

*Swift & Staley Inc.***Exhibit A  
PERIOD OF PERFORMANCE AND SCHEDULE OF EVENTS**

<b>Event</b>	<b>Date</b>
RFQ Release Date	December 16, 2021
Deadline for Receipt of Written Inquiries	January 6, 2022
Written Responses Distributed	January 13, 2022
<b>Quote Due Date</b>	<b>January 21, 2022 5:00 PM</b>

*Swift & Staley Inc.*

**Exhibit B**  
**SCOPE OF WORK**

**QUOTE REQUIREMENTS**

The quote must include all of the following:

1. Include tax and shipping costs.
2. Provide lead time in quote.
3. Provide payment requirements (e.g., down payment).
4. Note any exceptions to the specifications that cannot be met or provided.

**SHIPMENT**

The Vault Type Room (VTR) will be delivered to the Department of Energy (DOE) Paducah Gaseous Diffusion Plant at the following address.

5500 Hobbs Road  
Kevil, KY 42053

**SPECIFICATIONS**

The vendor shall design, construct, and deliver a modular VTR in accordance with DOE Order 473.1A and meets the following specifications.

**General**

1. Net floor area of 1,000 square feet with provisions for four 6x8 work spaces
2. No windows or false ceilings
3. Electrical power 3-phase 208/120V AC
4. All electrical components must be UL listed
5. Fiber optic lines
6. LED lighting
7. Emergency exit lighting
8. Two electrical outlets provided at each work station
9. Communication drops at each work station – Two duplex multimode fiber optic drops with female LC connectors, and two Category 6 RJ-45 copper drops shall be installed at each workstation
10. Heating, Ventilation, and Air Cooling System (HVAC)
11. Design must meet all local building standards
12. Drawings must have Kentucky Professional Engineer stamp
- 13. Submit design drawings and specifications for review/approval prior to construction**
- 14. Vendor shall assist in installation and testing after delivery**

## Construction

1. The perimeter walls, floors, and ceiling must be permanently constructed and attached to one another. Walls that constitute exterior barriers must extend from the true floor to the true ceiling unless equivalent means are used to provide evidence of penetration of the security area or access to the security interest being protected.
2. The walls, floor, ceiling and door and door frame must be constructed of materials which provide comparable penetration resistance.
3. All construction must be done in a manner that provides visual evidence of unauthorized penetration. Evidence of unauthorized penetration may consist of damaged surfaces, missing paint, and suspicious patching inconsistent with surrounding finishes.
4. Floor and wall construction materials must offer resistance to and evidence of unauthorized entry into the VTR.
5. For floors and walls, if insert type panels are used, a method must be devised to prevent their removal without leaving visual evidence of tampering.
6. Perimeter doors must be of wood or metal.
7. Wooden doors must be of solid core construction, 4.445 centimeters (1.75 inches) thick, or at a minimum faced on the exterior side with at least 16 gauge sheet metal.
8. Hardware must be fastened in such a way to reveal or preclude surreptitious removal and to ensure visual evidence of tampering.
9. Hardware accessible from outside the area must be peened, pinned, brazed, or spot welded to preclude removal.
10. Doors that have door louvers, baffle plates or service panels, or similar openings must be secured with 18 gauge expanded metal or wire mesh fastened inside the VTR to preclude unauthorized entry.
11. When doors are used in pairs, an astragal or mullion must be installed where the doors meet. Both doors must be locked/secured.
12. Emergency egress doors (when not used for ingress) must be locked (level I lock not required) in accordance with National Fire Protection Association (NFPA) 101 *Life Safety Code* and have no exterior hardware.

## Fire Suppression System

1. Suppression system – An approved suppression system shall be installed per NARA and NFPA 13.
2. Fire Alarm system - An approved fire alarm system shall be installed per KBC 907.2 and NFPA 72. Include a Keltron LS NET9000 Ethernet/IP Alarm Transceiver and an Edwards FACP iO1000.
3. Emergency Lighting – Shall be installed per NFPA 101.

### **Vault Door Locks**

Door Locks must meet Federal Specification FF-L-2740B, Amendment 2, Locks, Combination, Electromechanical and Federal Specification FF-L-2890C, Amendment 3, Lock Extensions (Pedestrian Door Lock Assembly Preassembled, Panic, and Auxiliary Deadbolt).

### **TEMPEST**

The fiber and copper drops shall comply with Red/Black isolation as outlined in the Committee on National Security Systems Tempest guidance. At each workstation, there will be two duplex fiber optic drops and two RJ-45 copper communication drops. The fiber optic drops and copper drops shall be in separate boxes spaced a minimum of 5 inches apart. The fiber optic cabling and copper cabling shall be run in either separate conduit or a shared divided metal raceway within the structure. There will be two communication cabinets installed in the room. These two cabinets shall be mounted on a wall and separated by a minimum of 24 inches. The cabinets will be a 19 inch rack that are 15-U high and have a depth of 24 inches. The fiber optic cabling shall be run and terminated on a patch panel in the red 19 inch rack with female LC connectors, while the copper communication lines will be terminated on an RJ-45 patch panel utilizing T568-B wiring in the black cabinet. Tempest rated AC power line filtering shall be added as required. The filters shall be individual and in close physical proximity to the rack and workstations as needed. The filters shall be rated for a minimum of 120 VAC, single phase, 60 Hz, minimum 20 Amps per circuit. Filtered AC power wiring shall be run in separate conduits from other unfiltered power sources back to the breaker panel. A public address amplifier shall be mounted in the black cabinet with capabilities for either a high level 70 volt audio input or low level input. The amplifier power will be capable of driving a minimum of two speakers. Speakers and speaker wiring will be routed in conduit as needed and will be appropriately spaced from any red cabling.

### **Automated Access Control (AACS)**

AACS must be installed upon delivery using the following hardware or an approved equal. The AACS will be incorporated into the existing Velocity system on-site.

1. Hirsch/Identiv
  - a. MX-2-N3-FICAM      AACS controller
  - b. AEB8                      Alarm Expansion Board
  - c. SBMS3-L2HSS      High Security BMS
  - d. 8332ABTRPMA      Badge reader
  - e. MB5                      Outdoor reader enclosure
  - f. RCR-50                  Motion Detector

### **Intrusion Detection System (IDS)**

IDS will be incorporated into the existing Velocity system on-site.

1. IDS must be installed in accordance with manufacturer's specifications.
2. IDS equipment e.g., terminations, field processors, must be housed in a locked enclosure.
3. Balanced Magnetic Switch (BMS) must be used on each door or movable barrier to allow detection of attempted or actual unauthorized access and meet UL 634 requirements for a level 2 high security switch.

4. IDS sensors must detect movement along accessible paths within the vault/VTR or surround the security interest being protected.

**Video Assessment and Surveillance Systems (VASS)**

System will be incorporated into the existing VMS on-site.

1. Provide an exterior camera at each door.
  - a. Use Axis Q3615-VE or an approved equal.
2. Function effectively in all environmental conditions and under all types of lighting conditions.
3. Provide visual display capabilities.