ATTACHMENT J15

Portland IAP (ANG) Electric Distribution System

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J15 Portland IAP (ANG) Electric Distribution System

J15.1 Portland IAP (ANG) Overview

The 142nd Fighter Wing (FW) of the Oregon Air National Guard occupies 246 acres of leased land on the Portland International Airport (IAP), located approximately five miles south of Portland, Oregon. The mission of the 142nd FW is to provide operational headquarters and training facilities for the installation and tenant units, support the Oregon Emergency Action Plan, and serve the community. The unit currently flies the F-15 Eagle. The 142nd FW occupies 5 administrative, 63 industrial and 4 services buildings totaling approximately 691,839 square feet with 576 full-time personnel. A unit training drill is conducted twice a month and results in a surge of up to a total of 1332 personnel.

J15.2 Electric Distribution System Description

J15.2.1 Electric Distribution System Fixed Equipment Inventory

The Portland IAP (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, ductbanks, manholes, and cabinets. 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

?? The primary distribution line owned by the Portland Power and Light Company that crosses the east side of the base.

?? The base-owned communication line that runs throughout the ductbank system

?? All electric meters on the installation are owned by the Portland Power and Light Company

?? Aircraft arresting barrier pits

J15.2.1.1 Description

Power is provided by Portland Power and Light Company and enters the base and is metered at two locations. It is delivered and distributed at 12.47 kV through an underground wye system with a looped configuration. The primary distribution system consists of approximately 24,300 linear feet of 3-phase underground circuits rated at 15 kV. The underground circuits are in ductbanks buried at an average depth of 30 inches and are marked with tracer wire. Multiple branches feed 45 three-phase pad mounted transformers ranging from 25 to 1000 kVA and one 25 kVA single-phase transformer. The system includes 40 pre-cast concrete manholes, four by four by five feet deep, and three service top cabinets. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J15.2.1.2 Inventory

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

TABLE 1
Fixed Inventory
Electric Distribution System Portland IAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG			
3ph, 4w, 15000V	#4/0	1035	LF	1985
3ph, 4w, 15000V	#4/0	335	LF	1995
3ph, 4w, 15000V	#4/0	1610	LF	1986
3ph, 4w, 15000V	#4/0	170	LF	1994
3ph, 4w, 15000V	#4/0	1175	LF	1988
3ph, 4w, 15000V	#4/0	605	LF	1991
3ph, 4w, 15000V	#4/0	1985	LF	1990
3ph, 4w, 15000V	#4/0	460	LF	1992
3ph, 4w, 15000V	#4/0	465	LF	1992
3ph, 4w, 15000V	#4/0	2695	LF	1996
3ph, 4w, 15000V	#4/0	3530	LF	1986
3ph, 4w, 15000V	#4/0	1730	LF	1988
3ph, 4w, 15000V	#4/0	660	LF	1990
3ph, 4w, 15000V	#4/0	1275	LF	1985
3ph, 4w, 15000V	#4/0	5250	LF	1996
3ph, 4w, 15000V	#4/0	1275	LF	1986
Ductbanks				
1-conduit ductbank		1035	LF	1985

Item	Size	Quantity	Unit	Approximate Year of Construction
1-conduit ductbank		335	LF	1995
1-conduit ductbank		1610	LF	1986
1-conduit ductbank		170	LF	1994
1-conduit ductbank		1175	LF	1988
1-conduit ductbank		605	LF	1991
1-conduit ductbank		1985	LF	1990
1-conduit ductbank		460	LF	1992
2-conduit ductbank		465	LF	1992
2-conduit ductbank		2695	LF	1996
2-conduit ductbank		3530	LF	1986
2-conduit ductbank		1730	LF	1988
2-conduit ductbank		660	LF	1990
2-conduit ductbank		1275	LF	1985
2-conduit ductbank		5250	LF	1996
4-conduit ductbank		1275	LF	1986
Transformers	Nom kVA			
3ph, oil filled, pad mounted	25	1	EA	1988
3ph, oil filled, pad mounted	25	1	EA	1977
3ph, oil filled, pad mounted	25	1	EA	1998
3ph, oil filled, pad mounted	45	1	EA	1988
3ph, oil filled, pad mounted	75	2	EA	1986
3ph, oil filled, pad mounted	75	1	EA	1988
3ph, oil filled, pad mounted	75	1	EA	1985
3ph, oil filled, pad mounted	112.5	1	EA	1989
3ph, oil filled, pad mounted	150	1	EA	1983
3ph, oil filled, pad mounted	150	1	EA	1986
3ph, oil filled, pad mounted	150	2	EA	1960
3ph, oil filled, pad mounted	150	1	EA	1963
3ph, oil filled, pad mounted	150	1	EA	1990
3ph, oil filled, pad mounted	150	1	EA	1991
3ph, oil filled, pad mounted	150	1	EA	1993
3ph, oil filled, pad mounted	150	1	EA	1985

Item	Size	Quantity	Unit	Approximate Year of Construction
3ph, oil filled, pad mounted	150	1	EA	1996
3ph, oil filled, pad mounted	150	1	EA	1977
3ph, oil filled, pad mounted	225	1	EA	1956
3ph, oil filled, pad mounted	225	1	EA	1990
3ph, oil filled, pad mounted	225	1	EA	1988
3ph, oil filled, pad mounted	300	2	EA	1986
3ph, oil filled, pad mounted	300	2	EA	1992
3ph, oil filled, pad mounted	300	1	EA	1979
3ph, oil filled, pad mounted	300	1	EA	1960
3ph, oil filled, pad mounted	300	3	EA	1990
3ph, oil filled, pad mounted	300	2	EA	1988
3ph, oil filled, pad mounted	300	1	EA	1965
3ph, oil filled, pad mounted	500	4	EA	1986
3ph, oil filled, pad mounted	500	1	EA	1995
3ph, oil filled, pad mounted	500	1	EA	1977
3ph, oil filled, pad mounted	500	1	EA	1985
3ph, oil filled, pad mounted	500	1	EA	1990
3ph, oil filled, pad mounted	500	1	EA	1994
3ph, oil filled, pad mounted	1000	1	EA	1986
1ph, oil filled, pad mounted	25	1	EA	1981
Service Top Cabinets	Type			
	Sectionalizing	3	EA	1986
Manholes	Size			
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	5	EA	1996
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	17	EA	1985
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	1	EA	1994
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	6	EA	1988
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	3	EA	1990
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	2	EA	1992
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	3	EA	1985
Pre-Cast Concrete	4 ft x 4 ft x 5 ft	3	EA	1996

Notes:
AWG = American Wire Gauge

Item	Size	Quantity	Unit	Approximate Year of Construction
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt -amperes				
ph – phase				
V = volts				
FT = feet				
w = wire				

J15.2.2 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 Portland IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Portland IAP (ANG)

Description	Quantity	Location	Maker
None			

J15.2.3 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 Portland IAP (ANG)

Qty	Description	Remarks
1	Portland ANG Base electric Map 8 June 2001	AutoCAD Release Version 2000

J15.3 Specific Service Requirements

The service requirements for the Portland IAP (ANG) electric distribution system are as defined in the Section C Description/Specifications/Work Statement. The following requirements are specific to the Portland IAP (ANG) 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.

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.

J15.4 Current Service Arrangement

?? **Current Provider:** Portland Power and Light Company

?? **Average Annual Usage (2000):** 9,397,900 kWh

?? **Maximum Monthly Usage**: 848,800 kWh November

?? **Minimum Monthly Usage**: 700,300 kWh October

?? **Peak Demand:** 3,350 kW

J15.5 Secondary Metering

J15.5.1 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 J15.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Portland IAP (ANG)

Meter Location	Meter Description
None	

J15.5.2 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 J15.6 below.

TABLE 6
New Secondary Meters
Electric Distribution System Portland IAP (ANG)

Meter Location	Meter Description
None	

J15.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW Paragraph 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.

J15.7 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.

J15.8 Service Area

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

J15.9 Off-Installation Sites

No off-installation sites are included in the sale of the Portland IAP (ANG) electric distribution system.

J15.10 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 Portland IAP (ANG)

Location	Description
None	

J15.11 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 Portland IAP (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 Portland IAP (ANG)

Project Location	Project Description
None	