

ATTACHMENT J1

NEW CASTLE AGS (ANG) Electric Distribution System

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J1 NEW CASTLE AGS (ANG) Electric Distribution System

J1.1 NEW CASTLE AGS (ANG) Overview

The 166th Airlift Wing is located on historic New Castle County Airport, 5 miles south of Wilmington Delaware. The installation is located on 79.6 acres and includes 44 buildings totaling 256,534 square feet. The normal population of the installation is 290 personnel but surges to 900 personnel one weekend per month. The men and women of the 166th Airlift Wing support, maintain and fly the C-130 “Hercules.” This venerable transport aircraft is used in a variety of roles to include: Airlift, Airdrop and Aeromedical Evacuation. The aircraft of the 166th have seen duty in Saudi Arabia during DESERT SHIELD and DESERT STORM, Operation JUST CAUSE in Panama, Operation JOINT ENDEAVOR in Bosnia, and a host of other countries around the world.

J1.2 Electric Distribution System Description

J1.2.1 Electric Distribution System Fixed Equipment Inventory

The NEW CASTLE AGS (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, protective devices, utility poles, ductbanks, 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. Parking Lot and Street Lighting
2. Airfield Lighting
3. Existing emergency generators

J1.2.1.1 Description

The power distribution system at New Castle has approximately 8,000 linear feet of wiring, 10 substation transformers, 10 three-phase oil filled transformers, 29 wood utility poles, and 2 electrical manholes. System age ranges from 1955 to present and is considered to be in good condition. Base has no power generation capabilities except for emergency backup generators that fall outside the scope of this utility's privatization.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the

NEW CASTLE AGS (ANG) electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System NEW CASTLE AGS (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits and Ductbanks (3ph, 4w, 15000V, in conduit)	#6 AWG	2620	LF	1995
	#6 AWG	210	LF	1985
	#6 AWG	770	LF	1975
	#6 AWG	240	LF	1955
Overhead Circuits (3ph, 4w conductor)	#4 AWG	250	LF	1995
		140	LF	1985
		1630	LF	1975
		2580	LF	1955
3 Phase Substation Transformers	45 KVA	2	EA	1995
	45 KVA	1	EA	1975
	112.5 KVA	2	EA	1975
	112.5 KVA	1	EA	1995
	30 KVA	1	EA	1975
	75 KVA	1	EA	1955
	113 KVA	2	EA	1955
3 Phase Transformers (oil filled)	30 KVA	1	EA	1955
	45 KVA	2	EA	1995
	45 KVA	2	EA	1975
	75 KVA	1	EA	1955
	112.5 KVA	2	EA	1975

Item	Size	Quantity	Unit	Approximate Year of Construction
Utility Poles (wood)	113 KVA	2	EA	1955
	30 FT	1	EA	1955
	35 FT	3	EA	1955
	40 FT	6	EA	1955
	45 FT	19	EA	1955
Electrical Manholes (Brick)		2	EA	1955

Notes:

AWG = American Wire Gauge
 ea = each
 lf = linear feet
 KVA = nominal kilovolt-amperes
 Ph = phase
 V = volts

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 NEW CASTLE AGS (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
 Specialized Vehicles and Tools
 Electric Distribution System NEW CASTLE AGS (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 NEW CASTLE AGS (ANG)

Qty	Item	Description	Remarks
1	Maps	AUTOCAD Release 14	Distribution System

J1.3 Specific Service Requirements

The service requirements for the NEW CASTLE AGS (ANG) electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*.

J1.4 Current Service Arrangement

The New Castle AGS (ANG) electrical distribution system is maintained by the ANG. Electrical power is provided by Conectiv.

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 NEW CASTLE AGS (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 NEW CASTLE AGS (ANG)

Meter Location	Meter Description
One meter at each of three Lift Stations.	Required to monitor electrical consumption of the wastewater collection system.

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. 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 NEW CASTLE AGS (ANG) boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the NEW CASTLE AGS (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 NEW CASTLE AGS (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 NEW CASTLE AGS (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 Renewal and Replacement Plan 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 NEW CASTLE AGS (ANG)

Project Location	Project Description
No System Deficiencies	