

CUSTOMER FOCUSED, MISSION READY



MARINETTE MARINE  
BOEING  
OCEANEERING  
GRIFFON HOVERWORK

TEAM SSC COMMANDS A POWERFUL ARRAY OF SKILLS THAT WILL DELIVER A LOWER TOTAL COST, HIGHER-AVAILABILITY, MISSION-READY LCAC REPLACEMENT.



## MARINETTE MARINE CORPORATION

Designated as a Premier Supplier by the United States Navy, the MMC defense portfolio includes a wide range of technologically superior vessels, including the U.S. Navy's Littoral Combat Ships **USS Freedom** and **USS Fort Worth**. MMC has been awarded a contract to deliver 10 additional LCSs and is the prime contractor for the United States Coast Guard's Response Boat Medium, which is built at its Aluminum Center of Excellence in Green Bay, Wisconsin.



## THE BOEING COMPANY

Boeing is a pioneer in advanced rotorcraft technology and systems integration, mission-tested propulsion drivetrain, composite propellers, and pilot/copilot C4N systems. The company has the demonstrated ability to manage large government contracts and to guarantee total life-cycle support around the globe. Boeing's cutting-edge command station simulator facility will ensure consistency and cost savings in pilot training.



## OCEANEERING INTERNATIONAL

Oceaneering holds the current Service Life Extension Program contract for the Landing Craft Air Cushion, providing in-field maintenance and repair support. The company brings real-world experience in the factors that cause craft wear and tear, resulting in design improvements that will reduce construction costs and make the SSC more durable and easier to maintain. Existing facilities at ACU 4, ACU 5 and Panama City, Florida, ensure low-risk testing and support for SSC craft.



## GRIFFON HOVERWORK

A major force in the development of hovercraft technology since the dawn of the industry more than 40 years ago, Griffon Hoverwork is the world's leading hovercraft manufacturer. Griffon Hoverwork has continuously incorporated design, manufacturing and operational testing improvements into their wide range of hovercraft deliveries, and has placed more than 150 hovercraft in operation in 40 countries around the globe.

# MISSION STATEMENT

---

Team SSC will deliver a superior craft with unrivaled operating capabilities and exceptional performance over its 30-year service life. A next generation platform that:

- **Is More Affordable**
- **Has Superior Operational Availability**
- **Is Lowest Total Risk**

Team SSC will accomplish these goals by using a proactive customer-centered approach and Best of Industry practices in all aspects of program management; we will bring to bear sophisticated systems engineering and baseline management capabilities in a total cost-reduction approach from construction through service life; we will integrate proven technologies to provide innovative, cost-effective, long-term solutions; we will optimize supply-chain management and quality control; we will ensure production execution and scalability in all relevant capabilities, including facilities, processes, plans and people; we will guarantee customer involvement and partnership at all stages and all levels of interaction; and we will position ourselves to provide total global life-cycle SSC support.

Team SSC will use the combined expertise, vision and experience of its partner companies to design, build and deliver a Ship to Shore Connector that will set new standards of performance.

---



MARINETTE MARINE  
BOEING  
OCEANEERING  
GRIFFON HOVERWORK

# CUSTOMER FOCUSED



## A TRUE PARTNERSHIP

Better than any alternative, Team SSC will forge a close partnership with the Navy and with end users to deliver an SSC that meets warfighter needs and exceeds requirements. Working in cooperation with the Navy SSC program office, Team SSC will provide the program office and oversight bodies with unprecedented transparency, openness, access and visibility into the program's performance. The customer will be an integral part of all SSC product teams, with the authority and ability to resolve issues quickly in close collaboration with Team SSC. We'll meet these customer requirements: Reliability, Maintainability, Availability, Designed for Producibility, Hovercraft Performance Enhancement, Designed for 30-Year Service Life and Optimized Total Ownership Costs.

# MISSION READY



## SYSTEMS ENGINEERING AND DESIGN

The Team has sophisticated design and modeling software and systems in place to evaluate all stages of SSC design, manufacturing and performance, from development to life-cycle support. The process starts with a complete understanding of customer needs and requirements. Engineers of every discipline break down the requirements of major systems into subsystems, and then further to their smallest components, designing functionality and reliability into each individual unit. Through this baseline approach, key issues of risk are identified and addressed in the design stage, not in the field. This Systems Engineering approach reduces production time and maximizes production efficiency, improves craft performance and reliability, and results in lower total ownership costs. It ensures seamless integration as component systems interface.



## PRODUCTION EXECUTION READINESS AND SCALABILITY

Team SSC is positioned for success in all relevant production capabilities, including facilities, processes, plans, people and suppliers. MMC's climate-controlled Aluminum Center of Excellence is purpose-designed for the efficient, high-quality series production of aluminum vessels. The highly trained ACE workforce has extensive experience in aluminum construction and one of the best safety records in the industry. The use of component manufacturing techniques, modular construction and pre-outfitting has raised the bar on aluminum ship production, as evidenced by the company's exceptional performance in delivering the U.S. Coast Guard RBM.



## INTEGRATION OF PROVEN TECHNOLOGIES

The Team will use proven relevant technologies and DoD-fielded technologies ready for SSC integration, and employ state-of-the-technology modeling and simulation software in the design stages. A wide range of existing technologies are applicable to the SSC, including innovations in drivetrain integration, heavy-lift propulsion, composite structure design and repair, propulsor and engine performance and C4N solutions.



## PROVEN RISK MANAGEMENT CAPABILITIES

The Team has in place sophisticated processes and procedures for risk identification, mitigation and tracking, and has ISO-certified integrated processes across engineering, purchasing, production and program management.



## BEST PRACTICES IN PROGRAM MANAGEMENT

Team SSC will apply Best Practices with discipline to yield positive, predictable results in all areas key to SSC success. This includes staffing, organization, toolsets, protocols, dashboards and metrics. The Team has unique combined capabilities, an outstanding track record on a wide range of defense contracts, and demonstrated synergy in worldwide integrated logistics. It brings a proven management structure with support from world-class companies of impeccable credentials.



## FOCUSED ON TOTAL OWNERSHIP COST

The central team goal is delivering the lowest total ownership cost to the Navy, including lower acquisition, maintenance and related costs throughout the 30-year projected life of the SSC. MMC's lean manufacturing experience and rigorous standards of quality control – down to the last bolt – ensure a cost-effective, high-performance craft designed for the rugged conditions and extreme environments in which it will operate. Innovations in corrosion control and lessons learned in LCAC maintenance translate into longer life and lower costs.



## INTEGRATED LOGISTICS AND TRAINING

Team SSC brings unmatched ILS experience, maximizing supply-chain efficiency and cost control. The Boeing SSC flight simulator facility provides realistic command station simulation. Packaged in portable, virtual command station training modules, it results in shorter crew training time and lower training cost.

## MISSION OBJECTIVES

**More Affordable:** The total cost of the SSC program extends far beyond development, design and acquisition costs. Total ownership cost, through thousands of service hours and hundreds of missions, is the measurement.

Team SSC has the people, facilities and experience in all disciplines necessary to reduce total ownership cost, and that is our focus. From the integration of existing technologies into SSC design, to the use of cutting-edge systems engineering, to our lean aluminum manufacturing and modular construction expertise — even to the reduction in training costs via use of sophisticated command station simulators — Team SSC is committed to cost-effective, long-term solutions.

**Superior Operational Availability:** Team SSC understands that the variety of extreme environments in which the SSC will operate dictate that quality is essential in every detail of design and construction. Oceaneering experience gained in LCAC SLEP has led to numerous design improvements that will make the SSC significantly easier and much less expensive to maintain. Innovations in drivetrain technology, combined with breakthroughs in composite structures and corrosion control, will reduce downtime, increase service life and set new standards of craft availability. Finally, the Team's demonstrated ability at worldwide supply-chain management, logistics and in deploying high-capability maintenance teams results in fast, reliable total global life-cycle support.



**Lowest Total Risk:** Four world-class companies with distinguished reputations and impeccable credentials have teamed for this mission. The companies have been designing, delivering and supporting hovercraft and SSC-relevant machinery and C4N Systems since LCACs were last designed more than 30 years ago, and last delivered in 1998. They bring extraordinary expertise and some of the best engineering minds on the planet, and a track record of delivering on time and within contracted costs on a wide range of large, complex defense contracts. Team SSC is armed with a host of detailed program tracking and risk management processes, and experienced managers focused on DoD customer satisfaction. Each company is a pillar of financial strength and stability.

Team SSC is positioned in every phase of Ship to Shore Connector design and production, including facilities, processes, plans and people. We are pledged to apply Best Practices in all interactions, are committed to foster customer involvement, and are uncompromisingly bound by integrity in our every action. In doing business with Team SSC, there is managed low risk, planned customer satisfaction, and focused warfighter support.

Consider the advantages:

- Oceaneering's real-world experience with LCAC maintenance and SLEP upgrade integration to address issues of corrosion control, vibration reduction, and the top-25 LCAC R&M design improvements;
- Boeing's high-technology readiness Propulsion Drivetrain and C4N innovations applicable for SSC, their extensive composite materials expertise, their advanced rotorcraft technology and drivetrain innovations, their sophisticated cockpit design, and their ability to provide total global life-cycle training and support;
- Griffon Hoverwork's state-of-the-practice hovercraft design, manufacturing, and worldwide support expertise;
- Marinette Marine's lean manufacturing experience, their climate controlled facilities, and their current aluminum craft fabrication expertise.

We'd like to tell you more about Team SSC's relevant expertise and about our plans to deliver an exceptional Ship to Shore Connector. Please visit [www.ship2shoreconnector.com](http://www.ship2shoreconnector.com) for additional information.



*The varied defense systems delivered by Team SSC lay the foundation for the quality, reliability, and state-of-the-art systems integration that will be built into the Ship to Shore Connector.*





MARINETTE MARINE  
BOEING  
OCEANEERING  
GRIFFON HOVERWORK

[www.ship2shoreconnector.com](http://www.ship2shoreconnector.com)