

# RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT Electric Distribution System

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## TABLE OF CONTENTS

<b>RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT ELECTRIC DISTRIBUTION SYSTEM .....</b>	<b>I</b>
<b>J7 RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT ELECTRIC DISTRIBUTION SYSTEM .....</b>	<b>1</b>
J7.1 RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT OVERVIEW ..	1
J7.2 ELECTRIC DISTRIBUTION SYSTEM DESCRIPTION.....	1
J7.2.1 Electric Distribution System Fixed Equipment Inventory .....	1
J7.2.1.1 Description.....	2
J7.2.1.2 Inventory .....	2
J7.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools .....	3
J7.2.3 Electric Distribution System Manuals, Drawings, and Records .....	3
J7.3 SPECIFIC SERVICE REQUIREMENTS.....	4
J7.4 CURRENT SERVICE ARRANGEMENT .....	4
J7.5 SECONDARY METERING.....	4
J7.5.1 Existing Secondary Meters.....	4
J7.5.2 Required New Secondary Meters.....	4
J7.6 MONTHLY SUBMITTALS.....	5
J7.7 ENERGY SAVING PROJECTS.....	5
J7.8 SERVICE AREA.....	5
J7.9 OFF-INSTALLATION SITES .....	6
J7.10 SPECIFIC TRANSITION REQUIREMENTS.....	6
J7.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES .....	6

## List of Tables

Fixed Inventory .....	2
Spare Parts .....	3
Specialized Vehicles and Tools .....	3
Manuals, Drawings, and Records.....	3
Existing Secondary Meters.....	4
New Secondary Meters.....	5
Service Connections and Disconnections .....	6
System Deficiencies.....	7

# **J7 RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT Electric Distribution System**

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## **J7.1 RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT Overview**

Rhode Island Air National Guard Base at Quonset State Airport is located 20 miles south of Providence, Rhode Island and approximately 2.5 miles north of Wickford, Rhode Island. It is the home of the 143rd Airlift Wing whose mission is to provide air logistics support. The base is 79 acres of leased land. By July 2001 the base will have an additional lease for approximately 15 acres used for the development of their master plan and will allow for construction of facilities to support new C-130J transport aircraft (proposed projects are listed in J7.11). There are a total of 12 facilities on base: 4 industrial, 6 administrative and 2 services with no family housing. Current base population is approximately 360 personnel during non-drill duty days and increases to approximately 599 personnel on a drill duty weekend that occurs once per month.

## **J7.2 Electric Distribution System Description**

### **J7.2.1 Electric Distribution System Fixed Equipment Inventory**

The RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, protective devices, utility poles, ductbanks, switches, 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:

1. Street lighting
2. Parking lot area lighting
3. Airfield lighting
4. Emergency backup generators

### J7.2.1.1 Description

The Rhode Island Air National Guard Base at Quonset State Airport Electrical Distribution System is an underground system and distributed at 15kv. System has approximately 5,923 LF of underground cable which was upgraded in 1989. There are 9 pad mounted transformers and 8 pre-cast concrete manholes. The system also contains 8 switches throughout the distribution system.

Rhode Island Air National Guard Base at Quonset State Airport has no power generation capabilities except for emergency backup generators that fall outside the scope of this utility privatization effort.

### J7.2.1.2 Inventory

**Table 1** provides a general listing of the major electric distribution system fixed assets for the RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT electric distribution system included in the sale.

**TABLE 1**

Fixed Inventory

*Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT*

Item	Size	Unit	Quantity	Approximate Year of Construction
Transformers	KVA			
Dry type, ventilated	30	EA	1	1989
Dry type, ventilated	15	EA	8	1980
Underground Circuits & Ductbanks	AWG			
3 phase, 3w, 15000V w/ concentric neutral	#2	956	LF	1989
3 phase, 3w, 600V, in 1.5" conduit	#6	30	LF	1989
600V neutral	350 mcm	4397	LF	1989
3 phase, 3w, 15000V in conduit	500 mcm	4397	LF	1989
3c, 600V, direct bury (single cable)	#6	540	LF	1989
Switches – Underground				
600 Switches	2 way	8	EA	1980
Manholes				
Precast, concrete	8'	11	EA	1989
Utility Pole	Height (ft)	No.		
Wood	40	1	EA	1989

Notes:

AWG = American Wire Gauge

ea = each

LF = linear feet

Nom kVA = nominal kilovolt-amperes

ph – phase

V = volts

w = wire

## J7.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

**Table 2** lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

**TABLE 2**

Spare Parts

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Qty	Item	Make/Model	Description	Remarks
None				

**TABLE 3**

Specialized Vehicles and Tools

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Description	Quantity	Location	Maker
None			

## J7.2.3 Electric Distribution System Manuals, Drawings, and Records

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

**TABLE 4**

Manuals, Drawings, and Records

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Qty	Item	Description	Remarks
1	Base Utility Maps	U1-5	Sept 1999
1	Install New Electric Cable	Sheets E1-E6	May 1999
1	Base Engineer Maintenance Facility	Sheets E1-E5	July 1994

## J7.3 Specific Service Requirements

The service requirements for the RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT electric distribution system are as defined in the Section C, *Description/Specifications/Work Statement*.

- Although the duct banks are being turned over to the successful offeror, those ducts not currently used for electrical lines will be reserved for the exclusive use of the government. Additional ducts may be made available to the successful offeror at the discretion of the Contracting Officer.

## J7.4 Current Service Arrangement

- Provider Name: Narragansett Electric
- Average Annual Usage: 2,038,824 kwh/year
- Annual Usage Fluctuations:
  - Low: 131,200 kwh/month
  - High: 274,002 kwh/month

## J7.5 Secondary Metering

### J7.5.1 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 J7.6 below.

**TABLE 5**

Existing Secondary Meters

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Meter Location	Meter Description
None	

### J7.5.2 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 J7.6 below.

**TABLE 6**

New Secondary Meters

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

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Meter Location	Meter Description
None	

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## **J7.6 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 25<sup>th</sup> of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor’s monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25<sup>th</sup> of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters. The Contractor’s monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15<sup>th</sup> of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.
4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25<sup>th</sup> of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

## **J7.7 Energy Saving Projects**

IAW Paragraph C.3, Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes.

None

## **J7.8 Service Area**

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT boundaries.

## J7.9 Off-Installation Sites

No off-installation sites are included in the sale of the RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT electric distribution system.

## J7.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

**TABLE 7**  
Service Connections and Disconnections  
Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Location	Description
None	

## J7.11 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 RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT 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

Electric Distribution System RHODE ISLAND AIR NATIONAL GUARD BASE AT QUONSET STATE AIRPORT

Project Location	Project Description
	Although the following projects are not considered system deficiencies, they are included in this table to advise prospective offerors of future construction plans that may affect utility demand.
	• SECURITY FORCE TRAINING FACILITY, 7,500 SF, PROJECT #999127
	• ADD TO SQUAD OPS (BLDG 7), 6,300 SF, PROJECT #959509
	• REPAIR SQUAD OPS (BLDG 7), 15,740 SF, PROJECT #992809
	• REPLACE COMPOSITE MAINTENANCE FACILITY, 48,550 SF PROJECT #000661
	• CONSTRUCT MUNITIONS STORAGE COMPLEX, 1,650 SF, PROJECT #992634
	• CONSTRUCT BASE TRAFFIC ENTRANCE, 200 SF, PROJECT #982595
	• REPLACE MAINT HANGAR & SHOPS, SIZE TBD, PROJECT #959507
	• CONSTRUCT LIFE SUPPORT/SURVIVAL EQUIP, SIZE TBD, PROJECT #999143