Teledyne Brown Engineering is under contract with the United States Special Operations Command (USSOCOM) to design, develop, test, manufacture, and sustain the Shallow Water Combat Submersible (SWCS), a replacement system for the current SEAL Delivery Vehicle.

The SWCS System is a manned combat submersible vehicle specifically designed to insert and extract Special Operation Forces in high-threat areas. USSOCOM oversees these elite military tactical teams from the Army, Air Force, Navy, and Marine Corps.

Teledyne successfully developed a full-scale interior mockup of the SWCS vehicle and provided hullform models and a demonstration of the system’s functionality under a Phase One Critical Item Development.

**Teledyne’s Role**
- Design, Analysis, and Documentation of the SWCS
  - Mechanical and electrical design
  - Control system design
  - Ballast system design
  - Breathing air system design
  - Software design
  - Sensor interface design
- Human factors design
- Structural analyses
- Reliability analyses
- Provisioning analyses
- Manufacture of Components and Subsystems
  - Metal machining and forming
  - Composite fabrication
  - Electronics fabrication
  - Subsea cable fabrication
- Assembly and Integration of the Complete SWCS
- Testing of the SWCS System
  - Component level
  - Subsystem level
  - System level
- In-water testing
  -- Controlled water
  -- Open water
  -- Utilizes Teledyne and customer dive teams
- Contractor Logistics Support
  - Organizational level
  - Depot-level repair and overhaul
  - Part sparing and supply

**Navy Qualifications**
- P-9290 Deep Submergence System (DSS) Certification in Process
- NAVSEANOTE 5000 – Activities Authorized – Under Evaluation.
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