

# Contract Brief: Autonomy Baseline Management Contract for PEO USC

The U.S. Navy's Autonomy Baseline Manager (ABM) contract, managed by the Program Executive Office for Unmanned and Small Combatants (PEO USC), Unmanned Maritime Systems Program Office (PMS-406), focuses on integrating autonomy software into unmanned maritime systems. Awarded to Sigma Defense in February 2024, this five-year, \$59 million contract encompasses several key requirements:

- ▶ **Integration of Autonomy Software:** Implement and manage autonomy software across various unmanned vehicles to enhance their operational capabilities.
- ▶ **Utilization of DevSecOps and Agile methodologies:** Apply modern software development practices, including DevSecOps and Agile, to ensure rapid and secure delivery of software solutions.
- ▶ **Implementation of the Rapid Autonomy Integration Lab (RAIL) process:** Employ the RAIL framework to facilitate continuous integration and continuous delivery (CI/CD) of software to unmanned systems, streamlining the deployment of autonomous functionalities.

These requirements aim to advance the Navy's unmanned capabilities by ensuring that autonomy software is seamlessly integrated, rapidly deployed, and effectively managed within its maritime systems.

## Sigma Defense and ABM

Sigma Defense provides cybersecurity, configuration management, and integration services for autonomy software on unmanned vehicles (UxVs) for PMS 406. Leveraging our deep DevSecOps experience, Sigma Defense delivers tools and processes to manage pipelines and integrate autonomous capabilities among UxVs.

- ▶ Promote modular, interoperable, and interchangeable software solutions within the UxV ecosystem
- ▶ Establish, maintain, and grow capabilities and utilization of UxV Autonomy Baselines
- ▶ Provide UxV capabilities using DevSecOps and Agile methodologies within the U.S. Navy RAIL software factory
- ▶ Develop a software library of functionality to be utilized across autonomous solutions
- ▶ Reduce and simplify software configuration management footprint
- ▶ Establish and enforce baseline architectures and standards for existing and future platforms
- ▶ Forge stakeholder alliances in the use of autonomous systems capabilities aligned with PMS 406 autonomy baseline requirements



"Sigma Defense has a long history of successfully delivering DevSecOps capabilities to the U.S. Navy through our work on Black Pearl, The FORGE, and the Rapid Autonomy Integration Lab (RAIL). We are pleased to build on that success and deliver new tools, processes, and integration expertise to bring new capabilities to PMS 406."

— Ed Anderson, Executive Vice President of Sigma Defense IMS Division

## Sigma Defense Delivers for PMS 406

PMS 406 Unmanned Maritime System relies on Sigma Defense for expertise, processes, and technology to accelerate the development of unmanned capabilities and long-range fires. This will allow the U.S. Navy to deliver more robust capabilities to the warfighter faster and more efficiently to ensure maritime dominance.

### Sigma Defense delivers:

- ▶ Seamless integration of Intelligent Autonomous Systems
- ▶ Cost-effective platforms and manned-unmanned alignment to increase the fleet's capacity and expand the ability to distributed forces
- ▶ An environment where unmanned systems are at the front lines of the U.S. Navy's competitive advantage
- ▶ The ability to deploy a Common Control System (CCS) integrated into ashore control centers (UOC) and afloat combat systems