

Ft Wayne IAP (ANG) Electric Distribution System

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J8 Ft Wayne IAP (ANG) Electric Distribution System

J8.1 Ft Wayne IAP (ANG) Overview

The 122nd Fighter Wing (FW) of the Indiana Air National Guard occupies 166 acres of leased land on the Fort Wayne International Airport (IAP), located approximately three miles south of downtown Fort Wayne, Indiana. The mission of the 122nd FW is to achieve and maintain the level of operational readiness that will provide trained and equipped combat-ready tactical units, capable of global deployment, ready for immediate integration into the active Air Force to assure air offense, air defense, or joint action with ground forces. The unit currently flies the F-16 Falcon. The 122 FW occupies five administrative, and 30 industrial buildings totaling approximately 423,000 square feet with 287 full-time personnel. A unit training drill is conducted twice a month and results in a surge of up to a total of 974 personnel. There are currently three funded projects that will affect the base in the future. The first is a project entitled “Replace Fuel Cell and Corrosion Control Facility” which has a planned start date of October 2001. The second is a project entitled “Repair of Base Roads”: realignment and construction of 4350 LF roadway including a new main entrance, planned bid date is 2001 with construction in 2002. The third is entitled “Construction of New Dining Facility/Medical Training Facility” which is ongoing with completion scheduled for September 2002.

J8.2 Electric Distribution System Description

J8.2.1 Electric Distribution System Fixed Equipment Inventory

The Ft Wayne IAP (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, ductbanks, 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

J8.2.1.1 Description

Power is provided by American Electrical Power and enters the base and is metered at one location. It is delivered and distributed at 11.47 (kV) through a looped system with some branches. The primary distribution system consists of approximately 2,300 linear feet of 3-phase overhead and approximately 8,800 linear feet of underground circuits rated at 15 kV. The underground circuits are in duct banks buried at an average depth of five feet and are marked with tracer wire. Multiple branches feed 26 three phase pad mounted transformers ranging from 50 to 1,000 kVA and four single phase transformers ranging in size from 10 kVA to 50 kVA. The system includes 16 wood utility poles, 10 switches used for the underground system, and 16 overhead fuses. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J8.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Ft Wayne IAP (ANG) electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Ft Wayne IAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG			
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	1465	LF	1978
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	1990	LF	1979
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	1035	LF	1976
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	105	LF	1980
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	960	LF	1985
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	610	LF	1987
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	425	LF	1990
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	690	LF	1993
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	715	LF	1998
3ph, 4w, 15kV, aluminum, in duct banks	#2/0	845	LF	1999
Overhead Circuits	AWG			
3ph, 4w, 15 kV	#2 ACSR	2280	LF	1980
Transformers	Nom kVA			
3ph, oil filled, pad mounted	50	1	EA	1979
3ph, oil filled, pad mounted	75	1	EA	1987
3ph, oil filled, pad mounted	150	1	EA	1997
3ph, oil filled, pad mounted	150	2	EA	1978
3ph, oil filled, pad mounted	150	2	EA	1999

Item	Size	Quantity	Unit	Approximate Year of Construction
3ph, oil filled, pad mounted	150	1	EA	2001
3ph, oil filled, pad mounted	150	1	EA	1980
3ph, oil filled, pad mounted	150	1	EA	1988
3ph, oil filled, pad mounted	150	1	EA	1993
3ph, oil filled, pad mounted	150	1	EA	1974
3ph, oil filled, pad mounted	225	1	EA	1999
3ph, oil filled, pad mounted	225	1	EA	1998
3ph, oil filled, pad mounted	225	1	EA	1953
3ph, oil filled, pad mounted	300	1	EA	1985
3ph, oil filled, pad mounted	300	1	EA	1977
3ph, oil filled, pad mounted	300	1	EA	1958
3ph, oil filled, pad mounted	300	1	EA	1953
3ph, oil filled, pad mounted	300	1	EA	1976
3ph, oil filled, pad mounted	300	1	EA	1985
3ph, oil filled, pad mounted	500	2	EA	1985
3ph, oil filled, pad mounted	500	1	EA	1999
3ph, oil filled, pad mounted	750	1	EA	1997
3ph, oil filled, pad mounted	1000	1	EA	1953
1ph, oil filled, pad mounted	10	2	EA	1985
1ph, oil filled, pad mounted	15	1	EA	1990
1ph, oil filled, pad mounted	15	2	EA	1985
1ph, oil filled, pad mounted	50	1	EA	1985
Utility Poles	Height (ft)			
wood	35	1	EA	1975
wood	40	9	EA	1980
wood	45	4	EA	1985
wood	50	2	EA	1990
Switches-(aboveground used for underground lines)	Type			
	3-way	1	EA	1999
	3-way	2	EA	1987
	3-way	5	EA	1979
	4-way	1	EA	1979

Item	Size	Quantity	Unit	Approximate Year of Construction
	4-way	1	EA	1997
Fuses-overhead	Type			
		16	EA	1990
Notes:				
AWG = American Wire Gauge				
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt -amperes				
ph – phase				
ACSR = Aluminum Conductor Steel Reinforced				
KV = Kilovolt				
FT = feet				
w = wire				

J8.2.2 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 Ft Wayne IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Ft Wayne IAP (ANG)

Description	Quantity	Location	Maker
None			

J8.2.3 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 Ft Wayne IAP (ANG)

Qty	Description	Remarks
1	Ft Wayne Master Plan Electrical 7 Mar 90, two sheets	AutoCAD Release Version 2000

J8.3 Specific Service Requirements

The service requirements for the Ft Wayne IAP (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement. The following requirements are specific to the Ft Wayne IAP (ANG) electric distribution system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

Although the duct banks are being turned over to the successful offeror, those ducts not currently used for electrical lines will be reserved for the exclusive use of the government. Additional ducts may be made available to the successful offeror at the discretion of the Contracting Officer.

J8.4 Current Service Arrangement

- ?? **Current Provider:** American Electric Power
- ?? **Average Annual Usage (2000):** 4,802,000 kWh
- ?? **Maximum Monthly Usage:** 473,000 kWh (September)
- ?? **Minimum Monthly Usage:** 342,000 kWh (November)
- ?? **Peak Demand:** 1,098 kW
- ?? **A railroad passes through the middle of the installation. This railroad averages about 34 trains per day. The permit for a railroad utility crossing is secured prior to construction and is granted by the state Public Service Commission.**

J8.5 Secondary Metering

J8.5.1 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 J8.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Ft Wayne IAP (ANG)

Meter Location	Meter Description
None	

J8.5.2 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 J8.6 below.

TABLE 6

New Secondary Meters
Electric Distribution System Ft Wayne IAP (ANG)

Meter Location	Meter Description
None	

J8.6 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.

J8.7 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.

J8.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Ft Wayne IAP (ANG) boundaries.

J8.9 Off-Installation Sites

No off-installation sites are included in the sale of the Ft Wayne IAP (ANG) electric distribution system.

J8.10 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 Ft Wayne IAP (ANG)

Location	Description
None	

J8.11 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 Ft Wayne IAP (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 Ft Wayne IAP (ANG)

Project Description
None