

ATTACHMENT J1

Fort Smith Municipal Airport (ANG) Electric Distribution System

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J1 Fort Smith Municipal Airport (ANG) Electric Distribution System

J1.1 Fort Smith Municipal Airport (ANG) Overview

The 188th Fighter Wing (FW) of the Arkansas Air National Guard occupies 110 acres of leased land on the Fort Smith Municipal Airport, located approximately 2 miles southeast of Fort Smith, Arkansas. The mission of the 188th FW is to execute directed fighter missions designed to destroy enemy forces, supplies, equipment, communications systems, and installations with all types of tactical weapons. The unit currently flies the F-16 Falcon. The 188th FW occupies 3 administrative, 46 industrial, and 3 services buildings totaling approximately 332,102 square feet with 320 full-time personnel. A unit training drill is conducted once a month and results in a surge of up to 1,000 personnel.

J1.2 Electric Distribution System Description

J1.2.1 Electric Distribution System Fixed Equipment Inventory

The Fort Smith Municipal Airport (ANG) electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, utility poles, and switches. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

?? Airfield Lighting.

?? Parking Lot Lights.

?? Street Lights.

?? A portion of the system is already privatized--OGE owns the electrical service beginning at a power pole located approximately 480 feet north of the north gate on Dike Road and continuing underground to and including an area north of Dike Road known as "Tent City".

J1.2.1.1 Description

The electrical system at Fort Smith Municipal Airport (ANG) consists of both 1-phase and 3-phase overhead and 3-phase underground circuits rated at 15 kV. The underground circuits are 3 to 4 feet deep and are protected by galvanized steel conduit. Power is provided by Oklahoma Gas & Electric

(OGE). It is delivered and distributed at 12 kV through a radial (12/7.2 kV) configuration. There are approximately 5,000 linear feet of overhead and 3,200 linear feet of underground circuits. Multiple branches feed 16 three-phase pad mounted transformers ranging from 100 to 500 kVA and 17 single-phase transformers ranging from 15 to 100 kVA. The system includes 38 wood utility poles, four utility manholes, and one 600 Amp switch. The system includes approximately 2600 lf of empty five-inch galvanized buried conduit. Base personnel indicate the system capacity is adequate to meet current and projected demands.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Fort Smith Municipal Airport (ANG) electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Fort Smith Municipal Airport (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits (copper)	AWG			
- 3 phase, 4 wire, 15kV, in conduit	#2	595	LF	1977
- 3 phase, 3 wire, 15kV, in conduit	#2	1570	LF	1997
- 3 phase, 3 wire, 15kV, in conduit	#2	1043	LF	1996
- Empty buried galvanized conduit	5 inch	1570	LF	1997
- Empty buried galvanized conduit	5 inch	1043	LF	1996
Overhead Circuits (copper)	AWG			
- 3 phase, 4 wire, conductor	#6	2332	LF	1955
- 3 phase, 4 wire, conductor	#6	1125	LF	1971
- 3 phase, 4 wire, conductor	#6	190	LF	1982
- 3 phase, 4 wire, conductor	#6	623	LF	1994
- 3 phase, 4 wire, conductor	#6	100	LF	1996
- 3 phase, 4 wire, conductor	#6	170	LF	1997
- 1 phase, 2 wire, conductor	#6	502	LF	1955
3 Phase, Transformers	Nom kVA	.		
Oil filled, pad mounted	100	3	EA	1986
Oil filled, pad mounted	150	1	EA	1988
Oil filled, pad mounted	225	1	EA	1982
Oil filled, pad mounted	225	1	EA	1996
Oil filled, pad mounted	225	2	EA	1996
Oil filled, pad mounted	300	1	EA	1970

Item	Size	Quantity	Unit	Approximate Year of Construction
Oil filled, pad mounted	300	1	EA	1978
Oil filled, pad mounted	300	1	EA	1982
Oil filled, pad mounted	500	3	EA	1970
Oil filled, pad mounted	500	1	EA	1988
Oil filled, pad mounted	500	1	EA	1989
1 Phase, Transformers	Nom kVA			
Oil filled, pad mounted	15	3	EA	1976
Oil filled, pad mounted	25	6	EA	1971
Oil filled, pad mounted	75	1	EA	1988
Oil filled, pad mounted	75	1	EA	1996
Oil filled, pad mounted	100	3	EA	1980
Oil filled, pad mounted	100	3	EA	1976
Utility Poles	Height (ft)			
Wood	45	20	EA	1955
Wood	45	8	EA	1972
Wood	45	2	EA	1982
Wood	45	1	EA	1985
Wood	45	4	EA	1994
Wood	45	1	EA	1995
Wood	45	2	EA	1997
Switches	Type			
600Amp/15Kv	4-way	1	EA	1996
Manhole	Type			
Pre-cast concrete	5'x5'x5'	4	EA	1997
Notes:				
AWG = American Wire Gauge				
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt -amperes				
KVA = Kilovolt -amperes				
FT = feet				

J1.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and Table 3 lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to

submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Electric Distribution System Fort Smith Municipal Airport (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Fort Smith Municipal Airport (ANG)

Description	Quantity	Location	Maker
None			

J1.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals, Drawings, and Records
Electric Distribution System Fort Smith Municipal Airport (ANG)

Qty	Description	Remarks
1	Electrical Utility System Maps (electronic copy)	AutoCAD Release Version 14

J1.3 Specific Service Requirements

The service requirements for the Fort Smith Municipal Airport (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement. Although the spare conduits are being turned over to the successful offeror, those conduits not currently used for electrical lines will be reserved for the exclusive use of the government. Additional conduits may be made available to the successful offeror at the discretion of the Contracting Officer.

J1.4 Current Service Arrangement

- ?? Provider: Oklahoma Gas & Electric (OGE)
- ?? Average Annual Usage (2000): 4,800,000 kWh
- ?? Maximum Monthly Use: 500,400 kWh
- ?? Minimum Monthly Use: 258,000 kWh
- ?? Peak demand: 1,168 kW

J1.5 Secondary Metering

J1.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J1.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Fort Smith Municipal Airport (ANG)

Meter Location	Meter Description
None	

J1.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13 Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J1.6 below.

TABLE 6
New Secondary Meters
Electric Distribution System Fort Smith Municipal Airport (ANG)

Meter Location	Meter Description
None	

J1.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters (if any). The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.
4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer.

System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J1.7 Energy Saving Projects

IAW Paragraph C.3 Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J1.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Fort Smith Municipal Airport (ANG) boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the Fort Smith Municipal Airport (ANG) electric distribution system.

J1.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Electric Distribution System Fort Smith Municipal Airport (ANG)

Location	Description
None	

J1.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Fort Smith Municipal Airport (ANG) electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 8
System Deficiencies
Electric Distribution System Fort Smith Municipal Airport (ANG)

Project Location	Project Description
None	

