By Light SEWP VI Ordering Guide

BY LIGHT PROFESSIONAL IT SERVICES LLC

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CATEGORY A CONTRACT

80TECH26D0517

CATEGORY B CONTRACT

80TECH26D0517

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SEWP OVERVIEW

NASA's Solutions for Enterprise-Wide Procurement (SEWP) VI is a multi-award Government-Wide Acquisition Contract (GWAC) suite that enables NASA and other Federal agencies to efficiently acquire mission-critical Information Technology, Communications, and Audio-Visual (ITC/AV) solutions and services through a diverse set of contracts spanning multiple business sizes and offerings. Agencies may use SEWP VI when SEWP solutions meet technical requirements and represent best value.

SEWP VI is designed to provide current, interoperable ITC/AV solutions and services; expand access to cloud, managed, and shared services; and streamline procurement through efficient, low-burden processes. SEWP's customized reporting streamlined procurement processes, innovative applications, premier customer service, acquisition insight and government/industry partnership deliver best-in-class value for the Federal government.

Using the SEWP online Quote Request Tool is the recommended method to assist in this activity and to augment the required decision documentation. The SEWP Quote Request Tool (QRT) will automatically include the Contract Holders within a selected Group or based on a suggested source.

More information on SEWP VI is available at: NASA SEWP Home.

SEWP CATEGORIES

Category A – Product Solutions: ITC/AV hardware and software (including cloud-based solutions) plus product-based services such as installation, integration, testing, training, and maintenance.

Category B – Enterprise-wide Strategic Solutions: Enterprise approaches to improving ITC/AV infrastructure, including cloud services, managed services, and shared services (e.g., agency-wide help desk ticketing systems).

Category C – Mission-based Services: ITC/AV services such as custom programming, telecommunications and network operations, engineering/design, data processing/analysis, hosting, ITC/AV management and consulting/education, digital government, and cybersecurity/security systems services.

FAIR OPPORTUNITY

In alignment with FAR 16.505(b)(1), this multiple-award contract requires that all awardees receive a fair and equitable opportunity to compete for individual orders exceeding $10,000. Except where a formal exception is documented and approved under FAR 16.505(b)(2), ordering offices must issue a clear statement of requirements and unbiased selection criteria to all eligible contract holders, ensuring fair consideration of all submitted offers.

ABOUT BY LIGHT

By Light Professional IT Services LLC, headquartered in McLean, Virginia, is a leading provider of advanced technology solutions delivering cyber and warfighter training platforms for Defense and National Security missions. The company operates two divisions—Cyber and Modeling, Simulation & Training — providing advanced cyber mission environments, synthetic training systems and AI-enabled live training that prepare forces for modern conflict. These same environments support the development and testing of ground and air autonomous systems, backed by U.S.-based manufacturing that onshore allied technologies into domestic production. By combining mission expertise with cutting-edge commercial technologies and an expanding portfolio of advanced platforms, By Light helps defense organizations predict, prepare, and prevail with greater speed, realism, and operational advantage. For the latest information on By Light's portfolio of products, solutions, and commercial capabilities, visit bylight.com.

Our proven methodology and standards-based approach ensure customers receive superior, effective solutions delivered on time and within budget. We leverage a Capability Maturity Model Integration (CMMI) Development (CMMI-DEV) Level 3 appraisal;

International Organization for Standardization (ISO) 9001:2015, ISO / International Electrotechnical Commission (IEC) 20000-1:2018, ISO/IEC 27001:2013, IEC 27001: 2013 and ISO 27001:2022 certifications; a Cybersecurity Maturity Model Certification (CMMC) Level 2 Certification assessed by a Certified Third-Party Assessor Organization (C3PAO); continuous alignment to the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBoK®); and Information Technology Infrastructure Library (ITIL) Foundations for service quality and continual process improvement. These credentials and structured best practices form the backbone of our ability to execute and exceed customer expectations.

BY LIGHT OFFERINGS:

CYBER OPERATIONS & TRAINING

- CENTS® - Cyberoperations Enhanced Network and Training Simulators
- LMS - Learning Management System
- CATI - Cyber Aptitude Typology Indicator
- Cyberspace Battlefield Operating System Simulation (CyberBOSS)
- Cyber Simulation Training for Impacts to Kinetic Environment (CyberSTRIKE)
- Local Guide for Intelligent Assistance (LOGIA)

IT SERVICES

- DevSecOps
- Software Modernization
- User Experience (UX) & Human Centered Design (HCD)
- Desktop & Help Center Operations
- SBManager™ - Enterprise Software for AWS
- Cloud & Managed Services

ORGANIZATIONAL TRAINING

- Live, Virtual, Constructive Training & Exercises
- Modeling & Simulation/Serious Gaming
- Battlespace Visualization and Interaction (BVI) Tool
- Trueshot AI™ Stinger Trainer
- Trueshot AI™ Mortar Trainer
- Aviation Distributed Virtual Training Environment (ADVTE)
- Tactical Environment Network (TEn)
- Autonomy (UAS/UGV)

SECURE COMMUNICATIONS

- By Light Integration Center (BIC)
- Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) - Satellite, Radio over Internet Protocol (RoIP), Integrated Communications Vehicle, Video Encoders & Global Broadcast Service

NETWORK & DATA PROTECTION

- EmberSec™ - Advanced Cybersecurity Services
- vCISO - Virtual Chief Information Security Officer

CYBER RANGES & TRAINING ENVIRONMENTS

By Light designs, develops, and operates on-premises, cloud-based, and hybrid cyber range platforms that support individual and collective cyber training, mission rehearsal, and experimentation. Our ranges can model realistic networks and include operationally relevant systems and endpoints, including Operational Technology/Industrial Control Systems (OT/ICS), Internet of Things (IoT), and Hardware-in-the-Loop (HWIL) integrations.

KEY CAPABILITIES

- Range architecture, engineering, deployment, and sustainment (on-prem, cloud, hybrid).
- Safe, controlled environments for threat emulation and defensive training.
- HWIL integration for realistic interaction with physical components and devices
- Expansion for OT/ICS/IoT and other networkable systems to reflect mission environments.
- Secure operations and lifecycle support focused on availability and performance.

REPRESENTATIVE SOLUTIONS

- CENTS: Customizable simulated virtual environment deployable on-prem or remotely; fully routable Layer 2 IP-based with HWIL support and realistic “grey space” Internet representation.
- RangeOS: Range orchestration engine enabling Cyber Range-as-Code—declarative, repeatable provisioning of environments on-demand; standardized reusable objects and self-testing/validation features.

CYBER/EW EFFECTS FOR LVC TRAINING

By Light provides cyber and electromagnetic warfare (EW) effects simulation that integrates into Live, Virtual, and Constructive (LVC) training ecosystems to create realistic, mission-relevant outcomes for both cyber and non-cyber trainees operating in denied and degraded information environments.

KEY CAPABILITIES

- Cyber/EW effects modeling integrated with LVC architectures and mission command ecosystems.
- Realistic representation of cyber and EW actions and impacts on mission systems.
- Federated integration patterns to reduce stovepipes and improve interoperability.

- Training support for coordination between operators and staff in multi-domain scenarios.

REPRESENTATIVE SOLUTIONS

- **CyberBOSS**: Cloud-centric cyber training architecture and effects simulator integrating cyber/EW operations models into LVC systems; supports high-fidelity effects (e.g., jamming, spoofing, data exfiltration) and coordination across systems.
- **CyberSTRIKE**: Injects simulated cyber/EW effects into shipboard Command, Control, Communications, Computers, and Intelligence systems (C4I) systems by monitoring/intercepting/modifying tactical data streams at the simulation-to-ship interface—emulating adversary interference, delay/suppression, spoofing/corruption, and channel disruption while preserving operational system authenticity.

VISUALIZATION, MISSION REHEARSAL & COLLABORATIVE PLANNING

By Light enables distributed leaders and teams to rehearse missions, visualize terrain, synchronize operations, and conduct After-Action Reviews (AARs) with flexible, low-footprint visualization tools that can be employed at the point of need.

KEY CAPABILITIES

- Distributed planning, rehearsal, and AAR on a shared Common Operational Picture (COP).
- Multi-modal visualization that scales from individual devices to team collaboration.
- Rapid scenario adaptation and integration through open architectures.

REPRESENTATIVE SOLUTIONS

- **BVI (Battlespace Visualization and Interaction)**: TRL 9, service-oriented platform with open Application Programming Interface/Software Development Kit (API/SDK) supporting mobile, web, mixed reality/virtual reality (MR/VR), floor projection systems, and augmented sand tables; supports rapid mission planning/course of action (COA) development, terrain visualization, distributed collaboration, and integration with tactical tools (e.g., Nett Warrior/Tactical Assault Kit (TAK)).

C5ISR NETWORKS & COMMUNICATIONS ENGINEERING

By Light designs and integrates secure, resilient communications solutions that connect systems from the core to the tactical edge, improve interoperability across diverse technologies and transport types, and enable the rapid information sharing required for C5ISR operations.

KEY CAPABILITIES

- Secure, resilient voice, video, and data connectivity across satellite, optical, wireless, radio, and terrestrial transport systems.
- Interoperability among disparate radio systems, devices, networks, sensors, and geographically distributed operational positions.
- End-to-end design, implementation, integration, optimization, and operational support for mission-critical communications infrastructure.

REPRESENTATIVE SOLUTIONS

- **LAN/WLAN Solutions:** Design, implementation, and optimization of 802.11, LTE, 5G, and next-generation wireless networks; integration of HF, UHF, and VHF communications systems; supporting infrastructure engineered for secure and resilient operations.

- **Satellite Communications (SATCOM):** Complex end-to-end SATCOM solutions enabling secure, reliable, and resilient global communications across geographically distributed mission environments.
- **5G and Next-Generation Wireless:** Private 5G standalone solutions supporting high-bandwidth data exchange from Internet of Things (IoT) devices and sensors; enhanced connectivity, capacity, and performance for evolving enterprise networks.
- **Voice, Video, and Data Networks:** Secure converged network solutions supporting reliable voice, video, and data services; resilient network security; trained network operations personnel prepared to manage increasingly complex communications environments.
- **Unified Command Networks:** Integrated command networks connecting disparate radio systems regardless of device type; software-enabled bridging across multiple systems and transport technologies; global information sharing delivered securely at mission speed.

MODELING, SIMULATION & SYNTHETIC TRAINING ENVIRONMENTS

By Light develops and integrates high-fidelity modeling and simulation systems that support training, experimentation, and analysis across domains—enabling realism, interoperability, and scalable event execution.

KEY CAPABILITIES

- LVC integration and interoperability using standard simulation protocols (e.g., Distributed Interactive Simulation (DIS), High Level Architecture (HLA))
- Exercise planning, scenario development, event execution support, and AAR integration
- Constructive simulation for multi-domain operations and accelerated analysis
- High-fidelity Intelligence, Surveillance, and Reconnaissance (ISR) synthetic environments for distributed mission training

- Reconfigurable collective trainers and aviation/aircrew simulation solutions

REPRESENTATIVE SOLUTIONS

- **OpSim (Operational Simulation)**: High-performance constructive simulation supporting integrated cyber and kinetic Multi-Domain Operations (MDO); automated forces with human-in-the-loop (HITL) interventions; terrain reasoning; plan import; user-editable pedigreed datasets; accelerated runtime for experimentation.
- **ADTVE (Aviation Distributed Virtual Training Environment)**: Persistent distributed training network connecting geographically separated aviation training devices over government networks using encrypted protocols, enabling multi-site virtual training events.
- **TEn / SOFTAC (Tactical Environment Network / Special Operations Forces Tactical)**: Synthetic combat ISR environment stimulus supporting weapons, sensors, electronic countermeasures (ECMs), and aviation threat training with data-driven, user-tailorable behaviors and HLA gateway integration.

DIGITAL ENGINEERING & MODERNIZATION (DIGITAL SERVICES)

By Light provides end-to-end digital services to design, deliver, secure, and sustain mission software and IT systems using modern delivery methods and disciplined operations.

KEY CAPABILITIES

- **Software Engineering**: HCD, Agile delivery, automated testing, monitoring built-in
- **DevSecOps**: automated pipelines for build/test/deploy with security integrated throughout the lifecycle
- **Cloud & Managed Services**: migration, rationalization/integration, cloud management/monitoring, cloud-based internet isolation (CBII)

- **Cybersecurity Support**: security assessments, vulnerability and risk identification, mitigation planning and implementation support
- **Operations & Maintenance (O&M)**: preventive maintenance, continuous monitoring, incident response, performance optimization
- **Service Desk / Help Desk**: scalable end-user and system support models

REPRESENTATIVE SOLUTION

- **LOGIA (Local Guide for Intelligent Assistance)**: Secure HITL AI-assisted workflow to accelerate courseware creation and modernization; supports locally hosted and government cloud AI models; engineered for strict project-level separation; aligned to Modular Open Systems Approach (MOSA) principles.

CUSTOMER SUPPORT

Customers should contact the SEWP VI Program Manager (PM), Lance Rasmussen, at lance.rasmussen@bylight.com, to:

- Obtain quotes for hardware, software, or services
- Request post-delivery support (including installation coordination, basic and extended warranty, technical support, software support, and other post-delivery issues)
- Troubleshoot a problematic order

RELEVANT LINKS

- **SEWP VI**: https://www.sewp.nasa.gov/sewpvi/
- **Corporate Web Page**: https://bylight.com/