

STRATTON ANG BASE Electric Distribution System

TABLE OF CONTENTS

STRATTON ANG BASE EL ECTRIC DISTRIBUTION SYSTEM.....I

J7 STRATTON ANG BASE ELECTRIC DISTRIBUTION SYSTEM..... 1

J7.1 STRATTON ANG BASE OVERVIEW..... 1

J7.2 ELECTRIC DISTRIBUTION SYSTEM DESCRIPTION..... 1

 J7.2.1 Electric Distribution System Fixed Equipment Inventory 1

 J7.2.1.1 Description..... 1

 J7.2.1.2 Inventory 2

 J7.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools 4

 J7.2.3 Electric Distribution System Manuals, Drawings, and Records 4

J7.3 SPECIFIC SERVICE REQUIREMENTS..... 5

J7.4 CURRENT SERVICE ARRANGEMENT..... 5

J7.5 SECONDARY METERING..... 5

 J7.5.1 Existing Secondary Meters 5

 J7.5.2 Required New Secondary Meters 5

J7.6 MONTHLY SUBMITTALS..... 6

J7.7 ENERGY SAVING PROJECTS..... 6

J7.8 SERVICE AREA..... 6

J7.9 OFF-INSTALLATION SITES 6

J7.10 SPECIFIC TRANSITION REQUIREMENTS..... 7

J7.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES 7

List of Tables

Fixed Inventory 2

Spare Parts 4

Specialized Vehicles and Tools 4

Manuals, Drawings, and Records..... 4

Existing Secondary Meters..... 5

New Secondary Meters..... 6

Service Connections and Disconnections 7

System Deficiencies..... 7

J7 STRATTON ANG BASE Electric Distribution System

J7.1 STRATTON ANG BASE Overview

Stratton Air National Guard Base is home to the 109th Airlift Wing and is located on the east side of the Schenectady County Airport, two miles north of the City of Schenectady and 12 miles west of Albany. The base has 39 buildings, amounting to approximately 353,000 square feet and occupies 122.21 acres of land on two holdings leased from Schenectady County. Most of the existing facilities are on the larger 105.86 acre main parcel while a Small Arms Firing Range and Rapid Runway Repair training facility are on the smaller south parcel. There are 526 full time personnel on base with a once a month drill weekend surge to 1,268 personnel.

J7.2 Electric Distribution System Description

J7.2.1 Electric Distribution System Fixed Equipment Inventory

The Stratton ANG Base 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, ductbanks, switches, 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:

- Airfield Lighting
- Parking Lot Lights
- Street Lights
- Ballfield Lights

J7.2.1.1 Description

The Stratton ANG Base Electrical Distribution System is Delta configured and distributed at 13.2 kVA. The system is primarily underground with service (approximately 7,800 linear feet) provided in a combination of ductbanks, conduit and direct bury wiring along with 1,100 linear feet of overhead circuits. The underground wiring was installed in 1995. There are 17 pad mounted

transformers that range from 45 to 1500 kVA installed between 1975 and 1999 and five pole mounted transformers rated from 75 kVA to 150 kVA and installed from 1961 to 1975.

J7.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Stratton ANG Base electric distribution system included in the sale.

TABLE 1

Fixed Inventory

Electric Distribution System Stratton ANG Base

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG			
- 3-4/0+#6 GROUND, 5kv	#4/0 CU	2,296	LF	1995
- 3-350 KCMIL, 600v, #3 grnd		610	LF	1995
- 4-500 KCMIL, 600v, #3 grnd		20	LF	1995
- 4-500 KCMIL, 600v, +1/0 grnd		120	LF	1995
- 3 #1 + #6 ground		185	LF	1995
- 3 #1/0 (5kv) + #6 ground		4,245	LF	1995
- 4 #3/0 (600v) + #6 ground		155	LF	1995
- 4 #3 (600v) + #8 ground		210	LF	1995
Electrical Duct Banks				
- Ductbank, 2 ea, 5" PVC in Concrete	12"x12"	1,460	LF	1995
- Ductbank, 2 ea, 4" PVC in Concrete	12"x12"	3,400	LF	1995
PVC Conduit	4"	4,730	LF	1995
PVC Conduit	1.5"	210	LF	1993
PVC Conduit	3.5"	420	LF	1993
PVC Conduit	2.0"	380	LF	1993
PVC Conduit	3.0"	100	LF	1993
Overhead Circuits	AWG			
	#2CU	1085	LF	1975
Transformers, 3 Phase, kVA				
- Dry Type, ventilated, pad mounted	45.0	1	EA	1993
- Dry Type, ventilated, pad mounted	75	1	EA	1995

Item	Size	Quantity	Unit	Approximate Year of Construction
Transformers, 3 Phase, kVA				
- Oil filled, pad mounted	75	1	EA	1982
- Oil filled, pad mounted	112.5	1	EA	1997
- Oil filled, pad mounted	150	1	EA	1993
- Oil filled, pad mounted	150	1	EA	1999
- Oil filled, pad mounted	150	1	EA	1997
- Oil filled, pad mounted	225	3	EA	1995
- Oil filled, pad mounted	300	1	EA	1999
- Oil filled, pad mounted	300	1	EA	1993
- Oil filled, pad mounted	300	1	EA	1990
- Oil filled, pad mounted	500	1	EA	1995
- Oil filled, pad mounted	750	1	EA	1975
- Oil filled, pad mounted	1000	1	EA	1996
- Oil filled, pad mounted	1500	1	EA	1995
- Oil filled, pole mounted	75	1	EA	1961
- Oil filled, pole mounted	75	2	EA	1975
- Oil filled, pole mounted	150	2	EA	1975
Utility Poles	Height (ft)			
	40	8	EA	1961
	40	3	EA	1990
Switches-Underground	Type			
	4 Way	1	EA	1995
	4 Way	11	EA	1995
	4 Way	1	EA	1997
	4 Way	2	EA	1999
Manholes, pre-cast, concrete	Type			
- Pre-cast, Manholes	4'x4'x5'	1	EA	1993
- Pre-cast, Handholds	12"x18"x24"	10	EA	1995
Notes:				

Item	Size	Quantity	Unit	Approximate Year of Construction
AWG = American Wire Gauge				
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt-amperes				
V = volts				

J7.2.2 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 Stratton ANG Base

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Stratton ANG Base

Description	Quantity	Location	Maker
None			

J7.2.3 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 Stratton ANG Base

Qty	Item	Description	Remarks
1	Map	Electrical System Electronic Drawings	AutoCAD Release 14

J7.3 Specific Service Requirements

The service requirements for the Stratton ANG Base electric distribution system are as defined in the Section C Description/Specifications/Work Statement

- 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.

J7.4 Current Service Arrangement

- Provider Name: Niagara Mohawk
- Annual Usage: 3,521 MWH
- Average Usage: 293 MWH/Month
- Annual Usage Fluctuations:
 - High: 384 MWH/Month
 - Low: 284 MWH/Month

J7.5 Secondary Metering

J7.5.1 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 J7.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Stratton ANG Base

Meter Location	Meter Description
None	

J7.5.2 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 J7.6 below.

ABLE 6

New Secondary Meters

Electric Distribution System Stratton ANG Base

Meter Location	Meter Description
None	

J7.6 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.

J7.7 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

J7.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Stratton ANG Base boundaries.

J7.9 Off-Installation Sites

No off-installation sites are included in the sale of the Stratton ANG Base electric distribution system.

J7.10 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 Stratton ANG Base

Location	Description
None	

J7.11 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 STRATTON ANG Base 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 Stratton ANG Base

Project Location	Project Description
None	