		Task 2 Summary Report	0 days	Tue 10/31/23	Tue 10/31/23
9		Identify and Assess Existing Tools	22 days	Wed 11/1/23	Thu 11/30/23
10		Quarterly Report 3	0 days	Mon 11/20/23	Mon 11/20/23
11		Task 3 Summary Report	0 days	Thu 11/30/23	Thu 11/30/23
12		Determine if Market Tools Work	47 days	Fri 12/1/23	Mon 2/5/24
13		Task 4 Summary Report	0 days	Mon 2/5/24	Mon 2/5/24
14		Final Report	26 days	Mon 1/15/24	Mon 2/19/24
15		Final Project Briefing	0 days	Mon 2/12/24	Mon 2/12/24
16		Final Report with Recommendations	0 days	Mon 2/19/24	Mon 2/19/24

Current status

Gantt chart milestones: 3/20, 5/19, 6/30, 8/18, 10/31, 11/20, 11/30, 2/5, 2/12, 2/19

Project Tasks

Task 1: Develop Shipbuilder and Configuration Data Manager (CDM) requirements for software Completed

- Conduct a Kick-Off Meeting
- Develop software requirements based on stakeholder needs

Task 2: Develop Shipbuilder and CDM requirements for hardware 8/18/23

- Develop hardware requirements based on stakeholder needs

Task 3: Identify and Assess Existing Tools

- Perform a market survey of existing hardware and software options

Task 4: Determine if Market Tools Work

- Determine if one or more of the existing tools on the market can support the above requirements

Task 5: Final Report

- Prepare final report with conclusions and recommendations

Team Responsibilities

Task	HII Ingalls	GD BIW
Task 1: Develop Shipbuilder and CDM requirements for software	Lead	Collaborate
Task 2: Develop Shipbuilder and CDM requirements for hardware	Lead	Collaborate
Task 3: Identify and Assess Existing Tools	Lead	Collaborate
Task 4: Determine if Market Tools Work	Lead	Collaborate
Task 5: Final Report	Lead	Collaborate

Collaboration with NAVSEA

- MBPS data input needs will form a significant part of the system requirements effort in Tasks 1 and 2
  - The team needs to get them right!
- Project team has communicated with NAVSEA personnel responsible for MBPS deployment during proposal phase
- Project team will pursue dialogue with NAVSEA throughout project execution

Summary

- Status: Ingalls Task Order just awarded
  - Statements of Work are prepared for Ingalls and BIW
  - Ingalls has task order in hand
  - NAVSEA is aware and supportive
  - Ingalls and BIW are working the project.

Questions?