

ATTACHMENT J1

Robins AFB Electrical Distribution System

TABLE OF CONTENTS

ROBINS AFB ELECTRICAL DISTRIBUTION SYSTEM..... I

J1 ROBINS AFB ELECTRICAL SYSTEM J1-1

J1.1 ROBINS AFB OVERVIEW J1-1

J1.2 ELECTRICAL DISTRIBUTION SYSTEM DESCRIPTION J1-2

J1.2.1 Electrical Distribution System Fixed Equipment Inventory J1-2

 J1.2.1.1 Description J1-3

 J1.2.1.2 Inventory J1-5

J1.2.2 Electrical Distribution System Non-Fixed Equipment and Specialized Tools J1-18

J1.2.3 Electrical Distribution System Manuals, Drawings, and Records J1-18

J1.3 SPECIFIC SERVICE REQUIREMENTS J1-19

J1.4 CURRENT SERVICE ARRANGEMENT J1-24

J1.5 SECONDARY METERING J1-26

J1.5.2 Required New Secondary Meters J1-26

J1.6 MONTHLY SUBMITTALS J1-26

J1.7 ENERGY SAVING PROJECTS J1-27

J1.8 SERVICE AREA J1-28

J1.9 OFF-INSTALLATION SITES J1-28

J1.10 SPECIFIC TRANSITION REQUIREMENTS J1-28

J1.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES J1-28

List of Tables

Spare Parts J1-18

Specialized Vehicles and Tools J1-18

Manuals, Drawings, and Records J1-19

Existing Secondary Meters J1-26

New Secondary Meters J1-26

Service Connections and Disconnections J1-28

System Deficiencies J1-28

J1 Robins AFB Electrical System

J1.1 Robins AFB Overview

In June 1941, the U.S. War Department gave official approval for construction of an Army Air Depot in Georgia. Construction of this facility, initially known as the Georgia Air Depot, began in September 1941. In December of that year, the bombing of Pearl Harbor increased the urgency of completion of this vital military facility. In August 1942, construction of the new airfield's industrial and cantonment areas were completed, and the second and third phases were completed by April 1943. From the base's opening through World War II, the depot's name changed several times, and it worked in conjunction with several satellite bases.

After the war, the satellite bases closed and the depot was renamed the Warner Robins Air Materiel Area (WRAMA), after Brigadier General Augustine Warner Robins, one of the Army Air Corps' first General Staff Officers and commander of the Fairfield Air Intermediate Air Depot (FAID), Ohio, from 1921 to 1928. The base's designation changed to its current form in 1974, when its new worldwide responsibilities led it to be renamed the Warner Robins Air Logistics Center (WR-ALC).

The basic mission of WR-ALC has not changed since its beginnings in 1941. The primary task of the Center is to maintain Air Force aircraft and their components. The methods of meeting this responsibility have changed only in the equipment itself and the complexity of the workload. Under the guidance of WR-ALC, the Center carries out repair, maintenance, supply, and other related logistics functions.

Robins Air Force Base (AFB) is located in Houston County and lies immediately east of the City of Warner Robins, approximately 16 miles south of Macon, Georgia. Robins AFB comprises approximately 8,855 acres and, as the State's largest industrial facility, supports approximately 25,000 military and civilian personnel. The host tenant at Robins AFB is Warner Robins Air Logistics Center (WR-ALC). There are over 40 military organizations that are currently active at Robins AFB.

WR-ALC is an integral member of the Air Force Materiel Command (AFMC) and is one of three ALCs in the Air Force. Currently, WR-ALC is tasked with providing worldwide logistics management, engineering, and maintenance of weapon systems including the C-5, C-17, F-15, C-141, and C-130 aircraft, and is the Avionics repair center of the Air Force with more than 20 major organizations supporting those activities. Other tenant units are also active at Robins AFB. These include the following:

- Headquarters Air Force Reserve Command (HQ-AFRC)
- 5th Combat Communications Group (CCG)
- 19th Air Refueling Group
- 116th Air Control Wing – JSTARS (ACW)
- 367th Recruiting Group

- Defense Distribution Depot – DLA (Contracted)
- Defense Megacenter Warner Robins
- Electronic Combat Support Flight
- Robins NCO Academy
- 339th Flight Test Squadron
- 653rd Combat Logistics Support Squadron

J1.2 Electrical Distribution System Description

J1.2.1 Electrical Distribution System Fixed Equipment Inventory

The Robins AFB 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 at 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, ductbank, switches, street lighting fixtures, security lights, parking area lights, recreational lights, high-mast lighting, including lighting in the “Christmas Tree” area adjacent to Building 12 (Alert Pad area), the Mass Parking Apron, 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, airfield lighting vaults, and all associated equipment.
- The Base supervisory control and data acquisition (SCADA) system, remote terminal units (RTUs), and associated equipment.
- Transmission, substation, and generating equipment on Base property that is owned and maintained by Georgia Power Company (GPC). This includes the combustion turbine plant (CT), three transforming substations, and an approximate 9.63-mile transmission loop.
- Circuitry downstream of GPC Substation No. 3, connecting PAVE PAWS and the CT plant.
- Meters, including mounting brackets, and any ancillary infrastructure, such as wires, terminations, etc., connecting the meters to the distribution system.
- Generators.

- Cathodic protection systems, and associated impressed current circuitry, rectifiers, and sacrificial anodes.

J1.2.1.1 Description

Robins Air Force Base (AFB) receives electric power from GPC through three 115-kilovolt (kV) transmission lines that feed into the GPC switching station, which in turn supplies power to the Base-owned substations at 9th Street and Milledgeville Street. At the 9th Street and Milledgeville Street substations, the 115 kV power is reduced for 12.47 kV distribution on Base by two 25.5 MVA transformers owned by GPC. The power is then fed into the Robins AFB substations main bus structure, which provides power to the feeder breakers. The on-Base power distribution system is monitored and controlled by a supervisory control and data acquisition (SCADA) system, which is not included with the electric distribution system being privatized. Robins AFB will not use the SCADA system after privatization to operate or control any system components without prior coordination with the Contractor. Robins AFB will work with the Contractor to institute necessary system safeguards and coordination procedures.

At the Milledgeville Street Substation, the power is distributed to the Base through sixteen 15-kV, 1,200-amp General Electric vacuum circuit breakers. The distribution feeders travel from the substation as underground circuits consisting primarily of 500-MCM copper conductors in concrete-encased duct banks, with final load taps being made up with predominantly #2 copper conductors.

At the 9th Street Substation, the power is distributed to the Base through eight 15-kV, 1,200-amp General Electric vacuum circuit breakers. The distribution feeders travel from the substation as underground and overhead circuits. The underground consists primarily of 500-MCM copper conductors in concrete-encased duct banks or directional boring conduits and final load taps being made up with predominantly #2 copper conductors. The overhead circuits consist of both aluminum and copper conductors.

The electric distribution system consists of 3-phase, 4-wire underground and overhead circuits. All circuits are looped to provide redundant capability to facilities. Underground circuits are buried in concrete-encased ductbank, with an average burial depth of approximately two (2) feet below ground surface. Overall, approximately 17 percent of the distribution system is underneath paved surfaces. Also included with the system are medium voltage (4160 V) secondary circuits that feed directly into high voltage equipment, including motors, chillers, boilers, etc. This does not include the circuit feeding the PAVE PAWS/CT Plant downstream of GPC substation No. 3.

No cathodic protection equipment is included with the electric system to be privatized. The point of demarcation is the line side of the disconnect switch closest to the rectifier. The disconnect switch is not included with the electric system subject to privatization.

Robins AFB has excavation restrictions in portions of the Industrial Area due to contamination of subsurface soils and groundwater from spills, leaks, and other releases that predate regulatory restrictions. This restricted excavation area houses machine shops, metal finishing, industrial waste treatments plant and associated underground piping, industrial materials storage, and drummed waste storage facilities. Implementation of the

remedy selected in the Excavation Plan for the Industrial Area is required in order to ensure the protection of personnel coming into contact with the site and to eliminate or minimize risk associated with the contamination. This area of the Base is 84% paved, behind security fencing, under building foundations or beneath streets. There is very limited potential for exposure to workers, visitors or trespassers in the area. The most likely scenario in which exposure to contaminated soils might occur is in the event of maintenance or construction activities requiring excavation of affected soil. Maps of the area and a copy of the Excavation Plan for Industrial Area will be supplied in the technical library.

Robins AFB's ability to distribute electric power is essential to its mission and security. A high emphasis is placed on Robins AFB's ability to operate and maintain its electric distribution system without interruption, and in the event of an outage, to return the system to service quickly. For example, to ensure uninterrupted service to mission-essential facilities, it may be necessary to enter energized utility manholes to perform system maintenance and emergency repairs. Degraded or interrupted electric service will negatively impact the ability of the base to meet its mission and productivity requirements.

Robins AFB also has the ability to generate its own electrical power. There is approximately 28 MW of generator capacity, of which, approximately 18 MW can be fed back into the system. There are two 3.3-megawatt (MW) diesel generators located on Base at the PAVE PAWS site. These generators provide emergency startup power to the GPC Turbine Plant. On a monthly basis, all Robins AFB owned generators are periodically run tested. The Contractor will be notified prior to operation in every instance. None of the Base's generators, the CT Plant, or associated transmission lines connecting these sites to GPC Substation #3, are included with the electric distribution system subject to privatization.

Robins AFB has a contract with GPC to receive a capacity credit for peak shaving. The Contractor will be required to support the Base's program and not negatively impact the capacity credit that can be earned by Robins AFB.

The following electrical distribution projects were awarded at end of FY 2003. This projects will be accomplished by the Government. Changes resulting from these projects ARE NOT reflected in the inventory shown in Table 1.

- UHHZ 960093, Rpr Circuit #7, 9th Street Substation, Project Description: Project will provide replacement of 12,470 volt overhead primary circuit with underground circuit. Work includes demolition of existing pole lines, installation of new 5" duct (trenched concrete encased and/or directional boring), approximately 600 clf of 15kv conductor, manholes, transformers, and 15KV switches.
- UHHZ 9703770A/B, Rpr Circuit #2, 9th Street Substation, Project Description: Project will provide replacement of 12,470 volt overhead primary circuit with underground circuit. Work includes demolition of existing pole lines, installation of new 5" duct (trenched concrete encased and/or directional boring), approximately 620 clf of 15kv conductor, manholes, transformers, and 15KV switches.
- UHHZ 960092A, Rpr "D" Street Substation (Balance Load, "D" Street Substation), Project Description: Project will provide addition of new bay in substation. Work includes installation of two new 15KV vacuum circuit breakers, 1,000 feet of 5-inch duct (trenched

concrete encased and/or directional bored), 480 clf of 500 MCM cable, and 240 clf of 4/0 cable.

Key facilities projects planned for Robins AFB will increase the total square footage of buildings on Base and the resulting electric demand. However, the electric distribution system has the capacity to meet a demand of 90 MW with the existing transformers. To reach this level would require a demand increase greater than 50 percent over current levels. Should the requirements of the electric distribution system increase to current capability, it would be relatively easy to replace the existing transformers with larger ones. The individual feeder circuits are also more than capable of meeting large increases in demand. The average feeder carries less than 3 MW and is capable of carrying 10 MW.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Robins AFB electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
MAIN BASE				
Switch Stations				
D-Street Station				
Circuit Breaker, vacuum	15 kV, 1200 A	16	ea	1995
Single Phase Hookstick Switch	600 A	96	ea	1995
Three Phase Gang switch	600 A	16	ea	1995
Main Power Switch	2,000 A	2	ea	1995
Potential Transformer, estimated size	13 to 26 kVA	6	ea	1995
Insulators		216	ea	1995
Sta. Service Transformer	25 kVA	2	ea	1995
Surge Arrestor		48	ea	1995
Terminators		48	ea	1995
Fencing, galv., chain link	8 ft.	600	lf	1985
Lighting Poles, Al	30 ft	4	ea	1985
Lighting, High Press. Sodium	400W	4	ea	1985
Crushed Gravel with Compaction, 6-8 in. deep		400	sy	1971
Station Grounding Grid	#4/0 CU	4,320	lf	1971

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Station Bus Work, 660 ft	3" sch 40 CU	5,755	lb	1995
Foundation for Bus Work	2 X (65' X 4')	520	sf	1995
9th Street Substation				
Circuit Breaker, vacuum	15 kV, 1200 A	8	ea	1995
Single Phase Switch	600 A	48	ea	1995
Three Phase Gang switch	600 A	8	ea	1995
Main Power Switch	2000 A	1	ea	1995
Sta. Service Transformer	15kV	1	ea	1995
Potential Transformer, estimated size	13 to 26 kVA	3	ea	1995
Insulators		108	ea	1997
Surge Arrestor		24	ea	1997
Terminator		24	ea	1997
Fencing, galv., chain link	8 ft	600	lf	2003
Lighting Poles, Al	30 ft	4	ea	1995
Lighting, High Press. Sodium	400W	4	ea	1995
Crushed Gravel with Compaction, 6-8 in. deep		400	sy	1971
Station Grounding Grid	#4/0 CU	4,320	lf	1971
Station Bus Work, 336 ft	1.75" sch 40 CU	1,414	lb	1995
Foundation for Bus Work	2 X (65' X 4')	520	sf	1995
UG Circuits 9-1 through 9-8				
3ph, 3w, 15000V, CU, in conduit, scf	500 MCM XLP	5,495	lf	1985
3ph, 3w, 15000V, CU, in conduit, scf	500 MCM XLP	97,237	lf	1995
3ph, 3w, 15000V, CU, in conduit, scf	500 MCM XLP	50,119	lf	2001
600V, CU, in conduit, scf	4/0 THHN	1,832	lf	1985
600V, CU, in conduit, scf	4/0 THHN	32,412	lf	1995
600V, CU, in conduit, scf	4/0 THHN	16,533	lf	2001
3ph, 3w, 15000V, CU, in conduit, scf	#2 XLP	16,432	lf	1985
3ph, 3w, 15000V, CU, in conduit, scf	#2 XLP	24,615	lf	1995

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Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	21,324	lf	2001
600V, CU, in conduit, sclf	#2 THHN	10,885	lf	1985
600V, CU, in conduit, sclf	#2 THHN	8,659	lf	1995
600V, CU, in conduit, sclf	#2 THHN	13,391	lf	2001
OH Circuits 9-1 through 9-8				
3ph, 4w, 15000V, CU, sclf	#6 OH CU	8,363	lf	1985
3ph, 4w, 15000V, CU, sclf	#6 OH CU	10,467	lf	1995
3ph, 3w, 15000V, ACSR, sclf	397.5 OH ACSR	37,266	lf	1985
3ph, 3w, 15000V, ACSR, sclf	397.5 OH ACSR	4,937	lf	1995
Neutral, ACSR, sclf	1/0 ACSR	12,422	lf	1985
Neutral, ACSR, sclf	1/0 ACSR	1,646	lf	1995
3ph, 4w & 1ph, 2w, 15000V, ACSR, sclf	1/0 ACSR	11,287	lf	1985
3ph, 4w & 1ph, 2w, 15000V, ACSR, sclf	1/0 ACSR	7,900	lf	1995
3ph, 4w, 15000V, ACSR, sclf	#4 ACSR	3,470	lf	1985
3ph, 4w, 15000V, ACSR, sclf	#4 ACSR	170	lf	1995
3ph, 4w, 15000V, ACSR, sclf	#2 ACSR	13,166	lf	1985
3ph, 4w, 15000V, ACSR, sclf	#2 ACSR	1,981	lf	1995
UG Circuits D-1 through D-8				
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	121,224	lf	1985
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	114,314	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	40,741	lf	1985
600V, CU, in conduit, sclf	4/0 THHN	38,105	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	58,285	lf	1985
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	36,664	lf	1995
600V, CU, in conduit, sclf	#2 THHN	19,701	lf	1985
600V, CU, in conduit, sclf	#2 THHN	12,938	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	4/0 XLP	1,806	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	602	lf	1995

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
UG Circuits D-9 through D-16				
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	28,101	lf	1985
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	179,845	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	1,001	lf	2002
600V, CU, in conduit, sclf	4/0 THHN	9,367	lf	1985
600V, CU, in conduit, sclf	4/0 THHN	59,949	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	333	lf	2002
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	19,617	lf	1985
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	107,388	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	1,550	lf	2002
600V, CU, in conduit, sclf	#2 THHN	6,539	lf	1985
600V, CU, in conduit, sclf	#2 THHN	40,204	lf	1995
600V, CU, in conduit, sclf	#2 THHN	743	lf	2002
3ph, 3w, 15000V, CU, in conduit, sclf	4/0 XLP	6,062	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	4/0 XLP	606	lf	2002
600V, CU, in conduit, sclf	4/0 THHN	2,195	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	219	lf	2002
Switches				
Switch, Pad-mounted, 4-way, Load-break	600A	79	ea	1985
Switch, Pad-mounted, 4-way, Load-break	600A	195	ea	1995
Switch, Pad-mounted, 4-way, Load-break	600A	33	ea	2001
Switch, Pad-mounted, 4-way, Load-break	600A	2	ea	2002
Switch, OH AIR, Pole-mounted	600A	16	ea	1985
Switch, OH AIR, Pole-mounted	600A	1	ea	1995
Switch, OH AIR, Pole-mounted	600A	5	ea	2001
Transformers				
Transformer, 1-Phase, Pad-mounted, 120/240V	15 kVA	2	ea	1985

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Transformer, 1-Phase, Pad-mounted, 120/240V	15 kVA	2	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	15 kVA	1	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	2	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	5	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	4	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	2	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	4	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	1	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	1	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	2	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	3	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	1	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	100 kVA	2	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	167 kVA	2	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	167 kVA	1	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	45 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	45 kVA	4	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	75 kVA	9	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	75 kVA	18	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	75 kVA	9	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	112.5 kVA	7	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	112.5 kVA	5	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	150 kVA	8	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	150 kVA	11	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	150 kVA	4	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	150 kVA	2	ea	2002
Transformer, 3-Phase, Pad-mounted, 120/208V	225 kVA	3	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	225 kVA	16	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	225 kVA	9	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	225 kVA	2	ea	2002

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Transformer, 3-Phase, Pad-mounted, 120/208V	300 kVA	9	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	300 kVA	4	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	300 kVA	7	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	500 kVA	2	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	500 kVA	1	ea	1995
Transformer, 3-Phase, Pad-mounted, 120/208V	500 kVA	2	ea	2001
Transformer, 3-Phase, Pad-mounted, 120/208V	750 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 120/208V	1000 kVA	2	ea	1995
Transformer, 3-Phase, Pad-mounted, 2300V	1500 kVA	1	ea	1995
Transformer, 3-Phase, Pad-mounted, 2400/4160V	1000 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 2400/4160V	1500 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 2400/4160V	2000 kVA	1	ea	1995
Transformer, 3-Phase, Pad-mounted, 2400/4160V	2500 kVA	1	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	45 kVA	1	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	45 kVA	1	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	75 kVA	2	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	75 kVA	5	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	75 kVA	2	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	75 kVA	1	ea	2002
Transformer, 3-Phase, Pad-mounted, 277/480V	112.5 kVA	2	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	112.5 kVA	5	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	150 kVA	6	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	150 kVA	12	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	150 kVA	2	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	225 kVA	3	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	225 kVA	7	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	225 kVA	1	ea	2002
Transformer, 3-Phase, Pad-mounted, 277/480V	300 kVA	9	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	300 kVA	15	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	300 kVA	5	ea	2001

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Transformer, 3-Phase, Pad-mounted, 277/480V	500 kVA	20	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	500 kVA	24	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	500 kVA	6	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	500 kVA	2	ea	2003
Transformer, 3-Phase, Pad-mounted, 277/480V	750 kVA	12	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	750 kVA	27	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	750 kVA	4	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	1000 kVA	8	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	1000 kVA	21	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	1000 kVA	1	ea	2001
Transformer, 3-Phase, Pad-mounted, 277/480V	1000 kVA	1	ea	2002
Transformer, 3-Phase, Pad-mounted, 277/480V	1500 kVA	8	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	1500 kVA	19	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	2000 kVA	8	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	2000 kVA	8	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	2500 kVA	4	ea	1985
Transformer, 3-Phase, Pad-mounted, 277/480V	2500 kVA	7	ea	1995
Transformer, 3-Phase, Pad-mounted, 277/480V	3000 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 4160V	2500 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 4160V	2500 kVA	2	ea	1995
Transformer, 3-Phase, Pad-mounted, 480V	750 kVA	1	ea	1985
Transformer, 3-Phase, Pad-mounted, 480V	2000 kVA	3	ea	1995
Transformer, 3-Phase, Pad-mounted, 480V	2500 kVA	1	ea	1995
Transformer, 1-Phase, Pad-mounted, 240/480V	25 kVA	3	ea	1985
Transformer, 1-Phase, Pad-mounted, 240/480V	25 kVA	1	ea	2002
Transformer, 1-Phase, Pad-mounted, 240/480V	25 kVA	1	ea	2003
Transformer, 1-Phase, Pad-mounted, 240/480V	37.5 kVA	1	ea	1985
Transformer, 1-Phase, Pad-mounted, 240/480V	500 kVA	1	ea	1995
Switch, Pad-mounted, 4-way, Load-break	600A	3	ea	1995

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Switch, Pad-mounted, 4-way, Load-break	600A	6	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	1	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	5	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	2	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	16	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	39	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	9	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	5	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	7	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	17	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	1	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	12	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	100 kVA	1	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	25-50 kVA	20	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	25-50 kVA	23	ea	2001
Transformer, 1-Phase, Pole-mounted, 120/240V	10 kVA	21	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	15 kVA	23	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	25 kVA	44	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	37.5 kVA	27	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	50 kVA	11	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	75 kVA	14	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	100 kVA	1	ea	1985
Accessories, Transformers & Switches				
Cable Terminations		1,224	ea	1985
Cable Terminations		2,544	ea	1995
Cable Terminations		552	ea	2001
Cable Terminations		58	ea	2002
Cable Terminations		14	ea	2003

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Grounding Rods		467	ea	1985
Grounding Rods		1,022	ea	1995
Grounding Rods		200	ea	2001
Grounding Rods		17	ea	2002
Grounding Rods		3	ea	2003
Lightning Arrestors		360	ea	1985
Lightning Arrestors		669	ea	1995
Lightning Arrestors		171	ea	2001
Lightning Arrestors		21	ea	2002
Lightning Arrestors		6	ea	2003
Pads, Concrete, est. size	5' X 5'	214	ea	1985
Pads, Concrete, est. size	5' X 5'	436	ea	1995
Pads, Concrete, est. size	5' X 5'	96	ea	2001
Pads, Concrete, est. size	5' X 5'	11	ea	2002
Pads, Concrete, est. size	5' X 5'	3	ea	2003
Poles				
Utility Poles	40-ft	141	ea	1985
Down guys and anchors, estimated size and quantity		70	ea	1985
Street Light & Parking Lot Light Poles, Aluminum	30-ft	616	ea	1985
Street Light & Parking Lot Light Poles, Aluminum	30-ft	616	ea	1995
MASS PARKING AREA, Light Pole, Steel	80-ft	12	ea	1975
MASS PARKING AREA, Light Pole, Steel	80-ft	5	ea	1995
ALERT AREA, Light Pole, Steel	60-ft	2	ea	1985
ALERT AREA, Light Pole, Steel	80-ft	9	ea	1985
ALERT AREA, Light Pole, Wood	30-ft	55	ea	1985
OLD WSA, Light Pole, Wood	30-ft	65	ea	1985
SPORTS LIGHTING, Light Pole, Concrete	45-ft	4	ea	2002
SPORTS LIGHTING, Light Pole, Concrete	52-ft	7	ea	2002
SPORTS LIGHTING, Light Pole, Concrete	60-ft	14	ea	2002

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
SPORTS LIGHTING, Light Pole, Concrete	72-ft	8	ea	2002
SPORTS LIGHTING, Light Pole, Concrete	75-ft	16	ea	2002
SPORTS LIGHTING, Light Pole, Wood	60-ft	6	ea	1995
SPORTS LIGHTING, Light Pole, Aluminum	50-ft	16	ea	2002
Light Poles, High Mast	100-ft	2	ea	1995
Light Poles, High Mast	100-ft	44	ea	2002
Light Fixtures				
Street Light & Parking Lot Light Fixtures	250-400W HPS	950	ea	1985
Street Light & Parking Lot Light Fixtures	250-400W HPS	950	ea	1995
MASS PARKING AREA, Light Fixtures	1000W HPS	79	ea	1975
MASS PARKING AREA, Light Fixtures	1000W HPS	30	ea	1995
ALERT AREA, Light Fixtures	1500W MH	74	ea	1985
ALERT AREA, Light Fixtures	250W HPS	48	ea	1985
ALERT AREA, Light Fixtures	1000W MH	14	ea	1985
OLD WSA, Light Fixtures	250W HPS	68	ea	1985
SPORTS LIGHTING, Light Fixtures	1500W MH	44	ea	1995
SPORTS LIGHTING, Light Fixtures	1000W MH	257	ea	1995
Light Fixtures, High Mast Poles	1000-1500W HPS	20	ea	1995
Light Fixtures, High Mast Poles	1000-1500W HPS	454	ea	2002
Lowering Devices, High Mast Poles		2	ea	2002
Utility Manholes				
Utility Vaults, estimated size	8' X 8' X 7'	325	ea	1985
Utility Vaults, estimated size	8' X 8' X 7'	350	ea	1995
Utility Vaults, estimated size	8' X 8' X 7'	20	ea	2000
Handholes		34	ea	1995
Splices, estimated 6 per manhole		1,950	ea	1985
Splices, estimated 6 per manhole		2,100	ea	1995
Splices, estimated 6 per manhole		120	ea	2000

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
HOUSING				
UG Circuits 9-1 through 9-8	500 MCM XLP	4,531	If	1985
3ph, 3w, 15000V, CU, in conduit, scf	500 MCM XLP	4,454	If	1995
3ph, 3w, 15000V, CU, in conduit, scf	500 MCM XLP	46,263	If	2001
600V, CU, in conduit, scf	4/0 THHN	1,510	If	1985
600V, CU, in conduit, scf	4/0 THHN	1,485	If	1995
600V, CU, in conduit, scf	4/0 THHN	15,261	If	2001
3ph, 3w, 15000V, CU, in conduit, scf	#2 XLP	8,871	If	1985
3ph, 3w, 15000V, CU, in conduit, scf	#2 XLP	2,422	If	1995
3ph, 3w, 15000V, CU, in conduit, scf	#2 XLP	19,684	If	2001
600V, CU, in conduit, scf	#2 THHN	5,857	If	1985
600V, CU, in conduit, scf	#2 THHN	1,409	If	1995
600V, CU, in conduit, scf	#2 THHN	12,361	If	2001
OH Circuits 9-1 through 9-8				
3ph, 4w, 15000V, CU, scf	#6 OH CU	5,577	If	1985
3ph, 4w, 15000V, CU, scf	#6 OH CU	2,631	If	1995
3ph, 3w, 15000V, ACSR, scf	397.5 OH ACSR	22,297	If	1985
3ph, 3w, 15000V, ACSR, scf	397.5 OH ACSR	6,543	If	1995
Neutral, ACSR, scf	1/0 ACSR	7,432	If	1985
Neutral, ACSR, scf	1/0 ACSR	2,181	If	1995
3ph, 4w & 1ph, 2w, 15000V, ACSR, scf	1/0 ACSR	14,961	If	1985
3ph, 4w & 1ph, 2w, 15000V, ACSR, scf	1/0 ACSR	10,473	If	1995
3ph, 4w, 15000V, ACSR, scf	#4 ACSR	1,704	If	1985
3ph, 4w, 15000V, ACSR, scf	#4 ACSR	224	If	1995
3ph, 4w, 15000V, ACSR, scf	#2 ACSR	8,182	If	1985
3ph, 4w, 15000V, ACSR, scf	#2 ACSR	2,627	If	1995

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
UG Circuits D-9 through D-16				
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	10,846	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	500 MCM XLP	1,085	lf	2002
600V, CU, in conduit, sclf	4/0 THHN	3,615	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	362	lf	2002
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	16,796	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	#2 XLP	1,680	lf	2002
600V, CU, in conduit, sclf	#2 THHN	8,050	lf	1995
600V, CU, in conduit, sclf	#2 THHN	805	lf	2002
3ph, 3w, 15000V, CU, in conduit, sclf	4/0 XLP	6,568	lf	1995
3ph, 3w, 15000V, CU, in conduit, sclf	4/0 XLP	657	lf	2002
600V, CU, in conduit, sclf	4/0 THHN	2,377	lf	1995
600V, CU, in conduit, sclf	4/0 THHN	238	lf	2002
Switches				
Switch, Pad-mounted, 4-way, Load-break	600A	3	ea	1995
Switch, Pad-mounted, 4-way, Load-break	600A	6	ea	2001
Transformers				
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	1	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	25 kVA	5	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	2	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	16	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	37.5 kVA	39	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	9	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	5	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	50 kVA	7	ea	2002
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	17	ea	1985
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	1	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	75 kVA	12	ea	2002

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
Transformer, 1-Phase, Pad-mounted, 120/240V	100 kVA	1	ea	2001
Transformer, 1-Phase, Pad-mounted, 120/240V	25-50 kVA	20	ea	1995
Transformer, 1-Phase, Pad-mounted, 120/240V	25-50 kVA	23	ea	2001
Transformer, 1-Phase, Pole-mounted, 120/240V	10 kVA	21	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	15 kVA	23	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	25 kVA	44	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	37.5 kVA	27	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	50 kVA	11	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	75 kVA	14	ea	1985
Transformer, 1-Phase, Pole-mounted, 120/240V	100 kVA	1	ea	1985
Accessories, Transformers & Switches				
Cable Terminations		52	ea	1985
Cable Terminations		64	ea	1995
Cable Terminations		128	ea	2001
Cable Terminations		126	ea	2002
Grounding Rods		26	ea	1985
Grounding Rods		35	ea	1995
Grounding Rods		70	ea	2001
Grounding Rods		63	ea	2002
Lightning Arrestors		141	ea	1985
Lightning Arrestors		-	ea	1995
Lightning Arrestors		-	ea	2001
Lightning Arrestors		-	ea	2002
Pads, Concrete, est. size	5' X 5'	26	ea	1985
Pads, Concrete, est. size	5' X 5'	26	ea	1995
Pads, Concrete, est. size	5' X 5'	52	ea	2001
Pads, Concrete, est. size	5' X 5'	63	ea	2002

TABLE 1
Fixed Inventory
Electrical Distribution System Robins AFB

Component	Size	Estimated Quantity	Unit	Approximate Year of Construction
3ph, 3w = 3 phase, 3-wire A = amperes cy = cubic yard ea = each	ft = foot HPS = high pressure sodium lf = linear foot lb = pound SCLF = single conductor linear foot	sf = square foot sy = square yard kVA = kilovolt-amperes V = volts W = watts		

J1.2.2 Electrical 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
Electrical Distribution System Robins AFB

Qty	Item	Make/Model	Description	Remarks
No spare parts are included with the system to be privatized				

TABLE 3
Specialized Vehicles and Tools
Electrical Distribution System Robins AFB

Qty	Item	Make/Model	Description	Remarks
2	Lowering device for High Mast Lighting	Holophane LD5		

J1.2.3 Electrical 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
Electrical Distribution System Robins AFB

Qty	Item	Description	Remarks
1	Drawings	Base Comprehensive Plan G-Tab for the Electric Distribution System, 1:200 scale drawings, one for each Base Map Grid, dated 30 April 2001	Electrical drawings have been recently scanned. A comprehensive GPS survey of electrical system components is on-going.
1	Drawings	Base Comprehensive Plan G-Tab for Cathodic Protection Systems, 1:200 scale drawings, one for each Base Map Grid, dated 30 April 2001	
1	O&M Manuals	Inspection logs, contingency plans, procedures, construction and architectural standards will be made available for copy, to the Contractor.	
1	Equipment Manuals	Where available, manuals for installed equipment will be transferred with the system.	

J1.3 Specific Service Requirements

The service requirements for the Robins AFB electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Robins AFB 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 SCADA system is not included with the electric system being privatized. The Government shall retain ownership of the sensors, communications, and other equipment associated with the SCADA system. The SCADA system may be used by the Government to monitor electric facilities. The Government will maintain the sensors, antennas, and other communications, and associated ancillary equipment. The Contractor may purchase, install, operate, and maintain a SCADA system.
- IAW Paragraph C.5.1.3, Roads are not to be cut without permission of Base Civil Engineer, Chief Engineering Division or higher. The standard is to bore or jack conduits and pipes under roads versus cutting the pavement. Jack and bore is the preferred method for provision of new utility lines under existing pavement. However, consideration will be given to cutting existing pavement and trenching during the building of the project requirements/ project programming; especially for Military Family housing. The Execution method determined during the Design Phase must also consider project cost impacts, age and condition of existing pavement, mission

impacts/cost avoidance, urgency of need, weather, and land ownership of areas which border Air Force property (e.g., School Zone, etc).

- All new and replacement underground circuits will be 500 MCM CU, unless otherwise agreed to by the Contractor and the Government. All new and replacement underground taps (from utility manhole to transformer) will be #2 CU, unless otherwise agreed to by the Contractor and the Government.
- The Contractor shall not use T-splices on the electrical distribution system. The Contractor shall install switches with new pad-mount transformers if current spare switch leg is not available at service taps for isolation and repair.
- For all privatized lighting fixtures, operations and maintenance of lighting fixtures includes the purchase and replacement of all necessary lighting components (such as lighting fixtures, elements, bulbs, ballast, etc.) and the removal and disposal of replaced lighting components in accordance with environmental regulations.
- The Contractor shall coordinate any changes to streetlights or security lights that may effect blackout procedures during government operations (See C9.8) with the Base Civil Engineer.
- Upon reasonable request and with reasonable notice from the Base Civil Engineer, the Contractor shall provide escorted tours to provide instruction and demonstration of electric distribution system operations, maintenance and construction. The electric distribution system includes substations, transformers, other electric system devices, and the Contractor's shop(s) and storage areas.
- IAW Paragraph C.9.8, Exercises and Crisis Situations Requiring Utility Support, the Contractor shall cooperate with the Base to execute a "Black Start" of the Combustion Turbine Plant as defined in Annex N, Paragraph 2 of the *Base Civil Engineer Contingency Response Plan, April 2002*. The above-mentioned test, "Black Start", must be accomplished on an annual basis.
- The Contractor shall support and adhere to the Base's electricity curtailment program as required by Annex B to the *Robins AFB Air Force Base Plan for Curtailment of Utility Services and Motor Fuels (RAFB Plan 91, July 2001)*. This Plan describes the requirements and procedures for switching from off-base supplied electricity to on-base supplied electricity. The Contracting Officer, or other representative(s) as designated by the Contracting Officer, will notify the Contractor when the curtailment program is to be put into effect. The Contractor shall support Robins AFB generator paralleling program to include regular scheduled run testing and actual paralleling operation.
- Robins AFB is under contract with GPC to provide electrical power as required during peak usage times. Robins AFB must provide power to the base electrical system within 30 minutes of notification by GPC. Failure to do so can result in monetary penalties to the base. In the event the Contractor distribution system causes Robins AFB to be unable to adequately provide power to the base system in accordance with the agreement with GPC, the government reserves the right to assess the Contractor for any penalties and/or lost credits (or other form of reimbursement) resulting from inability of the Contractor's electrical distribution system to support the request.

- IAW the ROW, the Contractor shall enter into an agreement with the GPC for access to the Government-owned 3-phase circuit strung on GPC-owned utility poles, which also contain a GPC-owned circuit feeding their No. 3 Substation. Only the Government-owned 3-phase circuit is included with the electric distribution system to be privatized.
- All circuits at Robins AFB are looped, except part of circuit seven from the 9th Street Substation, to provide redundant capabilities to facilities. The Contractor shall maintain this redundant looping arrangement. The Contractor shall coordinate any changes to looped circuits with the Base Civil Engineer. In the event of any outage of circuit 7 from the 9th street substation, Contractor shall notify CE service call, 926-5657, immediately to prevent flooding in Building 1400 caused by power loss.
- IAW Paragraph C.9, Coordination of Work, the Contractor shall coordinate planned outages using the Civil Engineer Outage Form.
- IAW Condition C of Attachment 1 to the ROW, the Contractor shall follow the Base digging permit process. The Contractor shall obtain all necessary authorizations, permits and line locates prior to performing any excavations on Base.
- In addition to Section 8 of the ROW, the utility contractor (grantee) shall repair at no cost to the Government any utilities improperly marked by the contractor and subsequently damaged as a result of the incorrect marking by other contractors or Government organizations working in the area. Property damaged by the contractor in the conduct of his business shall be corrected in accordance with ROW section 8.
- The Contractor shall support the Base digging permit process by routinely accepting and promptly processing digging permit requests which may impact on the integrity of the Contractor's utility system and/or the safety of the requestors. The Contractor shall be a participant of the Base digging permit process and shall attend any meetings called in support of the process. Contractor shall be responsible to locate and mark their utilities in the affected areas. The digging permit process involves weekly attendance at the scheduled meeting and subsequent appointments for location and marking of utilities throughout the week.
- The Contractor shall comply with the Robins AFB Excavation Plan for the Industrial Area. The Contractor shall be knowledgeable of and in compliance with the Plan's requirements at all stages of any excavation in the areas covered by the Plan.
- IAW Section 12 of the ROW, the Contractor is responsible for all supporting utilities that may be required to own, operate and maintain the utility system subject to privatization. For example, electricity is needed to power substation lighting. Supporting utilities are defined as the supply of electricity, natural gas, water, or wastewater collection, and any infrastructure or materials necessary to connect to the supply of electricity, natural gas, water, or wastewater collection. The Contractor shall coordinate with the Robins AFB Civil Engineer and the Contracting Officer for any supporting utilities to be provided by the Government.
- The Contractor shall enter into a Memorandum of Understanding (MOU) with the Base Fire Department for fire protection of all facilities included in the purchase of the utility.

The MOU shall be completed during the transition period and a copy provided to the Contracting Officer.

- The Contractor shall abide by Base fire protection requirements. The utility system purchased by the Contractor includes facilities. These facilities may or may not include fire alarm systems. Where required by federal, state or local regulation, the Contractor shall maintain the fire alarm system for all facilities owned and operated by the Contractor. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.
- IAW Paragraph C.9.8, Exercises and Crisis Situations Requiring Utility Support, the Contractor shall provide support as directed by Base Civil Engineer Control Center for exercises and crisis situations.
- The Contractor shall ensure that employees understand, implement and enforce Force Protection Condition (FPCON) requirements specified in AFI 10-245. The Contractor is advised that FORCE PROTECTION conditions vary and that these changes may cause delays in access to Robins AFB. These conditions are outlined in the Robins AFB FPCON Checklist. This checklist will be available in the technical library. The Contractor will plan accordingly to provide uninterrupted support. Compliance with and staffing in support of FORCE PROTECTION condition changes shall not result in service charge adjustments to the contract.
- IAW Section 8 of the ROW, the Contractor shall maintain existing security mechanisms (i.e. locks, fences) to protect the utility systems. The security mechanisms should prevent tampering and sabotage. Should the Contractor become aware of any suspicious incident, security breach or act of sabotage at or against the utility system, or any of its associated facilities, they will immediately contact the 78th Security Police Squadron and 78th Civil Engineer Squadron.
- Due to heightened security concerns on military installations, all Contractor and subcontractor personnel who must enter Robins AFB to perform this contract must undergo a background check. Background checks will be conducted using the following information: name, drivers license number, social security number, and date of birth. These procedures are considered permanent. Any Contractor or subcontractor employee that does not consent to this background investigation will not be allowed access to Robins AFB. Additionally, access to RAFB is governed by specific procedures contained in RAFB SFOI 31-8, this operating instruction has specific instructions on how employees are to be granted access to RAFB. This document will be available for review in the technical library. Any derogatory information resulting from the investigation, or which otherwise becomes known to the contracting officer, may also result in such individuals being prevented from entering the installation. However, nothing in this requirement shall excuse the Contractor from proceeding with any resulting contract as required.
- The Contractor shall ensure their employees, and those of their subcontractors, have the proper credentials allowing them to work in the United States. Employees must have valid Social Security Cards. Non-US Citizens must have current and valid permission from the Bureau of Immigration and Naturalization. Persons found to be undocumented

or illegal aliens will be remanded to the proper authorities. The Contractor shall not be entitled to any compensation for delays or expenses associated with complying with the provisions of this requirement. Contractor personnel and their subcontractors must identify themselves as Contractors or subcontractors during meetings, telephone conversations, in electronic messages, or correspondence related to this contract. Contractor occupied facilities on Robins AFB such as offices, separate rooms, or cubicles must be clearly identified with Contractor-supplied signs, name plates or other identification, showing that these are work areas for Contractor or subcontractor personnel.

- **Material Deliveries:** All Contractor and subcontractor deliveries to Robins AFB shall be made using Gate 4 (Truck Gate). Deliveries made when Gate 4 is not open shall be coordinated in advance with the Security Police Forces. To gain entry, the driver must have a valid drivers license rated for the vehicle being driven, proof of insurance, social security number, and the name and phone number of the person charged with receiving the delivery. In some cases, an escort may be required to assist drivers in completing their deliveries. Cost of escorts shall not be borne by the government. Drivers are required to exit the base as soon as practical after completing the delivery. After notification, Contractor shall respond (onsite) to emergency service requests as soon as possible but within 45 minutes for the facilities listed in Annex H to the *Base Civil Engineer Contingency Response Plan, April 2002*. The Contractor's representative that responds shall be knowledgeable of the utility system and the Contractor's Service Interruption/Contingency Plan. The representative shall be able to assess damages and estimate the time it will take to make temporary or full-service repairs. For all other reported outages the Contractor shall respond as soon as possible but in no event in excess of the response times stated in section C.8. IAW Paragraph H.6, Rights of the Government to Perform Function with Its Own Personnel, the government reserves the right to substitute or supplement the Contractor's efforts during emergency situations where the Contractor's failure or inability to perform is beyond the Contractor's control and without the Contractor's fault or negligence. In this situation, the Contractor would not be held responsible for costs incurred by the government. However, the Contractor could be held financially responsible if the government substitutes or supplements the Contractor's efforts during emergency situations and the Contractor's failure or inability to perform was the result of the fault or negligence of the Contractor.
- The monthly credit to the Government for delayed response times shall be proposed (L.9.6.5), evaluated (M.4.6.4), and any actual credit calculated based on the definition of response time as: initial response by the knowledgeable representative, repair crew response, condition downgrade, and service restoration as described in section C.8 and/or attachment section J.1.3.
- The Contractor shall notify WR-ALC/SEG (Safety Office) and the Contracting Officer, or a designated Government Representative (GR) within one (1) hour of all mishaps or incidents at or exceeding \$2,000 (material + labor) in damage to DOD property entrusted by this contract. This notification requirement shall also include physiological mishaps/incidents. A written or e-mail copy of this mishap/incident notification shall be sent within three calendar days to the GR, who will forward it to WR-ALC/SEG (Safety Office). For information not available at the time of initial notification, the

Contractor shall provide the remaining information not later than 20 calendar days after the mishap, unless extended by the Contracting Officer. Mishap notifications shall contain, as a minimum, the following information:

- (a) Contract, Contract Number, Name and Title of Person(s) Reporting
 - (b) Date, Time and exact location of mishap/incident
 - (c) Brief Narrative of mishap/incident (Events leading to accident/incident)
 - (d) Cause of mishap/incident, if known
 - (e) Estimated cost of mishap/incident (material and labor to repair/replace)
 - (f) Nomenclature of equipment and personnel involved in mishap/incident
 - (g) Corrective actions (taken or proposed)
 - (h) Other pertinent information.
- If requested by Government Personnel or designated government representative, the Contractor shall immediately secure the mishap scene/damaged property and impound pertinent maintenance and training records, until released by the WR-ALC Safety Office. Also, the Contractor and their subcontractors shall cooperate fully and assist government personnel until the investigation is finalized and closed out. Safety requirements listed in this package that do not relate to the Contractor's operations or services shall be considered self-deleting as mutually agreed by the Contractor and the Contracting Officer.
 - The Contracting Officer is the only individual authorized to incur Government obligations and to make changes to contracts. The Administrative Contracting Officer (ACO) may make certain obligations and changes as provided by the Federal Acquisition Regulation part 42.302 (and supplements) or as may be specifically designated in writing by the Procuring CO. The Contracting Officer's Technical Representative (COTR), if designated, is strictly limited to the authority described in the designation letter executed by the CO. The Installation Commander's duly authorized representative is strictly limited to the tasks described and under no circumstance is authorized to incur additional obligations on behalf of the Government. The Defense Energy Support Center (DESC) is the procuring agent, and after appropriate post-award contract management transition, the Contracting Directorate, Warner Robins Air Logistics Center, shall assume the procuring and administration contracting authority.
 - IAW Condition F of Attachment 1 to the ROW, the Contractor shall be responsible for grounds maintenance of all areas within the boundaries of the ROW in accordance with base standards.
 - IAW ROW, the Contractor shall not deliberately injure or kill protected species of wildlife (i.e., non-domesticated animals) without permission from the Contracting Officer, or other representative(s) as designated by the Contracting Officer.
 - IAW Condition J of Attachment 1 to the ROW, the provisions of ROW Sections 15, 17 and 18 also cover sites identified under the Resource Conservation Recovery Act

(RCRA) Corrective Action and the Georgia Environmental Protection Division Underground Storage Tank (UST) program.

- An EBS was completed in 1999 for the Electrical Distribution System (see ROW, Exhibit C). In accordance with Air Force Policy, if the Air Force requires the Contractor to conduct an EBS during the transition period, the cost of the EBS will be paid by the Air Force. However, if such a document is required and prepared upon expiration, termination, or abandonment of the Right-of-Way, the Grantee will prepare another EBD, in accordance with the Grantor's standards and requirements, and the Grantor and the Grantee will share the cost of the survey equally. The Government will not be liable for the cost of an EBS that is not specifically authorized by the Contracting Officer.
- The Contractor shall not perform alterations to any building or structure deemed to be eligible or potentially eligible for placement on the National Register of Historic Places until approved by said officer.

J1.4 Current Service Arrangement

Robins AFB currently purchases electrical power from Georgia Power Company (GPC). Robins AFB also has the ability to generate its own power using on-base generators that are connected to backfeed power into the grid. The Air Force however, may enter into agreements in the future to purchase power from other wholesalers.

Current annual electric power consumption at Robins AFB is approximately 275 million kilowatt-hours (kWh). The peak demand during fiscal year (FY) 1998 was nearly 51,000 KW, which occurred in July 1998 when facility cooling was at a peak. Monthly consumption ranges from approximately 18-million kWh in the winter months to approximately 28-million kWh during the summer months. The annual consumption in FY 2002 was 277 million kWh, with monthly consumption ranging between 19 and 28 million kWh. The peak demand in FY 2002 was estimated at 40,000 kW (winter) to 56,000 kW (summer).

Robins AFB has a lease agreement with GPC for secondary metering, which includes installation, maintenance, reading, and reporting. There are no meters included with the electric distribution system to be privatized. Robins AFB reserves the right to continue to install and maintain meters on as needed basis.

Electric distribution systems are regulated by the Georgia Public Service Commission (PSC) under authority granted by Georgia Law. The PSC has regulatory authority over rates, service areas, quality of service, and safety issues. IAW paragraph C.3.1, the Contractor is required to obtain, maintain current any and all licenses, permits or certifications necessary to own, maintain, and operate its utility system. Contractors are hereby on notice there may be limiting factors in obtaining permits to perform the work described herein and are strongly advised to ensure that necessary permits can be obtained in a reasonable time in the event a contract award is awarded. The Government shall not be liable for reimbursement of bid and proposal costs or additional contract costs in the event a permitting authority refuses for any reason to issue the necessary permits.

J1.5 Secondary Metering

The Installation may require secondary meters for internal billings of their reimbursable customers, utility usage management, and conservation monitoring. The Contractor shall assume full ownership and responsibility for existing and future government owned secondary meters IAW Paragraph C.3.

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
Electrical Distribution System Robins AFB

FAC ID NO	CUSTOMER	COMMENT
N/A	N/A	There are no meters included with the system to be privatized.

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
Electrical Distribution System Robins AFB

Meter Location	Meter Description
N/A	There are no required new secondary meters for the system to be privatized

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:

*Name: WR-ALC/PKOS
Address: 235 Byron Street, Robins AFB, GA, 31098-1611
Phone number: (478) 926-3666*

*Name: 78CES/CEAE
Address: 775 Macon Street, Robins AFB, GA 31098-2077
Phone number: (478) 926-5820 ext 172*

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:

*Name: WR-ALC/PKOS
Address: 235 Byron Street, Robins AFB, GA, 31098-1611
Phone number: (478) 926-3666*

*Name: 78CES/CEAE
Address: 775 Macon Street, Robins AFB, GA 31098-2077
Phone number: (478) 926-5820 ext 172*

3. **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:

*Name: WR-ALC/PKOS
Address: 235 Byron Street, Robins AFB, GA, 31098-1611
Phone number: (478) 926-3666*

*Name: 78CES/CEAE
Address: 775 Macon Street, Robins AFB, GA 31098-2077
Phone number: (478) 926-5820 ext 172*

4. **Recycled Material Report.** Contractor shall submit a recycling report in a format proposed by the Contractor and accepted by the Contracting Officer. Recycled material reports shall be submitted by the 25th of each month for the previous month. Recycled material reports shall be submitted to:

*Name: WR-ALC/PKOS
Address: 235 Byron Street, Robins AFB, GA, 31098-1611
Phone number: (478) 926-3666*

*Name: 78CES/CEAE
Address: 775 Macon Street, Robins AFB, GA 31098-2077
Phone number: (478) 926-5820 ext 172*

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.

- Robins AFB has a contract with GPC to receive a capacity credit for curtailing electric demand using on-base generators.

J1.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the [Robins AFB](#) boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the [Robins AFB 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
Electrical Distribution System Robins AFB

Location	Description
N/A	There are no service connections or disconnections required for the system to be privatized

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 Robins AFB 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
Electrical Distribution System Robins AFB

Project Location	Project Description
NONE	

