

Fresno Yosemite IAP (ANG) Electric Distribution System

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J5 Fresno Yosemite IAP (ANG) Electric Distribution System

J5.1 Fresno Yosemite IAP (ANG) Overview

The 144th Fighter Wing (FW) of the California Air National Guard occupies two separate parcels of land (the main base area and the Munitions Storage Area) totaling 110.726 acres of leased land on the Fresno Yosemite International Airport, located approximately 4 miles east of downtown Fresno, California. The mission of the 144th FW is to provide air defense protection for California from the Mexican border to Ukiah utilizing the F-16 Fighting Falcon jet fighter aircraft. The 144th FW occupies 6 administrative, 16 industrial and 2 services buildings totaling approximately 341,251 square feet with 325 full-time personnel. A unit training drill is conducted once a month and results in a surge of up to a total of 990 personnel. There is currently an ongoing construction project (Composite Support Facility), which when completed by the end of FY 2001, will add an additional 6,236 square feet of building area.

J5.2 Electric Distribution System Description

J5.2.1 Electric Distribution System Fixed Equipment Inventory

The Fresno Yosemite 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, handholes, meters and switches. 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

?? Approximately 15 feet of primary distribution wiring owned by Pacific Gas & Electric, which enters the base at approximately 1,350 feet east of the centerline of Phantom Road

J5.2.1.1 Description

Power is provided by Pacific Gas & Electric (PG&E) and enters the base and is metered at one location. It is delivered and distributed at 12.47 kV through a radial underground system with

multiple dead-end branches. The primary distribution system of the main base area consists of 8,900 linear feet of 3-phase underground circuits rated at 15 kV. There are no primary circuits in the Munitions Storage Area. The underground circuits are in ductbanks buried at an average depth of three feet and are marked with warning tape. Multiple branches feed 15 three phase pad mounted transformers ranging from 75 to 750 kVA. The system includes 14 switches, 13 manholes, three electrical handholes and 18 meters. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J5.2.1.2 Inventory

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

TABLE 1
Fixed Inventory
Electric Distribution System Fresno Yosemite IAP (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
Underground Circuits	AWG			
3ph, 3w, 15000V, in ductbanks	#1/0	4327	LF	1976
3ph, 3w, 15000V, in ductbanks	#1/0	847	LF	1987
3ph, 3w, 15000V, in ductbanks	#1/0	127	LF	1999
3ph, 3w, 15000V, in ductbanks	#1/0	447	LF	1992
3ph, 3w, 15000V, in ductbanks	#1/0	160	LF	2001
3ph, 3w, 15000V, in ductbanks	#1/0	250	LF	1988
3ph, 3w, 15000V, in ductbanks	#1/0	2779	LF	1995
Transformers	Nom kVA			
3-ph, Oil filled, pad mounted	75	1	EA	1993
3-ph, Oil filled, pad mounted	112.5	1	EA	2001
3-ph, Oil filled, pad mounted	150	1	EA	1976
3-ph, Oil filled, pad mounted	150	1	EA	1988
3-ph, Oil filled, pad mounted	150	1	EA	1990
3-ph, Oil filled, pad mounted	225	1	EA	1993
3-ph, Oil filled, pad mounted	225	1	EA	1987
3-ph, Oil filled, pad mounted	225	1	EA	1992
3-ph, Oil filled, pad mounted	300	1	EA	1993
3-ph, Oil filled, pad mounted	300	2	EA	1987
3-ph, Oil filled, pad mounted	300	1	EA	2001
3-ph, Oil filled, pad mounted	500	1	EA	1977

Item	Size	Quantity	Unit	Approximate Year of Construction
3-ph, Oil filled, pad mounted	500	1	EA	1999
3-ph, Oil filled, pad mounted	750	1	EA	1976
Switches	Type			
	3-way	2	EA	1976
	4-way	1	EA	1976
	4-way	1	EA	1987
	600 A-L	1	EA	1976
	600 A-L	6	EA	1976
	2000 A-L	3	EA	1976
Electric Meters				
		18	EA	1990
Manholes	Size			
Pre-cast concrete	6 ft x 6 ft x 8 ft	7	EA	1976
Pre-cast concrete	8 ft x 8 ft x 7 ft	6	EA	1995
Handholes	Size			
Pre-cast concrete	20 in x 10 in x 22 in	2	EA	1995
Pre-cast concrete	14 in x 9 in x 22 in	1	EA	1995
Notes:				
AWG = American Wire Gauge				
EA = each				
LF = linear feet				
Nom kVA = nominal kilo volt -amperes				
ph – phase				
V = volts				
A-L = Aluminum				
FT = feet				
In = inch				
w = wire				

J5.2.2 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 Fresno Yosemite IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
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None				
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TABLE 3

Specialized Vehicles and Tools
Electric Distribution System Fresno Yosemite IAP (ANG)

Description	Quantity	Location	Maker
None			

J5.2.3 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 Fresno Yosemite IAP (ANG)

Qty	Description	Remarks
1	Electrical Utility System Maps (electronic copy)	AutoCAD Release Version 2000

J5.3 Specific Service Requirements

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

J5.4 Current Service Arrangement

?? **Current Provider:** Pacific Gas & Electric (PG&E)

?? **Average Annual Usage (2000):** 4,188,000 kWh

?? **Maximum Monthly Usage:** 450,000 kWh (July)

?? **Minimum Monthly Usage:** 293,000 kWh (November)

?? **Peak Demand:** 1,032 kW

J5.5 Secondary Metering

J5.5.1 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 J5.6 below.

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

Meter Location (Building#)	Meter Description
Building 125 (Outside Mechanical Room on inside Main switch panel)	Kilowatt Consumption Meter
Building 121 (Outside at Pad mounted Transformer)	Kilowatt Consumption Meter
Building 122 (Outside at Pad mounted Transformer)	Kilowatt Consumption Meter
Building 100 (Outside at the Main Switch Panel)	Kilowatt Consumption Meter
Building 101 (Submeter at same panel as Building 100 meter)	Kilowatt Consumption Meter
Building 102 (Submeter located in Building 101 left of SWBD MDP)	Kilowatt Consumption Meter
Building 110/114 (Submeter at same panel as Building 100 meter)	Kilowatt Consumption Meter
Building 111 (Inside at mezzanine)	Kilowatt Consumption Meter
Building 123 (Inside at XFMR TD-1)	Kilowatt Consumption Meter
Building 126 (Outside at pad mounted transformer)	Kilowatt Consumption Meter
Building 130 (Inside mechanical enclosure)	Kilowatt Consumption Meter
Building 131/POL Tanks (At XFMR PM -5)	Kilowatt Consumption Meter
Building 135 (Outside at pad mounted transformer)	Kilowatt Consumption Meter
Building 145 (Inside mechanical room)	Kilowatt Consumption Meter
Building 157 (Outside at XFMR PM-7)	Kilowatt Consumption Meter
Fac 167 (Outside at XFMR PM -9)	Kilowatt Consumption Meter
Building 171-179 (Outside at XFMR PM-8)	Kilowatt Consumption Meter
Building 225 (Inside mech room at main switchboard)	Kilowatt Consumption Meter

J5.5.2 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 J5.6 below.

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

Meter Location	Meter Description
Building 117 (Add to existing pad mounted transformers)	Kilowatt Hour

J5.6 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.

J5.7 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.

J5.8 Service Area

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

J5.9 Off-Installation Sites

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

J5.10 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 Fresno Yosemite IAP (ANG)

Location	Description
None	

J5.11 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 Fresno Yosemite 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 CapitalUpgrades 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 Fresno Yosemite IAP (ANG)

Project Location	Project Description
None	