

HARRISBURG INTERNATIONAL AIRPORT (ANG) Electric Distribution System

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J14 HARRISBURG INTERNATIONAL AIRPORT (ANG) Electric Distribution System

J14.1 HARRISBURG INTERNATIONAL AIRPORT (ANG) Overview

Harrisburg International Airport (ANG) is home to the 193rd Special Operations Wing and is located in south central Pennsylvania, approximately 105 miles west of Philadelphia and nine miles north-west of Harrisburg. The airport is owned by the Commonwealth of Pennsylvania and is operated by the Pennsylvania Department of Transportation, Bureau of Aviation. The ANG occupies 23 buildings; 15 industrial; 6 administrative; and 2 services, amounting to approximately 295,000 square feet on 36 acres at the east-end of the airport. There are 297 full time personnel on base with a twice a month drill weekend surge to 981 personnel.

J14.2 Electric Distribution System Description

J14.2.1 Electric Distribution System Fixed Equipment Inventory

The Harrisburg International 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, 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:

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

J14.2.1.1 Description

The Harrisburg International Airport (ANG) electrical system is an underground looped delta configuration. The voltage is distributed at 13,200 volts and enters the base at one location on the east side of the base in a switch gear unit located at building number 71 (Corrosion Control Hanger on Olmsted Blvd). The system contains 12 pad mounted transformers that range from 75kVA to 1000 kVA, six disconnect switches, and approximately 3200 linear feet of 15 kV 500 MCM copper wiring that is enclosed in duct banks buried at approximately three feet below the finished grade. The system was installed primarily in 1982 with transformer ages ranging from 1978 to 1998.

J14.2.1.2 Inventory

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

TABLE 1

Fixed Inventory

Electric Distribution System Harrisburg International Airport (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG	Length		
3 phase, 3 wire, 15,000v, in conduit	500 MCM	2864	LF	1982
3 phase, 3 wire, 15,000v, in conduit	500 MCM	300	LF	1988
Oil Filled, Pad Mounted Transformers	Nom kVA	No.		
	75	1	EA	1998
	75	1	EA	1986
	112.5	1	EA	1982
	150	1	EA	1995
	150	1	EA	1996
	300	1	EA	1995
	300	1	EA	1986
	500	1	EA	1996
	500	1	EA	1983
	500	1	EA	1978
	1000	1	EA	1985
	1000	1	EA	1982

Switches, Pad Mounted	Type	No.		
Enclosed	400A	1	EA	1995
Base Disconnect Switches	15KV	3	EA	1982
Service Disconnect type S3	400A	1	EA	1982
Service Disconnect type S1	250A	1	EA	1982
Manholes, Cast in Place Concrete	Size			
	6'x6'x8'	7	EA	1982
	6'x6'x10'	3	EA	1982
	6'x6'x12'	2	EA	1982
Duct Bank	Conduits			
P = # of Power/C=# of Communication				
	2P	300	LF	1988
	2P/6C	375	LF	1982
	2P/12C	150	LF	1982
	2P/8C	269	LF	1982
	2P/6C	498	LF	1982
	2P/2C	1044	LF	1982
	2P/4C	528	LF	1982

Notes:

AWG = American Wire Gauge

ea = each

LF= linear feet

Nom kVA = nominal kilovolt-amperes

ph = phase

V = volts

w = wire

MCM= thousand circular mils

J14.2.2 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 Harrisburg International Airport (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools

Electric Distribution System Harrisburg International Airport (ANG)

Description	Quantity	Location	Maker
None			

J14.2.3 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 Harrisburg International Airport (ANG)

Qty	Item	Description	Remarks
1	Electric System Utility Map	Electronic Copy	AutoCAD Release 14

J14.3 Specific Service Requirements

- The service requirements for the Harrisburg International Airport (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement.

J14.4 Current Service Arrangement

- Provider Name: GPU Energy
- Average Usage: 10,900 kWh per year
- Peak Monthly Usage: 1,100 kWh

J14.5 Secondary Metering

J14.5.1 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 J14.6 below.

TABLE 5

Existing Secondary Meters
Electric Distribution System Harrisburg International Airport (ANG)

Meter Location	Meter Description
None	

J14.5.2 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 J14.6 below.

TABLE 6

New Secondary Meters
Electric Distribution System Harrisburg International Airport (ANG)

Meter Location	Meter Description
None	

J14.6 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.

J14.7 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

J14.8 Service Area

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

J14.9 Off-Installation Sites

No off-installation sites are included in the sale of the Harrisburg International Airport (ANG) electric distribution system.

J14.10 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 Harrisburg International Airport (ANG)

Location	Description
None	

J14.11 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 Harrisburg International 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 Harrisburg International Airport (ANG)

Project Location	Project Description
None	