

**ATTACHMENT J5**

# **Fresno Yosemite IAP (ANG) Electric Distribution System**

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# **J5 Fresno Yosemite IAP (ANG) Electric Distribution System**

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## **J5.1 Fresno Yosemite IAP (ANG) Overview**

The 144<sup>th</sup> 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 144<sup>th</sup> 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 144<sup>th</sup> 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 four 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
<b>Underground Circuits</b>	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
<b>Transformers</b>	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

Item	Size	Quantity	Unit	Approximate Year of Construction
<b>3-ph, Oil filled, pad mounted</b>	300	1	EA	2001
<b>3-ph, Oil filled, pad mounted</b>	500	1	EA	1977
<b>3-ph, Oil filled, pad mounted</b>	500	1	EA	1999
<b>3-ph, Oil filled, pad mounted</b>	750	1	EA	1976
<b>Switches</b>	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
<b>Electric Meters</b>				
		4	EA	1990
<b>Manholes</b>	Size			
<b>Pre-cast concrete</b>	6 ft x 6 ft x 8 ft	7	EA	1976
<b>Pre-cast concrete</b>	8 ft x 8 ft x 7 ft	6	EA	1995
<b>Handholes</b>	Size			
<b>Pre-cast concrete</b>	20 in x 10 in x 22 in	2	EA	1995
<b>Pre-cast concrete</b>	14 in x 9 in x 22 in	1	EA	1995
Notes:				
AWG = American Wire Gauge				
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt -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
None				

**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

### 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
None	

## J5.6 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 25<sup>th</sup> 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 25<sup>th</sup> 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 15<sup>th</sup> 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 25<sup>th</sup> 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 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 Fresno Yosemite IAP (ANG)

<b>Project Location</b>	<b>Project Description</b>
None	