

## Case Study

### C4ISR Services

#### Mission Success: Communications Broadband Satellite Program Communications Antenna Installation Abroad the HSV-2 Swift

**Client:**  
U.S. Navy

#### Summary of Core Activities:

- Urgent task to install Commercial Broadband Satellite Program Antenna on the HSV-2 Swift to support the ship's aggressive deployment schedule
- Planning done using red line drawings from a different class of ship and hand sketches for foundation work.
- Quality project completed quickly and safely.
- SOVT began on time and equipment light off was flawless.

VT Group acted as a key contributor in allowing the USS Swift to convert from a commercial vessel to a Navy High Speed Vessel (HSV). As a civilian craft, the Swift was equipped with standard HF/UHF/VHF communications equipment and to support its military missions the Swift was equipped with numerous SATCOM communications devices and GPS navigation.

As part of the Swift's conversion from a civilian to military craft, a helicopter flight deck was added, the vehicle deck was strengthened to accommodate military vehicles and the Swift was equipped with the capacity to launch small boats as well as unmanned, remotely operated submersibles. The HSV-2 Swift is now equipped with a highly automated ships control system, which not only enables the ship to operate effectively with only a crew of 42, but has also enabled the ship to completely give up its dependence on paper navigational charts. The Swift is currently the only ship in service with the U.S. Navy certification for electronic navigation.

Some of our delivery orders (DO) follow:

- A requirement to load software on the Non-Secure Internet Protocol Router (NIPR) and Secure Internet Protocol Router (SIPR) servers in the lab to allow testing prior to delivery on the USS Swift. VT Group provided all testing services, installation methods, technical assistance and all final documentation.
- Installation, System Operational

Verification Test (SOVT) and Training of Commercial Broadband Satellite Program (CBSP) System on the USS Swift. This work effort included tasks such as installation using Government Furnished Sketches.

- Perform installation, SOVT, load software and conduct familiarization training of a version (2) Casualty Reporting System (CASREP). Services provided on this DO included installation, cabling, electrical, pre in-service testing services, SOVT, post installation support services, familiarization training and final documentation package.
- These delivery orders revenues were more than \$2.8M.

*"I would like to commend your team tasked with the recent installation of the CBSP communications antenna aboard the HSV 2 Swift. The team assigned was completely self-contained requiring little help from shipboard personnel. Planning, installation and clean-up was carried out professionally and in a timely manner. Workmanship was excellent. We were well informed of evolutions such as hot work, electrical ties, and crane work so as to cause little interruption to ship operations. Everyone was respectful and courteous. It was a pleasure to work with VT [Group] and I will not hesitate to suggest your company should the Swift require assistance in the future."*

—James W. Kelley, Chief Engineer, HSV 2 Swift



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