LEV VORTAC Replacement – Statement of Work (SOW)

Project: LEV VORTAC Site Replacement **Location:** Leeville, Louisiana (29°10'30.95"N, 90°06'14.29"W)
Agency: Federal Aviation Administration (FAA)
Contract Type: Construction – Navigation Facilities
Period of Performance: NTP + 60 Days to December 31, 2027

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1. Background

The LEV VORTAC facility, located approximately 8.9 miles west of Grand Isle, Louisiana, was severely damaged by Hurricane Ida and subsequently demolished. The FAA requires the construction and installation of a new VORTAC facility at the same location. The contractor shall install a complete VORTAC system in accordance with FAA engineering drawings, specifications, and standards.

The contractor shall comply with all applicable FAA procedures, federal regulations, state laws, and local jurisdiction requirements.

2. Scope of Work

The contractor shall provide all labor, materials, equipment, tools, transportation, and supervision necessary to construct and install the new LEV VORTAC facility. Work includes, but is not limited to, the following:

2.1 Site Preparation and Surveying

- Provide qualified surveying personnel to establish horizontal and vertical control and lay out the site.
- Install and maintain erosion control measures per plans and specifications.
- Restore all disturbed areas to pre-construction condition or better.

- The contractor will be responsible for the installation of approximately 30 feet of new road work required to support site access and construction activities.

2.2 Utilities and Conduit Systems

- Install duct/bore for primary power from the utility company's connection point to the facility (utility company will install power cables).
- Install duct/bore for fiber optic cable as shown on the drawings.
    - Existing fiber duct is present between LA-1 and the "T".
    - Contractor shall furnish and install new fiber duct between the "T" and the VOR facility.
- Furnish and install fiber optic cable per plans and specifications.
- Furnish and install secondary conduit and wiring between the utility transformer and service entrance switch (utility company will install transformer and primary wiring).
- Furnish and install conduit for VOR and TACAN systems as indicated on the drawings.
- Furnish and install conduit and cabling for the Earth Electrode System (EES) and grounding network.

2.3 Foundations and Structural Work

- Furnish and install precast/pre-stressed concrete piles and reinforced concrete mat foundation.
- Furnish and install structural steel framing for:
    - Elevated equipment shelter platform (deck elevation 32'-5")
    - Signal counterpoise
    - Stairs and access structures

2.4 Equipment Shelter and Mechanical/Electrical Systems

- Furnish and install new prefabricated equipment shelter per plans and specifications.
- Furnish and install a new 1,000-gallon propane fuel tank, appurtenances, and piping between the tank and equipment shelter.
- Furnish and install a new engine generator, including all accessories, ductwork, supports, and connections.
- Furnish and install battery rack and associated components (batteries are Government-Furnished Material).

2.5 Antennas and Navigation Equipment

- Install 16 VOR monitor antennas (GFM) and antenna assemblies (GFM).
- Install fiberglass VOR antenna teepee (GFM).
- Install TACAN antenna (GFM).
- Furnish and install fiberglass lattice mast for TACAN monitors (GFM), including conduits and cabling.

2.6 Quality Control and Testing

- Implement and maintain a Quality Control Plan ensuring compliance with all contract requirements.
- Conduct all required tests, checks, and verifications to demonstrate compliance with FAA specifications.

3. Specifications

All work shall be performed in strict accordance with the engineering drawings, FAA specifications, and the Site Detail Specification document. The contractor shall furnish all labor, equipment, materials, supplies, and transportation required to complete the project.

Specification sheets and engineering packages are provided as attachments.

4. General Requirements

- All materials must be approved by the FAA prior to installation.
- Contractor shall stage work to minimize system outage time.
- All shutdowns and cutovers must be coordinated with FAA Air Traffic Management with a minimum of 30 days' notice.
- Contractor shall repair any damage caused by their operations at no cost to the government.
- Contractor shall maintain liability insurance meeting or exceeding local requirements.
- Contractor shall provide a Safety and Security Plan prior to beginning work, including accident prevention procedures, emergency response procedures, and contact information for the nearest medical facility.
- Contractor's Superintendent must be onsite at all times during work and must maintain reliable communication capability with the FAA.

5. Work Hours and Conditions

- Contractor shall comply with all laws and regulations applicable to work on State of Louisiana property and landowner requirements.
- Standard work hours: **7:00 AM – 5:30 PM, Monday through Friday**.
- Weekend or overtime work is permitted only to recover schedule delays and must be coordinated with the FAA COR.
- Daily work activities must be reported and coordinated in advance with the onsite FAA COR.
- All work is subject to inspection and approval by the FAA Resident Engineer.

6. Key Personnel Requirements

The contractor must employ personnel who meet the following requirements:

- **Superintendent (required on-site at all times during work) with:**

    - Resume demonstrating at least five (5) years of recent construction project experience of similar scope and magnitude.
    - Resume demonstrating at least ten (10) years of experience serving as a construction Superintendent.
    - Resume must list job positions held, companies, and number of years in each position.
- **Safety Officer with experience preparing site-specific safety plans**
    - Resume demonstrating at least three (3) years of experience preparing and implementing site specific construction safety plans.
    - Resume must list relevant certifications (e.g., OSHA 30 or equivalent).
- **Quality Control Manager**
    - Resume demonstrating at least three (3) years of experience performing quality control duties on construction projects of similar scope and complexity

The contractor must provide proof that the required key personnel meet these requirements. If the contractor replaces any approved key personnel during the project, they must provide proof that the replacement personnel meet the specified requirements. The Superintendent must be on site at all times during active work operations. The Superintendent will direct the work, coordinate with airport operations, ensure compliance with the approved Safety Plan, and oversee all subcontractors and construction activities.

7. Location

LEV VORTAC Facility Coordinates: **29°10'30.95"N, 90°06'14.29"W** Approximately 8.9 miles west of Grand Isle, Louisiana.

8. Government-Furnished Equipment (GFE)

The following equipment will be provided by the government for installation, handling, and protection by the contractor. This list is derived from FAA Form 4650-12 and 4650-13.

8.1 GFE Equipment Listing

Qty	Equipment Type	Serial No.	Description
1	CA-4620	48	LPTA Cabinet (rack)
1	FA-10369 & /2	043	TACAN LPTA ACU
1	STAF01-95-C-0005	124	Suncraft DC-to-DC Unit
1	FA-9996/3A	647	TACAN Cabinet (rack)
1	FA-9996/3.6	486	TACAN Power Supply
1	FA-9996/3.4	647	TACAN Power Amplifier
1	FA-9996/3.3	647	TACAN Transponder
1	FA-9996/3.1	647	TACAN Monitor

Qty	Equipment Type	Serial No.	Description
1	FA-9996/1A	675	Power Supply Cabinet (rack)
1	FA-9996/1.1A	674	VORTAC Battery Charger PS-38
1	FA-9996/1.2	879	Power Conditioner
1	FA-9996/1.3	881	Standby Power Inverter
1	FA-9996/2	872	VOR Cabinet (rack)
1	FA-9996/2.1	872	VOR Transmitter
1	FA-9996/2.2	873	VOR Goniometer
1	FA-9996/2.3	879	FCPU
1	FA-9996/2.4	873	VOR Monitor
1	FA-10369/1	0145	LPTA Antenna Unit
1	FA-10326/1	0513	TELCO Demarc System (Property Tag A81871)

9. Deliverables

- Safety and Security Plan
- Quality Control Plan
- Daily activity reports
- Test results and compliance documentation
- As-built drawings
- Manufacturer documentation and equipment certifications
- Final project closeout package

10. Period of Performance

Work shall begin no later than **60 days after Notice to Proceed**. The project completion date is **December 31, 2027**.

11. Submittal Requirements

The contractor shall provide all required submittals as identified in the *Final Design Submission Document*, Section 1.24, pages 16–17, Volume 1 of 1. Submittals must be approved prior to procurement or installation of materials.