

ATTACHMENT J1

Pittsburgh 911th AW, ARS, Electric Distribution System

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J1 Pittsburgh ARS, 911th AW, Electric Distribution System

J1.1 Pittsburgh ARS, 911th AW Overview

The Pittsburgh Air Reserve Station (ARS) is home to the 911th Airlift Wing (AW). The installation is located in the western portion of Allegheny County, Pennsylvania, within the Pittsburgh International Airport (IAP). The Base is approximately 16 miles northwest of downtown Pittsburgh located along Business Route 60. The 911th AW's mission is to train Air Force Reserve personnel to respond to national interests with equipment and supplies through air drop, landing, and cargo extraction. The base currently is assigned nine C-130 H "Hercules" cargo/transport aircraft which are used for joint service training, support to active duty training, and transport of combat troops, supplies, and equipment during missions. The resulting economic impact on the surrounding Pittsburgh area is over \$82 million.

The 911th AW encompasses approximately 115 acres (12 acres government owned and 103 acres leased from Allegheny County) in the eastern portion of the Pittsburgh IAP. Construction for the base began in 1942 and has seen several different units and mission changes over its life. The 911th AW has been operating at the Pittsburgh ARS since January 1963.

The 911th AW has a total of 59 buildings with an estimated 511,366 square feet which is further subdivided into 139,148 square feet dedicated to industrial activities and 47,616 square feet for administrative purposes. No housing facilities are located on the base. The 911th AW employs 1,675 personnel, including 1,221 Reservists/Trainees and 320 full time civilians. Future plans for the base include the construction of a new headquarters facility consisting of approximately 22,000 square feet. Other activities on the base include utilization of training facilities by the US Navy Reserve Seabees and the Civil Air Patrol. The US Army Corps of Engineers also maintains an office on the station.

J1.2 Electric Distribution System Description

J1.2.1 Electric Distribution System Fixed Equipment Inventory

The 911th AW 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 taxiway and runway lights.
- The sub-station, transformer, and electrical switches and panels located within the Duquesne Light Company owned sub-station fence
- Emergency electricity generators.
- Duquesne Light Company utility poles that carry the primary electrical feeders to the Base that are located on the AF property but remain owned and maintained by the Duquesne Light Company.
- Parking Lot & Security Lights that are fed power directly from Buildings

J1.2.1.1 Description

Duquesne Light Company supplies electricity to the 911th AW. The 22.9-kilovolt (kV) distribution line enters the base in two locations. One feed enters the base east of building 206 and turns south following the east property line to the southeast corner of the base. At that point a feeder line branches off to the northwest across the base, delivering power to the Duquesne owned substation located at building 260. The other feed enter the base at the southeast corner, is routed behind the service station at building 322 before entering the substation. The primary is stepped down at the substation to 4.16 kV to feed the Base primary. Duquesne Light's lines terminate at the vacuum air switches on the base side of the substation. The substation is made up of two fenced areas. The smaller fenced area and equipment belong to the government and will be privatized. The substation is operating at its maximum capacity.

A combination overhead/underground system serves the majority of the Base's facilities, and an underground distribution line serves the remaining facilities in the southeast quadrant of the Base. Electrical equipment that contained PCBs has been replaced. There is no Supervisory Control and Data Acquisition (SCADA) system for remote operation or monitoring of the electrical system.

The distribution system is generally in fair condition, and the positioning of switches throughout the system provides a degree of backup from one circuit to another. A number of utility poles have reached the end of their operating life and require replacement, as do some of the attachments. Additionally, some of the overhead distribution cables require restringing or replacement due to excessive sagging. The 911th AW is in the planning stage to relocate 4.16kV Base primary feed lines underground. A three phase project is planned but not currently funded; with the first phase involving the industrial flightline along the north apron.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the 911th AW electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System 911th AW, ARS

Item	Size	Quantity	Unit	Approximate Year of Construction
<u>Light Pole</u>				
Galvanized light pole	30.0	15	EA	1995
<u>Electric Poles</u>				
Wood power pole	35.0	4	EA	1995
Wood power pole	40.0	3	EA	1995
Wood power pole	35.0	3	EA	1985
Wood power pole	40.0	4	EA	1985
Wood power pole	30.0	2	EA	1965
Wood power pole	35.0	6	EA	1965
Wood power pole	40.0	5	EA	1965
Wood power pole	45.0	3	EA	1965
Wood power pole	25.0	10	EA	1945
Wood power pole	30.0	23	EA	1945
Wood power pole	35.0	22	EA	1945
Wood power pole	40.0	11	EA	1945
Pole, Arms	5	5	EA	1995
Pole, Arms	5	5	EA	1985
Pole, Arms	5	14	EA	1965
Pole, Arms	5	50	EA	1945
<u>Disconnect Switch, Single Pole</u>				
2-WAY SWITCH		2	EA	1945
2-WAY SWITCH		3	EA	1965
<u>Underground Disconnect Switch</u>				

Item	Size	Quantity	Unit	Approximate Year of Construction
2-WAY SWITCH		4	EA	1965
<u>Pad-mounted MV Switches</u>				
2-WAY SWITCH		6	EA	1995
3-WAY SWITCH		1	EA	1995
4-WAY SWITCH		6	EA	1975
<u>Pre-cast Concrete Handhole</u>				
Electric handhole, pre-cast concrete	4'6":x3'2"x2'	6	EA	1995
Electric handhole, pre-cast concrete	4'6":x3'2"x2'	3	EA	1985
Electric handhole, pre-cast concrete	4'6":x3'2"x2'	7	EA	1975
<u>Brick Handhole</u>				
Electric manhole, brick	4X6	7	EA	1965
Electric manhole, brick	4X6	1	EA	1955
Electric manhole, brick	4X6	1	EA	1945
<u>Roadway Area Luminaire, HP Sodium</u>				
400W HPS	STREET	8	EA	1995
400W HPS	STREET	7	EA	1985
400W HPS	BALLFIELD	20	EA	1995
GUY, ANCHOR, HARDWARE		2	EA	1995
GUY, ANCHOR, HARDWARE		3	EA	1985
GUY, ANCHOR, HARDWARE		7	EA	1965
GUY, ANCHOR, HARDWARE		28	EA	1945
Primary Cable Terminations and Lugs		12	EA	1965
Primary Cable Terminations and Lugs		24	EA	1975
Primary Cable Terminations and Lugs		58	EA	1985
Primary Cable Terminations and Lugs		40	EA	1995
Primary Cable Terminations and Lugs		12	EA	2000
<u>Underground Conduit, shielded cable</u>				

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Conductor 3ph, 4w, in conduit	#1/0	1,200	SCLF	1995
Underground Conductor 3ph, 4w, in conduit	#2/0	1,200	SCLF	1995
Underground Conductor 3ph, 4w, in conduit	#1/0	2,000	SCLF	1985
Underground Conductor 3ph, 4w, in conduit	#2/0	2,000	SCLF	1985
Underground Conductor 3ph, 4w, in conduit	#1/0	6,200	SCLF	1975
Underground Conductor 3ph, 4w, in conduit	#2/0	6,200	SCLF	1975
Underground Conductor 3ph, 4w, in conduit	#1/0	4,000	SCLF	1965
Underground Conductor 3ph, 4w, in conduit	#2/0	4,000	SCLF	1965
<u>Ductbank</u>				
Ductbank, 4" Conduit	1x2	2,000	LF	1965
Ductbank, 4" Conduit	1x2	3,100	LF	1975
Ductbank , 4" Conduit	1x2	1,000	LF	1985
Ductbank, 4" Conduit	1x2	600	LF	1995
<u>Copper Wire Conductor</u>				
Overhead Conductor 3 Phase, 4w	#1 CU	3724	SCLF	1975
Overhead Conductor 3 Phase, 4w	#1/0 CU	20760	SCLF	1975
Overhead Conductor 3 Phase, 4w	#1 CU	14284	SCLF	1965
Overhead Conductor 3 Phase, 4w	#1 CU	1964	SCLF	1955
Overhead Conductor 3 Phase, 4w	#1/0 CU	12816	SCLF	1995
Overhead Conductor 3 Phase, 4w	#2 CU	26996	SCLF	1945
Overhead Conductor 3 Phase, 4w	#2 CU	14284	SCLF	1975
Overhead Conductor 1 Phase, 4w	#1/0 CU	3724	SCLF	1965
Overhead Conductor 1 Phase, 4w	#2/0 CU	20760	SCLF	1965
Overhead Conductor 1 Phase, 4w	#4 CU	1708	SCLF	1955
Overhead Conductor 1 Phase, 4w	#2 CU	27168	SCLF	1955

Oil Fed Transformers, Pad Mounted

Item	Size	Quantity	Unit	Approximate Year of Construction
1 - Phase Transformer	37.5	1	EA	2003
1 - Phase Transformer	75.0	2	EA	1965
1 - Phase Transformer	75.0	2	EA	1975
1 - Phase Transformer	75.0	2	EA	1985
1 - Phase Transformer	75.0	1	EA	1995
3 - Phase Transformer	150.0	1	EA	1995
3 - Phase Transformer	150.0	1	EA	1985
3 - Phase Transformer	150.0	1	EA	1975
3 - Phase Transformer	150.0	1	EA	1985
3 - Phase Transformer	150.0	1	EA	1995
3 - Phase Transformer	225.0	1	EA	1975
3 - Phase Transformer	225.0	1	EA	1985
3 - Phase Transformer	225.0	3	EA	1995
3 - Phase Transformer	300.0	1	EA	1985
3 - Phase Transformer	300.0	1	EA	1995
3 - Phase Transformer	300.0	2	EA	2000
3 - Phase Transformer	500.0	3	EA	1985
3 - Phase Transformer	750.0	1	EA	1985
<u>Oil filled, pole mounted transformers</u>				
1 - Phase Transformer	10.0	1	EA	1965
1 - Phase Transformer	10.0	1	EA	1975
1 - Phase Transformer	10.0	1	EA	1985
1 - Phase Transformer	10.0	1	EA	1995
1 - Phase Transformer	15.0	1	EA	1955
1 - Phase Transformer	25.0	1	EA	1975
1 - Phase Transformer	25.0	1	EA	1985
1 - Phase Transformer	25.0	1	EA	1995
1 - Phase Transformer	38.0	5	EA	1955
1 - Phase Transformer	38.0	1	EA	1965
1 - Phase Transformer	38.0	5	EA	1975
1 - Phase Transformer	38.0	9	EA	1985
1 - Phase Transformer	50.0	1	EA	1985

Item	Size	Quantity	Unit	Approximate Year of Construction
1 - Phase Transformer	50.0	1	EA	1965
1 - Phase Transformer	50.0	3	EA	1975
1 - Phase Transformer	50.0	3	EA	1985
1 - Phase Transformer	50.0	2	EA	1995
1 - Phase Transformer	100.0	1	EA	1965
1 - Phase Transformer	100.0	5	EA	1975
1 - Phase Transformer	100.0	4	EA	1985
1 - Phase Transformer	100.0	2	EA	1995
1 - Phase Transformer	167.0	1	EA	1975
1 - Phase Transformer	167.0	1	EA	1985
1 - Phase Transformer	167.0	1	EA	1995
1 - Phase Transformer	38.0	1	EA	1975
1 - Phase Transformer	38.0	2	EA	1985
1 - Phase Transformer	38.0	1	EA	1975
Transformer Pad, 4' X 4'	4'x4'	20	EA	1985
<u>Lightening Arresters</u>				
Lightening Arresters		32	EA	1975
Lightening Arresters		32	EA	1985
Lightening Arresters		9	EA	1995
<u>Driven Grounds</u>				
Driven Grounds		12	EA	1955
Driven Grounds		12	EA	1965
Driven Grounds		39	EA	1975
Driven Grounds		28	EA	1985
Driven Grounds		19	EA	1995
<u>Basic Meter Device</u>				
Meter	120/208 V, 125A	2	EA	1970
Meter	480/277V, 1600Amps	3	EA	1970
Meter	480/277V,	1	EA	1970

Item	Size	Quantity	Unit	Approximate Year of Construction
	800Amps			
Meter	120/208 V, 125A	3	EA	1980
Meter	208/120V, 400Amps	1	EA	1980
Meter	208/120V, 1200Amps	1	EA	1980
Meter	120/208 V, 125A	4	EA	1990
Meter	120/208 V, 125A	1	EA	2003

Notes:
 AWG = American Wire Gauge
 ea = each
 HPS=High pressure sodium (luminaire)
 lf = linear feet
 Nom kVA = nominal kilovolt-amperes
 OH= overhead
 ph – phase
 SCLF= Single Conductor Linear Feet
 TNF= transformer
 UG= underground
 V = volts
 w = wire

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 911th AW, ARS

Qty	Item	Make/Model	Description	Remarks
	None			

TABLE 3
 Specialized Vehicles and Tools
 Electric Distribution System 911th AW, ARS

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 911th AW, ARS

Qty	Item	Description	Remarks
1	Tab G-4 Electrical Distribution System	Area map of the base depicting the entire electrical distribution system. Sheet 1 of 1	

J1.3 Specific Service Requirements

The service requirements for the 911th AW electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the 911th AW 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.

- The Contractor shall provide monthly meter reading reports in accordance with Paragraph J3.6, and that meet the following requirements:

The Contractor shall keep a meter book with monthly consumption and demand (if applicable) for each meter reading. Meter books shall also include building address or facility number, meter number, previous month readings, current month readings, multipliers for each meter, total monthly consumption, points of contact for meter questions, and procedure for converting meter reads into consumption (including multipliers). The Government may provide a meter reading report format to be used for meter readings.

- Provide marks on the ground to show locations of underground distribution lines on a as needed basis as other entities request. Mark utilities in the field to show location and depth.

J1.4 Current Service Arrangement

The Duquesne Light Company is the electric commodity provider to the 911th AW. The FY2002 annual electric usage was 6,633 MWh. The average monthly usage was 550,000 kWh with the maximum occurring in July with 688,000 kWh and the minimum occurring in February with 492,000 kWh.

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 911th AW, ARS

Meter Location	Meter Description
Facility 102 POL	Basic meter 208/120V, 400Amps
Facility 110 Consolidated Open Mess	Basic Meter, 120/208 V, 125A
Facility 127 Fuel Operations Building	Basic Meter, 120/208 V, 125A
Facility 129 Nose Dock Hangar	Basic meter 480/277V, 1600Amps
Facility 212 Electrical Substation	Basic Meter, 120/208 V, 125A
Facility 220 Medical Facility	Basic Meter, 120/208 V, 125A
Facility 300 Ceramic Shop	Basic Meter, 120/208 V, 125A
Facility 300 Snack Bar	Basic Meter, 120/208 V, 125A
Facility 300 Army Air Force Exchange	Basic Meter, 120/208 V, 125A
Facility 300 Credit Union	Basic Meter, 120/208 V, 125A
Facility 304 Vehicle Maintenance Shop	Basic meter 208/120V, 1200Amps
Facility 320 Service Store	Basic Meter, 120/208 V, 125A
Facility 333 Base Civil Engineer	Basic Meter, 120/208 V, 125A
Facility 411 Propulsion Hangar	Basic meter 480/277V, 1600Amps
Facility 416 Fuel Operations Building	Basic meter 480/277V, 800Amps
Facility 417 ISO Hangar	Basic meter 480/277V, 1600Amps

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 911th AW, ARS

Meter Location	Meter Description
----------------	-------------------

Facility 103 POL Pump House	Three Phase. Provide meters that function properly with this electrical system and meet the standard of code and practice for use in this setting.
Facility 126 Fuel Ops Building	Single Phase. Provide meters that function properly with this electrical system and meet the standard of code and practice for use in this setting.
Facility 130 Aerial Port facility	Same as Building 103
Facility 206 VOQ/Billeting Office	Same as Building 103
Facility 208 HQ/SF/COE	Same as Building 103
Facility 209 Dorm, VAQ	Same as Building 103
Facility 213 Dining Hall	Same as Building 103
Facility 213 Boiler	Same as Building 103
Facility 216 Dorm, VAQ	Same as Building 103
Facility 218 Dorm, VAQ	Same as Building 103
Facility 219 Dorm, VAQ	Same as Building 103
Facility 303 Hazard Storage BSE	Same as Building 103
Facility 305 Vehicle Maint Shop	Same as Building 103
Facility 306 Transportation	Same as Building 103
Facility 312 Base Supply Warehouse	Same as Building 103
Facility 316 Headquarters Building	Same as Building 103
Facility 318 Hazard Storage BSE	Same as Building 126
Facility 319 Hazard Storage BSE	Same as Building 103
Facility 322 Military Service Station	Same as Building 126
Facility 324 Vehicle Wash Rack	Same as Building 103
Facility 325 CE Roads & Grounds	Same as Building 103
Facility 326 Hazard Storage BSE	Same as Building 126
Facility 327 CE Sand Storage	Same as Building 103
Facility 337 Hazard Storage BSE	Same as Building 126
Facility 339 BE Storage CV Facility	Same as Building 103
Facility 342 CE Material Control	Same as Building 103
Facility 401 Chapel	Same as Building 103
Facility 405 Comm Facility	Same as Building 103
Facility 408 SHP Surv Equipment	Same as Building 103
Facility 409 SHP Non-Destr Insp	Same as Building 103
Facility 412 WTR FR Pmp Station	Same as Building 126
Facility 412 SF Entry Con Facility	Same as Building 126
Facility 418 Aircraft Hangar	Same as Building 103
Facility 419 Operations	Same as Building 103

Facility 420 Aerial Support Equipment	Same as Building 103
Facility 5842, Pavilion	Same as Building 103
Facility 6496, Engine Test Stand	Same as Building 103
CES Pole Barn	Same as Building 103

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:

911th AW, ARS/LGC
Pittsburgh International Airport
1100 Herman Avenue
Coraopolis, PA 15108-4421
412-474-8120

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:

911th AW, ARS/LGC
Pittsburgh International Airport
1100 Herman Avenue
Coraopolis, PA 15108-4421
412-474-8573

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:

911th AW, ARS/LGC
Pittsburgh International Airport
1100 Herman Avenue
Coraopolis, PA 15108-4421
412-474-8573

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:

911th AW, ARS/LGC
 Pittsburgh International Airport
 1100 Herman Avenue
 Coraopolis, PA 15108-4421
 412-474-8573

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.

No energy saving projects are currently being implemented.

J1.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the 911th AW, ARS boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the 911th AW 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 911th AW, ARS

Location	Description
None	No new service connections or disconnects will be required as a result of privatization.

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 911th AW 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 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 911th AW, ARS

Project Location	Project Description
911th AW, 400 area of the Base, Flight line side	Proj No. JLSS-01-0008. Relocate 4160 Volt Primary U/G Phase 1. Project consists of demolition of the northwest section of the overhead utility distribution system to include poles and accessories, primary/secondary cables, transformers and brackets, conduit and transformer pad and fencing. Install concrete encased four-inch duct bank(s) and one electrical manhole and two hand holes. Install new U/G primary service using #2/0 15 kV Cable. Install five Pad mounted transformers. (2-750 KVA and 3-300 KVA 2-25 KVA) to feed power to buildings 129, 401,405, 408, 418, and 420. Transformers to be controlled from three pad mounted 4-way air interrupter switches.
911th AW, ARS, Electrical Distribution System	JLSS 01-0009 Relocate 4160V Primary U/G Phase 2
911th AW, ARS, Electrical Distribution System	JLSS 01-0010 Relocate 4160V Primary U/G Phase 3
911th AW, ARS, Facility 213	Replace Transformer