

Attachment J01

Fort Jackson Electric Distribution System

Table of Contents

J01.1 Fort Jackson Area Overview.....	J01-1
J01.2 Electric Distribution System Description	J01-2
J01.3 Current Service Arrangement	J01-6
J01.4 Secondary Metering	J01-6
J01.5 Monthly Submittals	J01-9
J01.6 Energy Savings Projects.....	J01-10
J01.7 Service Area.....	J01-10
J01.8 Off-Installation Sites	J01-10
J01.9 Specific Transition Requirements.....	J01-10
J01.10 Electric Distribution System Points of Demarcation	J01-11
J01.11 Plants and Substations	J01-13

List of Tables

1	Fixed Inventory Electric Distribution System – Fort Jackson.....	J01-4
2	Spare Parts Electric Distribution System – Fort Jackson.....	J01-5
3	Specialized Equipment and Vehicles Electric Distribution System – Fort Jackson.....	J01-6
4	Manuals, Drawings, and Records Electric Distribution System - Fort Jackson.....	J01-6
5	Existing Secondary Meters Electric Distribution System – Fort Jackson	J01-7
6	New Secondary Meters Electric Distribution System – Fort Jackson.....	J01-9
7	Service Connections and Disconnections Electrical Distribution System – Fort Jackson	J01-10
8	System Improvement Projects Electrical Distribution System – Fort Jackson	J01-11
9	Points of Demarcation Electrical Distribution System – Fort Jackson	J01-11
10	Unique Points of Demarcation Electrical Distribution System – Fort Jackson	J01-13
11	Plants and Substations Electrical Distribution System – Fort Jackson	J01-13

J01 Fort Jackson Electric Distribution System

J01.1 Fort Jackson Area Overview

The main mission of Fort Jackson is to support a military tradition of excellence established on June 2, 1917, a new Army training Center was established to answer America's call for trained fighting men in the early, ominous days of World War I. This installation would become the largest and most active of its kind in the world. First known as the Sixth National Cantonment, and later as Camp Jackson, Fort Jackson has always served as the Army's pioneer in the training environment. Named the Army's Community of Excellence in 1988, Fort Jackson has continued to earn awards for excellence year after year. The initial site of the cantonment area consisted of almost 1,200 acres. The citizens of Columbia donated the land to the federal government, thereby initiating the long tradition of respect, cooperation and friendship between the city and the installation. In fact, Fort Jackson was incorporated into the city in October 1968.

Named in honor of Major General Andrew Jackson, a native son of the Palmetto State and the seventh president of the United States, Camp Jackson was designated as one of 16 national cantonments constructed to support the war effort. Years of Growth and the pressure of World War I brought swift changes. Within 11 days of the signing of a contract to construct the camp, the 110-man camp guard arrived. By the end of the first month, the labor force had grown to more than 1,200 and the first two barracks were completed. Two months later, the force had grown to almost 10,000 men. Virtually overnight, Camp Jackson had grown from a sandy-soil, pine and scrub oak forest to a thriving Army training center, complete with a trolley line and hundreds of buildings. Three months after construction began; some 8,000 draftees arrived for training. The first military unit to be organized here was the 81st "Wildcat" Division, under the camp's first official commander, Major General Charles H. Barth. Members of the original guard, who had been the first to occupy the camp, were moved to Camp Sevier in Greenville, S.C., and incorporated into the 30th "Old Hickory" Division, named in honor of Jackson. More than 45,000 troops from these famed divisions went to France as part of the America Expeditionary Forces. The World War Years In less than eight months, construction of the vast camp was complete. But almost as suddenly as it began, the clamor subsided. With the signing of the Armistice in 1918, the famed 30th Division was inactivated. The 5th Infantry Division trained here until it was inactivated in 1921. Control of the camp reverted to the Cantonment Lands Commission, and from 1925 to 1939, the sleepy silence was broken only by the occasional reports of weapons fired by state National Guardsmen. In 1939, the demands of war brought the area again under federal control, and Fort Jackson was organized as infantry training center. Four firing ranges were constructed, and more than 100 miles of roads were hard surfaced and named for legendary Revolutionary War figures and heroes of the Civil War. During World War II, the "Old Hickory" Division was one of the first units to reappear on the scene, just as it had in 1917. More than 500,000 men received some phase of their training here. Other famed units to train at Fort Jackson during this period were the 4th, 6th, 8th, 26th, 77th, 87th, 100th and 106th. The 31st "Dixie" Division trained here during the Korean Conflict. 75 Years of Excellence Fort Jackson had grown over the years, but most of the buildings were temporary. Finally in 1964, construction began on permanent steel and concrete buildings to replace wooden barracks that had housed the Fort's troops since the early 1940's.

In recognition of the Fort's 50th anniversary in 1967, the citizens of Columbia gave Fort Jackson the statue of Andrew Jackson that stands at Gate #1. With the establishment of the modern volunteer

Army in 1970 and the need to promote the attractiveness of service life, construction peaked in an effort to modernize facilities and improve services.

In June 1973, Fort Jackson was designated as an U.S. Army Training Center, where young men and women are taught to think, look and act as soldiers - always. Through the years, changes have been made to enhance training. Victory Tower, an apparatus designed to complement basic combat training, is used to reinforce the skills and confidence of the individual soldier. Field training exercises (FTX) were incorporated into advanced individual training (AIT) so soldiers would have an opportunity to practice MOS and common skills in a field environment. By 1988, initial entry training (IET) strategy was implemented. The standard unit of training was the platoon. Training focused on hands-on skill development rather than platoon instruction. Fort Jackson continues to win awards as we move toward our vision of the future. The goal is to make Fort Jackson the living, working and training environment it can be. "Victory Starts Here", as it has since 1917.

Major Activities/Tenants include:

- ?? Basic Combat Training (BCT)
- ?? Basic Training Tour
- ?? 1st Basic Combat Training Brigade
- ?? 1st Battalion, 28th Infantry Regiment
- ?? 2nd Battalion, 28th Infantry Regiment
- ?? 2nd Battalion, 13th Infantry Regiment
- ?? 3rd Battalion, 13th Infantry Regiment
- ?? 2nd Battalion, 60th Infantry Regiment
- ?? 4th Training Brigade
- ?? 1st Battalion, 61st Infantry Regiment
- ?? 2nd Battalion, 39th Infantry Regiment
- ?? 1st Battalion, 34th Infantry Regiment
- ?? Victory Brigade and Support of Basic Training
- ?? Advanced Individual Training (AIT)
- ?? Chaplain Center & School
- ?? Drill Sergeant School
- ?? Pre-Command Course
- ?? Soldier Support Institute
- ?? Adjutant General School
- ?? Finance School
- ?? NCO Academy
- ?? Recruiting and Retention School
- ?? Hospital
- ?? Other Military and Civilian Organizations

J01.2 Electric Distribution System Description

J01.2.1 Electric Distribution System Fixed Equipment Inventory

The Fort Jackson electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Base, and/or Government ownership currently, starts to the point of demarcation defined by the real estate instruments. Generally, the point of demarcation will be the building footprint. The system may

include, but is not limited to, substations, transformers, underground and overhead circuits, utility poles, switches, vaults, and lighting fixtures. The following description and inventory is included to provide the Offeror with a general understanding of the size and configuration of the distribution system. The inventory is assumed to be approximately 90 percent complete.

The Offeror shall base their proposal on site inspections, information in the bidder's Library, other pertinent information, and to a lesser degree the following description. Under no circumstances shall the successful Contractor be entitled to any rate adjustments based on the accuracy of the following description and inventory.

J01.2.1.1 Description

Construction of the existing electrical power system began in the early to mid 1950's. Additions, upgrades and demolition of portion of the electrical network were accomplished, as the needs required. The electrical distribution system exhibits the design and construction practices of 1960-1980 eras. The system is basically a four wire Wye connected, 8300 volts to phase and 4800 volts phase to ground, loop distribution network with step down transformers stations installed at scattered load centers. The original mode of overhead power line construction gave way to underground power cable feeder installations in congested areas. The present electrical network is a mixture of both overhead and underground facilities.

The South Carolina Electric & Gas Company (SCE&G) is the sole supplier of electric power to Fort Jackson. SCE&G has two 115 kV transmission lines extending onto the Installation. The two 115 kV lines form a looped feeder to the Main Substation. Automated disconnected switches permit SCE&G to feed the Main Substation from either direction in the event a feeder interruption. The SCE&G portion of the Main Substation of the substation from the 2 1/2" Extra Heavy Copper Bus. The Army-owned equipment includes a 5600 KVA Regulator, sixteen Oil Circuit Breakers (OCBs), sixteen gang operated circuit feeder transfer switches; 5KVA-station power transformer, backup battery power for OCB operation and bus disconnect switches operated transfer sw. The substation supplies power to fifteen circuits. Each circuit gang operated feeder transfer switch can select either a dedicated OCB or a TIE BUS. The TIE BUS connects to the spare OCB via a gang operated switch.

The substation was constructed circa 1973. Most of the underground cable lines on the installations were constructed at about the same time. Fort Jackson DLE staff personnel perform the entire O&M requirements for the Army. The electrical distribution location of the various range facilities are clearly required but existing information and drawings to each site are not well documented. The radial feeders into the ranges provide service connections for periodic field maneuvers. The street lighting system and fixtures are a mixture of high-pressure sodium (HPS, and mercury vapor. HPS lamp fixtures are being installed as the lesser efficient lamp fixtures fail.

A testing program identified all PCB contaminated equipment followed by a clean-up and replacement program. DLE reports no PCB-contaminated components remain.

The existing underground power circuits and duct banks were installed in the 1980's. Spare duct was installed in some duct banks during construction. Pad mounted sectionalizing switches are installed to provide operational and maintenance capabilities. Underground street lighting circuits were installed in family housing as directed buried cables; with few exceptions all other underground street lighting is in conduit.

Two Gang Operated Air Brakes (GOAB) switches are installed on the overhead primary power feeders for system operating and maintaining purposes. The sectionalizing capability and capability to back-feed with these switches has greatly increased system reliability.

The basic overhead power distribution system was constructed during the 1960's. Poles line structures are a combination of wood cross arm units with either suspension insulators or pin type insulators, porcelain standoff insulators, and polymer type insulators. The distribution system is WYE connected 8320 volts phase to phase and 4800 phase to ground. The overhead conductor is predominantly ASCR with some hard drawn copper.

The underground power distribution system was constructed during the 1970's and 1980's. Most of the underground primary cables are installed in concrete encased ducts banks. Manholes are utilized to provide working areas for cable pulls and splice points. Conventional type power distribution pad mounted transformers are installed in the main cantonment areas; a mixture of pole and compact type pad mounted units are installed in the residential areas.

J01.2.1.2 Inventory

Table 1 provides a general listing of the major electrical system fixed assets for the Fort Jackson electrical distribution system included in the purchase. The system will be sold in an "as is, where is" condition without any warrant, representation, or obligation on the part of the Government to make any alterations, repairs, or improvements. All ancillary equipment attached to and necessary for operating the system, though not specifically mentioned here in, is considered part of the purchased utility.

Table 1
Fixed Inventory
Electric Distribution System – Fort Jackson

Item	Quantity	Unit	Approximate Year of Construction
Substation			
Structure/Buswork	1	Bay	1965
OCB Switchgear	161	Ea	1965
Voltage Regulator	1	Ea	1973
SCE&E owned Section of Substation			
Power Transformer (24MVA)	2	Ea	1954&1978
Overhead Distribution Lines			
Large	53,434	Linear Ft	1960-1985
Small	811,008	Linear Ft	1960-1985
Double Phase	147,312	Linear Ft	1960-1985
Single Phase	127,776	Linear Ft	1960-1985
Secondary	200,112	Linear Ft	1960-1985
Group Operated Air Break Switches	28	Ea	1960-1985
Underground Distribution Lines			
Large	53,434	Linear Ft.	1975-1985
Small	106,920	Linear Ft.	1975-1985
Secondary	191,347	Linear Ft.	1975-1985
Pad Mounted Switches	2	Linear Ft.	1975-1985

Item	Quantity	Unit	Approximate Year of Construction
Pole Mounted Transformers			
15 kVA and smaller	210	Ea	1972-1987
25 kVA	200	Ea	1972-1987
37.5 kVA	172	Ea	1972-1987
50 kVA	138	Ea	1972-1987
75 kVA	64	Ea	1972-1985
100 kVA	41	Ea	1972-1987
167 kVA	3	Ea	1972-1987
Pad Mounted Transformers 1-Ph			
15 kVA or smaller	0	Ea	1972-1987
25 kVA	1	Ea	1972-1987
37.5 kVA	22	Ea	1972-1987
50 kVA	7	Ea	1972-1987
75 kVA	21	Ea	1972-1985
100 kVA	27	Ea	1972-1987
167 kVA	3	Ea	1972-1987
Pad Mounted Transformers 3-Ph			
112.5 kVA	21	Ea	1972-1987
150 kVA	11	Ea	1972-1987
225 kVA	25	Ea	1972-1987
300 kVA	21	Ea	1972-1985
750 kVA	10	Ea	1972-1987
Street Lights			
Fixtures	3,192	Ea	1967-1987
Poles	1,172	Ea	1967-1985
Lighting circuits (O/H & U/G)	177,144	Linear Ft	1967-1985
Services			
3-Ph	464	Ea	1967-1985
1-Ph	1,071	Ea	1967-1985

J01.2.2 Electrical Distribution System Non-Fixed Equipment and Specialized Tools Inventory

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 and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment and tools. The successful Contractor shall provide any and all equipment, vehicles, and tools, whether included in the purchase or not, to maintain a fully operating system under the terms of this contract.

Table 2
Spare Parts
Electric Distribution System – Fort Jackson

Qty	Item	Make/Model	Description	Remarks
	None Identified			

Table 3
Specialized Equipment and Vehicles
Electric Distribution System – Fort Jackson

Description	Quantity	Location	Maker
None Identified			

J01.2.3 Electric System Manuals, Drawings, and Records Inventory

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

Table 4
Manuals, Drawings, and Records
Electric Distribution System - Fort Jackson

Qty	Item	Description	Remarks
None			

J01.3 Current Service Arrangement

Currently, Fort Jackson purchases electric power from the South Carolina Electric & Gas Company (SCE&G) is the sole supplier of electric power to Fort Jackson. SCE&G has two 115 kV transmission lines extending onto the installation. The two 115 kV lines form a looped feeder to the Main Substation. Automated disconnect switches permit SCE&G to feed the Main Substation from either direction in the event of a feeder interruption. The SCE&G portion of the Main Substation includes two 22.4 MVA transformers, 115 kV/8320 volts, a 900 KVAR capacitor bank, and various disconnect switches.

J01.4 Secondary Metering

The Base requires secondary meters for internal billing of their reimbursable customers, utility usage management, and energy conservation monitoring. The Contractor shall assume full ownership and responsibility for the listed existing and future secondary meters IAW Clause C.3.

J01.4.1 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 once a month for all secondary meters IAW H.5 and J01.5 below.

Table 5
Existing Secondary Meters
Electric Distribution System – Fort Jackson

Meter Location			Meter Description		
BLDG NO.	USER/FUNCTION	READING	METER LOCATION	METER S/N	REASON FOR METER
1155	RES ENGR	9369	SIDE ENTRANCE TO BLDG	43905902	REIMBURSMENT
1558	LAUNDRY	2338	REAR BLDG ON TRANSFORMER	85573630	REIMBURSMENT
1644	RNSUCFSU3	8943	POLE NEAR BLDG	85176071	REIMBURSMENT
1701	120TH	7435	INSIDE FENCE ON TRANSFORMER	70383973	REIMBURSMENT
1890	MEDICAL FACILITY				REIMBURSMENT
2159	PX ANNEX	8702	REAR BLDG INSIDE MECHANICAL RM	50700022	REIMBURSMENT
2159	PX ANNEX	4273	POLE SOUTH END BLDG	78775716	REIMBURSMENT
2369	PX ANNEX	28198	BLDG NEAR MECHANICAL RM	65935435	REIMBURSMENT
2369	PX ANNEX	91565	REAR BLDG NEAR FURNACE	10460272	REIMBURSMENT
2395	BOWLING 4TH BDE	6045	POLE REAR OF BLDG		REIMBURSMENT
2396	ATM WACHOVIA	97420	CORNER JACKSON & BEAUREGARD ST	95761016	REIMBURSMENT
2445	MEDDAC VET				REIMBURSMENT
2498	MEDDAC VET				REIMBURSMENT
2502	PX BRANCH	24944	RIGHT SIDE BLDG	40225380	REIMBURSMENT
2522	LION CLUB	58414	LEFT SIDE NEAR ENTRANCE	40228149	REIMBURSMENT
2522	LION CLUB	17235	RIGHT SIDE BLDG INSIDE FENCE	64824341	REIMBURSMENT
3305	MCGRUDER CLUB	2225	REAR OF BLDG ON TRANSFORMER	86170966	REIMBURSMENT
3630	O CLUB 70356585	1258	REAR NEAR LOADING DOCK	70356585	REIMBURSMENT
3655	GOLF CLUB	5204	POLE AT PUMP HOUSE	91416 300	REIMBURSMENT
3656	GOLF CLUB	1923	ON TRANSFORMER LEFT FRONT	84832733	REIMBURSMENT
3659	GOLF CLUB	6934	POLE REAR OF GOLF SHED	46833680	REIMBURSMENT
3664	GOLF CLUB	79451	RIGHT SIDE OF BLDG	22928697	REIMBURSMENT
3664	GOLF CLUB	1619	RIGHT SIDE OF BLDG	76496040	REIMBURSMENT
4120	PX ANNEX	4410	REAR OF BLDG FENCED AREA	89644026	REIMBURSMENT
4323	MEDDAC DENTAL CLINIC				REIMBURSMENT
4395	POST EXCHANGE	7073	LEFT SIDE OF BLDG ENTRANCE	66454523	REIMBURSMENT
4400	POST OFFICE BLDG	74763	POLE FRONT ENTRANCE		REIMBURSMENT
4446	OFF WIVES CLUB	99167	REAR OF BLDG		REIMBURSMENT
4447	NCO WIVES BLDG	4866	REAR BLDG GREGG STREET		REIMBURSMENT
4464	BOWLING	7194	LEFT BLDG AT FURNACE ROOM		REIMBURSMENT
4500	MONCRIEF ARMY HOSPITAL		PRIMARY FEED		REIMBURSMENT
4500	MONCRIEF ARMY HOSPITAL		BACKUP FEED		REIMBURSMENT
4520	PX ANNEX	509	ON POLE 10 FT FROM END BLDG	55068647	REIMBURSMENT
4522	PX ANNEX	92544	INSIDE STORAGE ROOM	74387487	REIMBURSMENT
4575	TROUP MEDICAL CLINIC				REIMBURSMENT
4590	DENTAL CLINIC				REIMBURSMENT
4709	WACHOVIA	13598	POLE 20 FT FROM BANK	55111577	REIMBURSMENT
4710	CREDIT UNION	2117	FENCED AREA REAR BLDG	62083019	REIMBURSMENT
4712	PX (TO BE REPLACED)	1108	POLE IN PARKING LOT	13466041	REIMBURSMENT

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4712	PX (TO BE REPLACED)	8419	FENCED AREA AT COOLING TOWER	29162288	REIMBURSMENT
4716	COMMISSARY	9735	INSIDE BLDG 2ND FLOOR MAINT ROOM	30992104	REIMBURSMENT
5330	DENTAL CLINIC				REIMBURSMENT
5475	POST EXCHANGE	1083	INSIDE EQUIPMENT ROOM	50967717	REIMBURSMENT
5475	PX ANNEX	156	TRANSFORMER SIDE BLDG	64390011	REIMBURSMENT
5615	SCHOOL		REAR BLDG ON TRANSFORMER	11027675	REIMBURSMENT
5615	SCHOOL		GONE	46689229	REIMBURSMENT
5650	SOUTHERN BELL	31067	CORNER LEE AND IMBODEN ON BLDG 5650	77787417	REIMBURSMENT
5650	PX	857	REAR BLDG IN FENCED AREA	66084480	REIMBURSMENT
5670	PX ANNEX BURGER KING	29159	REAR OF BLDG	78964595	REIMBURSMENT
5700	NCO CLUB	4300	REAR BLDG ON TRANSFORMER	55459791	REIMBURSMENT
5702	NCO POOL	4516	POLE REAR OF POOL OFF IMBODEN ST	68034078	REIMBURSMENT
5715	SCHOOL	15476	ON TRANSFORMER LOADING DOCK	55205929	REIMBURSMENT
5900	SCHOOL	100	INSIDE BLDG UTILITY ROOM	31003844	REIMBURSMENT
5975	YOUTH CENTER	521	REAR OF BLDG IN FENCED AREA	15074604	REIMBURSMENT
6000	PALMETTO LODGE	2698	LEFT SIDE OFFICE	76405499	REIMBURSMENT
6510	COMMUNITY ACTIVITY CENTER	4305538	REAR OF BLDG	80092153	REIMBURSMENT
9810	USAR 120TH	2972	REAR BLDG ON TRANSFORMER	60088402	REIMBURSMENT
10440	PX ANNEX	9044	INSIDE FENCED AREA LOADING DOCK	78924610	REIMBURSMENT
12500	PX PHOTO IN VIDEORAMA	4378	REAR BLDG INSIDE FENCE	86170962	REIMBURSMENT
13000	US ARMY RESERVE	6807	REAR BLDG AT LOADING DOCK	79987474	REIMBURSMENT
13100	US ARMY RESERVE	756	POLE LEFT SIDE ROAD	684662276	REIMBURSMENT
13200	US ARMY RESERVE	5474	INSIDE FENCE RIGHT OF BLDG ON XFORMER	83086133	REIMBURSMENT
AREA	EM HOUSING	23633	POLE LEFT LEE RD, 200 FT NCO CLUB ENTRANCE	70265945	REIMBURSMENT
AREA	EM HOUSING	5818	POLE PARKING LOT AT 5715		REIMBURSMENT
AREA	EM HOUSING	6271	POLE 50 FT ON IMBODEN CORNER LEE ST	50944720	REIMBURSMENT
AREA	OFFICERS QTRS	3887	POLE OFF LEE ROAD NEAR 4710	55016504	REIMBURSMENT
AREA	GENERAL QTRS	4896	ON POLE IN WOODS	62177782	REIMBURSMENT
AREA	PX TRL PARK	5638	CONTRACTOR PARKING LOT SEEMES RD	36890850	REIMBURSMENT
AREA	EM QTRS	4027	POLE BEHIND QTRS 5823	82799538	REIMBURSMENT
LOG CABIN	WESTON LAKE MWR	845	LEFT SIDE OF CABIN	44748921	REIMBURSMENT
M2625	WESTON LAKE MWR	63634	ON BLDG WESTON LAKE	85178892	REIMBURSMENT
M2626	WESTON LAKE MWR	58855	ON BLDG WESTON LAKE	85178931	REIMBURSMENT
M2630	WESTON LAKE MWR	69274	END TRAILER WESTON LAKE	77671040	REIMBURSMENT
M2634	WESTON LAKE MWR	85911	POLE LEFT SIDE OF BATH HOUSE	77927910	REIMBURSMENT
M2763	WESTON LAKE MWR	99137	ON POLE FRONT OF CABIN	85178893	REIMBURSMENT
M2764	WESTON LAKE MWR	15280	ON POLE WESTON LAKE	85178894	REIMBURSMENT
M2771	WESTON LAKE MWR	42331	END TRAILER WESTON LAKE	77787076	REIMBURSMENT
PVT	BIRONAS 69729731	12680	REAR OF TRL AT CONTRACTOR SITE	69729731	REIMBURSMENT
TEMP	SOVRAN (BKS CONTRACTOR)				REIMBURSMENT
TEMP	URS-GREINER				REIMBURSMENT
TEMP	CENT CON				REIMBURSMENT
TEMP	WALKER WHITE				REIMBURSMENT
TEMP	HR ALLEN				REIMBURSMENT
TEMP	TYLER CONSTRUCTION				REIMBURSMENT
	SOUTHERN BELL	8763	BLDG CORNER OF HARDEE & EARLY ST.	6864471	REIMBURSMENT
	ATM CREDIT UNION	2600	PARKING LOT ON SUMPSTER ST	77809727	REIMBURSMENT
	ATM CREDIT UNION	46300	REAR BLDG	77927809	REIMBURSMENT

SOUTHERN BELL	98838	CORNER OF MARION AND IMBODEN	77927810	REIMBURSEMENT
ATM WACHOVIA	50683	NEAR TRANSFORMER PX 5475	96590932	REIMBURSEMENT
ATM WACHOVIA	67998	INSIDE FENCE AT LOADING DOCK 10440	96590951	REIMBURSEMENT
ATM CREDIT UNION	47968	HAMPTON PARKWAY NEAR COOLING TOWER	74815041	REIMBURSEMENT
ATM CREDIT UNION	82394	REAR BLDG PARKING LOT COMMISSARY	57448008	REIMBURSEMENT
SPORTS COMPLEX	8881	REAR OF BLDG ON TRANSFORMER	92514648	REIMBURSEMENT
RADIO TOWER	46739	POLE WEIR TOWER LEFT SIDE DIRT PATH	80817767	REIMBURSEMENT
SC NAT GUARD(KASSERINE PASS)	45685	SIDE OF BLDG AT RANGE	36459894	REIMBURSEMENT

J01.4.2 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 Clause C.13, Operational Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Clauses C.3 and J01.5 below.

Table 6
New Secondary Meters
Electric Distribution System – Fort Jackson

Meter Location	Meter Description
None Identified	

J01.5 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following: 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 Contracting Officer's designee. (This information will be provided upon award)

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 include the following information for Scheduled and Unscheduled outages:

Scheduled: Requestor, date, time, duration, facilities affected, feedback provided during outage, outage notification form number, and digging clearance number.

Unscheduled: Include date, time and duration, facilities affected, response time after notification, completion times, feedback provided at time of outage, specific item failure, probability of future failure, long-term fix, and emergency digging clearance number.

Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the Contracting Officer's designee. (This information will be provided upon award)

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 an electronic 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 Contracting Officer's designee. (This information will be provided upon award)

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 Contracting Officer's designee. (This information will be provided upon award)

J01.6 Energy Savings Projects

IAW C.3, Utility Service Requirement. The following projects have been implemented by the Government for managing and monitoring I&I:

None

J01.7 Service Area

IAW Clause C.4, Service Area, the service area is defined as all areas within the Fort Jackson boundaries *except for the South Carolina National Guard McCrady Training Center on Leesburg Road near its eastern termination into highway 601. The Wet Site has its own separate electrical service and it is owned and maintained by the utility*

J01.8 Off-Installation Sites

There are no off-installation sites associated with this scope.

J01.9 Specific Transition Requirements

IAW Clause C.13, Operational Transition Plan. **Table 7** lists service connections and disconnections required upon transfer, and **Table 8** lists the improvement projects required upon transfer of the Fort Jackson electric distribution system.

Table 7
Service Connections and Disconnections
Electrical Distribution System – Fort Jackson

Location	Description
None Identified	

Table 8
System Improvement Projects
Electrical Distribution System – Fort Jackson

Location	Description
System	Upgrade voltage to 24.7/14.3 kV

J01.10 Electric Distribution System Points of Demarcation

The point of demarcation is defined as the point on the distribution system where ownership changes from the Grantee to the building owner. This point of demarcation will typically be at the point the utility enters a building structure or the load side of a transformer within a building structure. The table below identifies the type and general location of the point of demarcation with respect to the building for each scenario. During the operation and maintenance transition period, concurrence on specific demarcation points will be documented during the joint inventory of facilities

Table 9
Points of Demarcation
Electrical Distribution System – Fort Jackson

Point of Demarcation	Applicable Scenario	Sketch
Point of demarcation is the transformer secondary terminal spade.	Pad Mounted Transformer located outside of structure with underground service to the structure and no meter exists.	
Down current side of the meter	Residential service (less than 200 amps and 240V 1-Phase), and three phase self contained meter installations. Electric Meter exists within five feet of the exterior of the building on an underground secondary line.	
Point of demarcation is the transformer secondary terminal spade.	Three Phase CT metered service.	

Point of Demarcation	Applicable Scenario	Sketch
<p>Secondary terminal of the transformer inside of the structure</p>	<p>Transformer located inside of structure and an isolation device is in place with or without a meter</p> <p>Note: Utility Owner must be granted 24-hour access to transformer room.</p>	
<p>Secondary terminal of the transformer inside of the structure</p>	<p>Transformer located inside of structure with no isolation device in place.</p> <p>Note: Utility Owner must be granted 24-hour access to transformer room.</p>	
<p>Point of demarcation is the point where the overhead conductor is connected to the weatherhead.</p>	<p>Electric meter is connected to the exterior of the building on an overhead secondary line.</p>	
<p>Point of demarcation is the point where the overhead conductor is connected to the weatherhead.</p>	<p>Pole Mounted Transformer located outside of structure with secondary attached to outside of structure with no meter.</p>	
<p>Point of demarcation is the point where the overhead conductor is connected to the weatherhead.</p>	<p>Service may be overhead or underground. A disconnect switch or junction box is mounted to the exterior of the structure with no meter.</p>	

J01.10.1 Unique Points of Demarcation

The following table lists anomalous points of demarcation that do not fit any of the above scenarios.

Table 10
Unique Points of Demarcation
Electrical Distribution System – Fort Jackson

Building No.	Point of Demarcation Description
None	None

J01.11 Plants and Substations

The following table lists plants and substations that will be transferred as part of the utilities privatization effort.

Table 11
Plants and Substations
Electrical Distribution System – Fort Jackson

Description	Facility #	State Coordinates	Other Information
None			
