

Hancock Field ANGB Electric Distribution System

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J3 Hancock Field ANGB Electric Distribution System

J3.1 Hancock Field ANGB Overview

The 174th Fighter Wing, Hancock Field (ANGB) is located at the Syracuse-Hancock International Airport in Central New York State. It is approximately 5 miles north of the city of Syracuse in Onondaga County. The New York Air National Guard facilities at Hancock Field comprise a total of 356 acres of Fee-Owned land that was acquired from the city of Syracuse, NY in 1947. The 174th Fighter Wing population is currently authorized at 340 full time and increases to 1,178 total personnel on drill duty weekends that occur once per month. The base currently has approximately 52 facilities: 5 administrative, 6 services, and 41 industrial facilities, amounting to approximately 492,000 square feet. The base has no Military Family Housing or Unaccompanied/Transient Housing. A project is scheduled for award in September 2000 to construct a new Air Control Group Facility, Air Operations Squadron Facility, and an Aircraft Support Equipment and Storage Facility (net increase is 25,700SF). The project also includes infrastructure improvements as follows: install additional waterlines; replace fire hydrants; install new ductbanks; and place a portion of the overhead electrical distribution system underground. The 174th Fighter Wing is equipped with F-16 aircraft. Other tenants on the base include the Civil Air Patrol and Columbia College.

J3.2 Electric Distribution System Description

J3.2.1 Electric Distribution System Fixed Equipment Inventory

The HANCOCK FIELD ANGB 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, protective devices, utility poles, duct banks, switches, street lighting fixtures, and other ancillary fixed equipment. 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:

1. Airfield Lighting
2. Aircraft Arresting System
3. Street Lighting
4. Parking Area Lighting

J3.2.1.1 Description

Power is supplied to Hancock Field ANGB through one 13.2 kilovolt (kV) transmission line into the base owned metal enclosed, main distribution switchgear. The switchgear vault contains metering equipment, breakers, cables and bus work. Two (2) 13.2 kV breakers are housed in the switchgear cubicles. One 13.2 kV line feeds a 13.2/4.8 kV transformer. This arrangement allows power to be distributed throughout the base at two voltage levels (13.2 and 4.8 kV). The distribution system consists of approximately 11,600 LF underground and 8,700 LF overhead transmission lines, 18 three phase transformers ranging from 75 to 750 kilovolt amps (kVA), 31 single phase transformers ranging from 7.5 to 50 kVA, and 91 wooden utility poles and 9 pre-cast manholes buried four feet deep. There is also approximately 5,800 LF of concrete duct banks. The system components were installed between 1962 and 1997. The system is a Conventional Simple -Radial Distribution System.

J3.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Hancock Field ANGB electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Hancock Field ANGB

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG			
	#2	11,577	LF	1995
Overhead Circuits	AWG			
	#2CU	8,696	LF	1970
Transformers 3-Phase	Nom kVA			
Oil filled, pad mounted	150	3	EA	1995
Oil filled, pad mounted	150	1	EA	1986
Oil filled, pad mounted	225	1	EA	1995
Oil filled, pad mounted	225	1	EA	1996
Oil filled, pad mounted	300	2	EA	1995
Oil filled, pad mounted	300	1	EA	1997
Oil filled, pad mounted	300	2	EA	1988
Oil filled, pad mounted	300	1	EA	1982
Oil filled, pad mounted	500	2	EA	1993
Oil filled, pad mounted	500	1	EA	1988
Oil filled, pad mounted	750	1	EA	1995
Oil filled, pad mounted	75	2	EA	1995

Item	Size	Quantity	Unit	Approximate Year of Construction
Transformers 1-Phase		Nom kVA		
Pole Mounted	7.5	1	EA	1968
Pole Mounted	10	2	EA	1995
Pole Mounted	10	1	EA	1976
Pole Mounted	15	1	EA	1964
Pole Mounted	25	6	EA	1995
Pole Mounted	25	3	EA	1993
Pole Mounted	25	3	EA	1974
Pole Mounted	25	1	EA	1964
Pole Mounted	25	1	EA	1962
Pole Mounted	25	1	EA	1979
Pole Mounted	37.5	8	EA	1995
Pole Mounted	50	3	EA	1995
Utility Poles		Height (ft)		
Wood	35	91	EA	1970
Switches		Type		
Main Service Entry Interrupter Switches	15Kv/600A	2	EA	1995
Manholes		Type		
Pre-cast concrete	5x5x4	9	EA	1984
Electrical Duct Banks				
4 ea, 4" PVC in Concrete	12"X12"	5,788	LF	1984
Switch Gear Vault				
Metal 6' x 32' x 41'	6'x32'x41'	1	EA	1995

Notes:

AWG = American Wire Gauge
EA = each
LF = linear feet
Nom kVA = nominal kilovolt-amperes
ph = phase
v = volts
w = wire

J3.2.2 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 Hancock Field ANGB

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools
Electric Distribution System Hancock Field ANGB

Description	Quantity	Location	Maker
None			

J3.2.3 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 Hancock Field ANGB

Qty	Item	Description	Remarks
1	Map	Electrical Utility System Map electronic copy	AutoCAD Rel. Version 2000

J3.3 Specific Service Requirements

The service requirements for the Hancock Field ANGB electric distribution system are as defined in the Section C Description/Specifications/Work Statement.

J3.4 Current Service Arrangement

The current service provider is Niagara Mohawk Power Corporation (NMPC). The base used a total of 4,344 Mega Watt Hours (MWH) in 1999 that averaged 362 MWH per month with a peak usage of

470 MWH in the month of February of that year. There are no existing commitments or special service arrangements with NMPC.

J3.5 Secondary Metering

J3.5.1 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 J3.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Hancock Field ANGB

Meter Location	Meter Description
None	

J3.5.2 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 J3.6 below.

TABLE 6
New Secondary Meters
Electric Distribution System Hancock Field ANGB

Meter Location	Meter Description
None	

J3.6 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.

J3.7 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.

J3.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Hancock Field ANGB boundaries.

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the Hancock Field ANGB electric distribution system.

J3.10 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 Hancock Field ANGB

Location	Description
None	

J3.11 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 Hancock Field ANGB 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 Hancock Field ANGB

Project Location	Project Description
None	