

ATTACHMENT J2

Grand Forks AFB Natural Gas Distribution System

Table of Contents

GRAND FORKS AFB NATURAL GAS DISTRIBUTION SYSTEM	I
J2 GRAND FORKS AFB NATURAL GAS DISTRIBUTION SYSTEM	1
J2.1 GRAND FORKS AFB OVERVIEW.....	1
J2.2 NATURAL GAS DISTRIBUTION SYSTEM DESCRIPTION	2
<i>J2.2.1 Natural Gas Distribution System Fixed Equipment Inventory.....</i>	<i>2</i>
J2.2.1.1 Description.....	2
J2.2.1.2 Inventory	3
<i>J2.2.2 Natural Gas Distribution System Non-Fixed Equipment and Specialized Tools</i>	<i>6</i>
<i>J2.2.3 Natural Gas Distribution System Manuals, Drawings, and Records.....</i>	<i>7</i>
J2.3 SPECIFIC SERVICE REQUIREMENTS.....	7
J2.4 CURRENT SERVICE ARRANGEMENT	8
J2.5 SECONDARY METERING	8
<i>J2.5.1 Existing Secondary Meters.....</i>	<i>9</i>
<i>J2.5.2 Required New Secondary Meters</i>	<i>13</i>
J2.6 MONTHLY SUBMITTALS	13
J2.7 ENERGY SAVING PROJECTS	14
J2.8 SERVICE AREA	14
J2.9 OFF-INSTALLATION SITES	14
J2.10 SPECIFIC TRANSITION REQUIREMENTS.....	14
J2.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES	14

List of Tables

Fixed Inventory	3
Spare Parts	6
Specialized Vehicles and Tools.....	7
Manuals, Drawings, and Records.....	7
Existing Secondary Meters.....	9
New Secondary Meters	13
Service Connections and Disconnections.....	14
System Deficiencies	15

J2 Grand Forks AFB Natural Gas Distribution System

J2.1 Grand Forks AFB Overview

Grand Forks Air Force Base (GFAFB), located 15 miles west of Grand Forks, Grand Forks County, North Dakota, is an active military installation. The base is bordered on the south by U.S. Highway 2 and on the east by County Highway B-3. The host command is the 319th Air Refueling Wing (ARW). The mission of the 319th ARW is to safely and effectively support, maintain, and fly KC-135R Stratotankers to provide air refueling and airlift support for Air Mobility Command (AMC), Air Force, and Department of Defense operations. Other tenants include the following:

- Detachment 228, Air Force Audit Agency
- Detachment 409, 372nd Training Squadron
- Detachment 227, Field Investigative Detachment
- Detachment 320, Air Force Office of the Special Investigation (AFOSI)
- Defense Investigation Service Agency
- U.S. Army Corps of Engineers

Grand Forks County is primarily an agricultural region and, as part of the Red River Valley, is one of the world's most fertile. Cash crops include sugar beets, soybeans, corn, barley, and oats. The valley ranks first in the nation in the production of potatoes, spring wheat, sunflowers, and durum wheat.

GFAFB occupies 5,151 acres and contains approximately 698 buildings. The 2001 base population was 6,270. GFAFB currently employs more than 3,200 people; of these, 303 are civilian government employees. The base's annual payroll is approximately \$85 million. Some 2,700 retirees live within a 50-mile radius of the base and make use of GFAFB facilities and services. The total economic impact of the base to the region in 2001 was \$261 million.

The 2000 median household income for Grand Forks County is \$35,959. The City of Grand Forks had a 2000 census population of 49,321, down 0.5 percent from the 1990 figures. The decrease in population was partly caused by a major flood that occurred in the City of Grand Forks in 1997. The nearby City of Emerado had a 1990 population of 483.

J2.2 Natural Gas Distribution System Description

J2.2.1 Natural Gas Distribution System Fixed Equipment Inventory

The GFAFB natural gas 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, pipelines, valves, regulators, and meters. The government 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 natural gas distribution system privatization is the synthetic natural gas (SNG) plant owned by Honeywell. It is located south of Building 446 on the south side of the base. Also excluded is the 6" steel line that belongs to XCEL Energy leading from the main regulating and metering station (Building 163) to the old heat plant (Building 434).

See Exhibit B, Section J41 of the Right of Way document for information regarding specific points of demarcation for the natural gas distribution system at GFAFB.

J2.2.1.1 Description

Natural gas is supplied to GFAFB by XCEL Energy and delivered to three points. The first delivery point on base is delivered through a 12" high-pressure steel gas line at 250 pounds per square inch gauge (psig) into the master regulator and meter house just south of the visitor center on base. From there, gas is delivered via an Air Force-owned 8" line leading to the military family housing (MFH) area at 20 psig while the remainder of the base is served by an XCEL Energy-owned 6" steel line leading to the second and third entry points at 60 psig.

At the second and third gas entry points, XCEL Energy delivers gas to two co-located 6" metering and regulating stations just east of Building 434 (old heat plant). XCEL Energy owns the Roots meters at this station while the Air Force owns all components downstream of the mid-way point of the 6" spool pieces that are downstream of these XCEL Energy-owned meters. According to the Base Civil Engineering Department, real estate instruments are in place to allow XCEL Energy access to their lines on base.

There is no physical on-base plant for the production of natural gas. However, there is a SNG plant installed and operational in 2002 that is used in interruptible circumstances. Honeywell, the ESPC contractor, currently owns the SNG plant, and the Air Force owns the 8" PE line at a point located 5' outside of the east fenceline of the SNG plant complex. The SNG plant will not be privatized at this time. GFAFB will consider negotiating the privatization of the SNG plant when it becomes government property. The SNG plant turnover to government possession is currently scheduled for 2022. The SNG plant currently consists of 6 each 60,000-gallon propane storage tanks, a propane-fired emergency generator, two each high capacity truck transport unloading stations, an Aqua-gas Model 3500 W/MH waterbath LPG vaporizer, 4 each pumps, and a utili-pack including a turbine meter, air quality package, and gas calorimeter. The site is surrounded by an 8' high fence and encompasses a 150' x 240' area south of the F Street and Lox Avenue intersection.

The Air Force does not own its own odorizing equipment. Instead, injection of odorant into the natural gas is performed by XCEL Energy upstream of the GFAFB natural gas main entry point. The Air Force-owned distribution system consists of approximately 219,720 linear feet of underground piping. Of this total, approximately 118,200 linear feet (54%) exists within MFH.

The Air Force owns an energy management control system (EMCS), but this system will not be privatized. The Air Force retains the right to monitor any gas meter at GFAFB through this system although only four (4) gas meters are currently tied into it.

Natural gas is used primarily for space heating, hot water, and small gas furnaces. Numerous service regulators reduce the pressure of gas prior to entering the buildings. Piping estimates indicate that approximately 99 percent of the system piping is PE and the remaining 1 percent is wrapped carbon steel. The 8” carbon steel section was installed in 1986, and the PE piping has been installed since the mid-1980’s through today. Most of the PE pipe does have tracer wire or magnetic tape installed to assist in the location of the gas line underground. However, there are certain segments of piping with no tracer capability. Those segments of pipe are indicated on the GFAFB G-6 tab. Typical burial depths of the gas piping in all areas of GFAFB vary between 3 to 4 feet due to the extensive frost line although the minimum pipe depth can be 18” depending upon pipe diameter.

The quantity and type of cathodic protection for the 8” steel section of piping in the MFH area is currently unknown. From interviews with base civil engineering personnel, it is assumed that it has not been maintained for approximately 1 year. There is a project to install new cathodic protection for this segment of 8” steel pipe listed in Table 8 below.

The exact condition of the pipe cannot be determined without excavation. However, based on interviews with the base utility engineer, the system is in good condition. No safety code violations were observed during the site visit. All gas piping ranges in size from ½ inches to 8 inches. Each building that receives natural gas has at least one regulator and 125 buildings have natural gas meters. Some buildings have multiple meters installed on them, but not all buildings are read for reimbursement purposes. Those buildings that do not receive gas include igloos and detached garages in which heating is not required.

J2.2.1.2 Inventory

Table 1 provides a general listing of the major natural gas distribution system fixed assets for GFAFB included in the sale.

TABLE 1 Fixed Inventory <i>Natural Gas Distribution System Grand Forks AFB</i>					
Item	Size (in.)	Quantity	Unit	Approximate Year of Construction	
Polyethylene Pipe					
Housing	½”	50,575	LF	1986	
Housing	2	49,675	LF	1986	
Housing	3	1,550	LF	1986	
Housing	4	12,800	LF	1986	
Main Base	0.625	250	LF	1986	
Main Base	1	2,250	LF	1986	

TABLE 1
Fixed Inventory
Natural Gas Distribution System Grand Forks AFB

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Main Base	1	1,090	LF	2000
Main Base	1	12,225	LF	2001
Main Base	1.125	900	LF	1986
Main Base	1.25	300	LF	1986
Main Base	1.25	8,275	LF	2000
Main Base	1.25	850	LF	2001
Main Base	2	11,900	LF	1986
Main Base	2	14,815	LF	2000
Main Base	2	8,550	LF	2001
Main Base	3	500	LF	1986
Main Base	3	100	LF	2001
Main Base	4	9,900	LF	1986
Main Base	4	8,765	LF	2000
Main Base	4	9,850	LF	2001
Main Base	6	6,850	LF	2001
Main Base	8	4,150	LF	2001
Steel Pipe				
Housing	8	3,600	LF	1986
Steel Plug Valves				
Main Base	8	5	EA	2002
Gas Cocks				
Housing	½"	613	EA	1986
Housing	½"	8	EA	1999
Housing	½"	53	EA	2000
Housing	½"	2	EA	2001
Housing	½"	28	EA	2002
Main Base	1	39	EA	1986
Main Base	1	2	EA	1988
Main Base	1	1	EA	1992
Main Base	1	2	EA	1996
Main Base	1	1	EA	1997

TABLE 1
Fixed Inventory
Natural Gas Distribution System Grand Forks AFB

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Main Base	1	6	EA	1998
Main Base	1	3	EA	1999
Main Base	1	39	EA	2000
Main Base	1	58	EA	2001
Main Base	1	1	EA	2002
Main Base	1	4	EA	2003
PE Ball Valves				
Housing	1.25	1	EA	1986
Main Base	2	7	EA	1986
Housing	2	23	EA	1986
Main Base	2	14	EA	2001
Housing	3	1	EA	1986
Main Base	3	1	EA	2001
Main Base	4	7	EA	1986
Housing	4	5	EA	1986
Main Base	4	6	EA	2001
Main Base	6	3	EA	2001
Regulators & Meters				
Regulator, Housing	½"	613	EA	1986
Regulator, Housing	½"	8	EA	1999
Regulator, Housing	½"	53	EA	2000
Regulator, Housing	½"	2	EA	2001
Regulator, Housing	½"	28	EA	2002
Regulator	1"	39	EA	1986
Regulator	1"	2	EA	1988
Regulator	1"	1	EA	1992
Regulator	1"	2	EA	1996
Regulator	1"	1	EA	1997
Regulator	1"	5	EA	1998
Regulator	1"	3	EA	1999
Regulator	1"	39	EA	2000

TABLE 1
Fixed Inventory
Natural Gas Distribution System Grand Forks AFB

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Regulator	1"	58	EA	2001
Regulator	1"	1	EA	2002
Regulator	1"	4	EA	2003
Meter	1"	26	EA	1986
Meter	1"	1	EA	1988
Meter	1"	1	EA	1992
Meter	1"	2	EA	1996
Meter	1"	1	EA	1997
Meter	1"	4	EA	1998
Meter	1"	3	EA	1999
Meter	1"	38	EA	2000
Meter	1"	55	EA	2001
Meter	1"	1	EA	2002
Meter	1"	2	EA	2003

Notes:
PE = Polyethylene
LF = Linear Feet
EA = Each
IN = Inches

J2.2.2 Natural Gas 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
Natural Gas Distribution System Grand Forks AFB

Qty	Item	Make/Model	Description	Remarks
N/A				

TABLE 3

Specialized Vehicles and Tools
Natural Gas Distribution System Grand Forks AFB

Description	Quantity	Location	Maker
Butt-fusion Machine	1	Plumbing Shop (Bldg 540)	
Electro-fusion Machine	1	Plumbing Shop (Bldg 540)	

J2.2.3 Natural Gas 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
Natural Gas Distribution System Grand Forks AFB

Qty	Item	Description	Remarks
1	G-6 Tabs, Sheets 1 & 2	Natural Gas Distribution System Maps	

J2.3 Specific Service Requirements

The service requirements for the GFAFB natural gas distribution system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the GFAFB natural gas 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.

Owner shall follow GFAFB's Unscheduled Utility Outage Notification procedure for any unplanned outages.

All meter inlet screens will be cleaned every September.

A representative knowledgeable of the system and the Service Interruption/Contingency Plan shall be on the site of the emergency and begin isolating the leak within 1 hour of notification.

Owner shall submit the material safety data sheet (MSDS) for all hazardous substances to GFAFB Bioenvironmental and Environmental Departments. Prior approval by Bioenvironmental and Environmental is necessary for any hazardous substances to enter the base. Owner shall submit the locations and MSDS of all hazardous substances to the GFAFB Fire Department. Any changes shall be immediately updated.

Owner shall use directional boring techniques when pipe needs to cross under streets. Other techniques require the approval of the Contracting Officer.

After award, the Owner shall prepare the following plans in accordance to applicable federal and state laws: storm water protection plan; waste disposal plan; dust control plan; and erosion control plan. Contracting Officer's approval of the plans is required prior to start of any work. The Owner shall update plans to meet current laws and regulations at a minimum of five years. Updated plans require the approval of the Contracting Officer.

As outlined in Section C.5.2.7, the Owner shall apply for personnel security clearances and obtain applicable security badges to gain access into secured areas. The Air Force will only provide an escort if it is required to eliminate an emergency situation. The Air Force will not provide escorts for normal maintenance and repair work in secured areas. The Air Force will work with the Owner during the transition period to accommodate for possible delays in clearances.

In addition to the Owner complying with all applicable federal, state, interstate, and local laws and regulations as referenced in C.2.1, the Owner shall comply with all applicable codes such as *NFPA* and *UFC*.

In reference to C.5.1.4, Record Drawings, the base will require CAD drawing files and information to allow for Geographical Information System (GIS) updates to be supplied within 30 days of the completion of any alterations to the natural gas system. The red line for drawings must be within 1 day of work.

GFAFB retains the right to monitor four natural gas meters (Buildings 541, 542, 629, and 631) via EMCS for energy management. Replacement of any of these meters shall allow base personnel to remove the EMCS equipment and reinstall on the replacement. The replacement meter shall be either the same model as the old meter or approved by the Contracting Officer as compatible with the EMCS equipment.

Owner shall mark the actual location of its property within 72 hours of notice by Grantor for routine locates. The Grantee will mark the actual location of its property within 3 hours of notification in the case of an emergency, as designated by the Grantor. The valves necessary to isolate the marked lines will also be marked. Reusable markers shall be used in place of the standard flag. Valves will only be marked for locates; otherwise, they will remain unmarked throughout the year to improve base appearance.

Lawn areas rutted by equipment or otherwise damaged shall be leveled by the addition of topsoil or otherwise repaired by tilling and leveling. These areas shall be resodded and watered to match the existing vegetation or the vegetation that existed before damage. The sod shall require approval from the Contracting Officer.

Department of Transportation guidelines shall be followed regarding leak surveys. Test results shall be given to 319 CES/CEOE, 575 Tuskegee Airmen Blvd, Building 418, Grand Forks AFB, ND 58205-6435.

J2.4 Current Service Arrangement

- Provider Name: XCEL (transportation)
- Average Usage: 447,785 MCF/year (based on FY2003)
- Annual Usage Fluctuations: Low Month Consumption: 4,359 MCF; High Monthly Consumption: 82,373 MCF (based on FY2003)

J2.5 Secondary Metering

J2.5.1 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 J2.6 below.

TABLE 5
Existing Secondary Meters
Natural Gas Distribution System Grand Forks AFB

Meter Location	Meter Description
Building 105S (Burger King)	18922, Read Monthly
Building 109S (Hospital)	3553922, Read Monthly
Building 109N (Physical Therapy)	Unknown, Read Monthly
Building 139 (Tri-Care)	5855670, Read Monthly
Building 132 (Penn Circle)	4464952, Read Monthly
Building 118N (Officer's Club North)	3054987, Read Monthly
Building 118S (Officer's Club South)	4461128, Read Monthly
Building 119 (Housing Office)	2959721, Read Monthly
Building 120 (Kiddy Kampus)	326372, Read Monthly
Building 121 (Youth Center)	1671, Read Monthly
Building 168 (Child Development Center)	1120113, Read Monthly
Building 175 (Warming House)	Unknown, Read Monthly
Building 203 (Recreation Center)	1684740, Read Monthly
Building 205 (Commissary) (x2)	2311791, Read Monthly
Building 243 (Shoppette)	159275, Read Monthly
Building 309SE (Enlisted Club Southeast)	4587647, Read Monthly
Building 309SW (Enlisted Club Southwest)	4587641, Read Monthly
Building 310 (Auto Skills)	1684741, Read Monthly
Building 424	4648082, Read Monthly
Building 429	4648086, Read Monthly
Building 432	326370, Read Monthly
Building 437	326673, Read Monthly
Building 541	Unknown, Read Monthly
Building 542	Unknown, Read Monthly
Building 629	Unknown, Read Monthly

Meter Location	Meter Description
Building 631	Unknown, Read Monthly
Building 650 (Liquid Fuels)	Unknown, Read Monthly
Building 622N (FMS North)	373689, Read Monthly
Building 622S (FMS South)	116551, Read Monthly
Building 812 (Visitor's Center)	4436643, Read Monthly
Building 3183 (Ellsworth Ave.)	13287, Read Monthly
Building 3193 (Ellsworth Ave.)	13287, Read Monthly
Building 101	Unknown, Not Read
Building 102	Unknown, Not Read
Building 103	Unknown, Not Read
Building 105N	Unknown, Not Read
Building 108	Unknown, Read Monthly
Building 117	Unknown, Read Monthly
Building 124	Unknown, Read Monthly
Building 201	Unknown, Not Read
Building 202	Unknown, Not Read
Building 203	Unknown, Read Monthly
Building 204	Unknown, Read Monthly
Building 205	Unknown, Read Monthly
Building 207	Unknown, Not Read
Building 208	Unknown, Not Read
Building 210	Unknown, Read Monthly
Building 212	Unknown, Not Read
Building 213	Unknown, Not Read
Building 215	Unknown, Not Read
Building 217	Unknown, Not Read
Building 218	Unknown, Not Read
Building 219	Unknown, Not Read
Building 221	Unknown, Not Read
Building 222	Unknown, Not Read
Building 231	Unknown, Not Read
Building 232	Unknown, Not Read
Building 233	Unknown, Not Read
Building 242	Unknown, Not Read

Meter Location	Meter Description
Building 244	Unknown, Not Read
Building 252	Unknown, Not Read
Building 303	Unknown, Not Read
Building 304	Unknown, Not Read
Building 307	Unknown, Not Read
Building 308 (x2)	Unknown, Not Read
Building 313	Unknown, Not Read
Building 314	Unknown, Not Read
Building 315	Unknown, Read Monthly
Building 316	Unknown, Not Read
Building 319	Unknown, Not Read
Building 320	Unknown, Read Monthly
Building 408	Unknown, Not Read
Building 409	Unknown, Not Read
Building 410	Unknown, Not Read
Building 411	Unknown, Not Read
Building 412	Unknown, Not Read
Building 414	Unknown, Not Read
Building 415	Unknown, Not Read
Building 416	Unknown, Not Read
Building 418	Unknown, Not Read
Building 435	Unknown, Not Read
Building 440	Unknown, Not Read
Building 452	Unknown, Not Read
Building 459	Unknown, Not Read
Building 512	Unknown, Not Read
Building 513	Unknown, Not Read
Building 515	Unknown, Not Read
Building 516	Unknown, Not Read
Building 517	Unknown, Not Read
Building 518	Unknown, Not Read
Building 520	Unknown, Not Read
Building 521	Unknown, Not Read
Building 522	Unknown, Not Read

Meter Location	Meter Description
Building 523	Unknown, Not Read
Building 526	Unknown, Not Read
Building 528	Unknown, Not Read
Building 530	Unknown, Not Read
Building 531	Unknown, Not Read
Building 534	Unknown, Not Read
Building 540	Unknown, Not Read
Building 547	Unknown, Not Read
Building 556	Unknown, Read Monthly
Building 557	Unknown, Not Read
Building 580	Unknown, Not Read
Building 600	Unknown, Not Read
Building 601	Unknown, Not Read
Building 602	Unknown, Not Read
Building 603	Unknown, Not Read
Building 605N	Unknown, Not Read
Building 605 (mid)	Unknown, Not Read
Building 605S	Unknown, Not Read
Building 607	Unknown, Not Read
Building 609	Unknown, Not Read
Building 610	Unknown, Not Read
Building 613	Unknown, Not Read
Building 621	Unknown, Not Read
Building 634	Unknown, Not Read
Building 635	Unknown, Not Read
Building 649	Unknown, Not Read
Building 655	Unknown, Not Read
Building 657	Unknown, Not Read
Building 661	Unknown, Not Read
Building 670	Unknown, Not Read
Building 697	Unknown, Not Read
Building 700	Unknown, Not Read
Building 737	Unknown, Not Read
Building 761	Unknown, Not Read

Meter Location	Meter Description
Building 811	Unknown, Not Read
Building 835	Unknown, Not Read
Building 1238	Unknown, Read Monthly
Building 1422 (x2)	Unknown, Read Monthly
Pavilion	Unknown, Not Read

J2.5.2 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 J2.6 below.

TABLE 6
New Secondary Meters
Natural Gas Distribution System Grand Forks AFB

Meter Location	Meter Description
Main Metering and Regulating Station (Bldg 163)	Meter on 8" piping segment leading to MFH located west of the fenceline. To be read monthly.

J2.6 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: 319 CES/CEOE

Address: 575 Tuskegee Airmen Blvd, Building 418, Grand Forks AFB, ND 58205-6435

Phone number: (701) 747-5714

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: 319 CES/CEOE

Address: 575 Tuskegee Airmen Blvd, Building 418, Grand Forks AFB, ND 58205-6435

Phone number: (701) 747-5714

3. Meter Reading Report*. The monthly meter reading report shall show the current and previous month readings for all secondary meters. The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to:

Name: 319 CES/CEOE

Address: 575 Tuskegee Airmen Blvd, Building 418, Grand Forks AFB, ND 58205-6435

Phone number: (701) 747-5714

*Only meters for reimbursable customers are necessary for monthly meter readings. Meters used for managing consumption or conservation shall be read every September.

4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to:

Name: 319 CES/CEOE

Address: 575 Tuskegee Airmen Blvd, Building 418, Grand Forks AFB, ND 58205-6435

Phone number: (701) 747-5714

J2.7 Energy Saving Projects

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

Honeywell has installed numerous individually gas fired boilers throughout the base under ESPC Task Orders 2 and 3. In addition, Honeywell installed and GFAFB currently operates the SNG plant. See section J2.2.1.1 of this report for further information on the SNG plant.

J2.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the GFAFB boundaries.

J2.9 Off-Installation Sites

No off-installation sites are included in the sale of the GFAFB natural gas distribution system.

J2.10 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
Natural Gas Distribution System Grand Forks AFB

Location	Description
N/A	

J2.11 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 GFAFB natural gas distribution system. If the utility 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
Natural Gas Distribution System Grand Forks AFB

Project Location	Project Description
Repair Natural Gas Distribution System (R/W) – Base	<p>Install a loop between the 4" TO-2 and 6" TO-3 gas mains on Eielson between Tuskegee Airmen Blvd. And B-607. Install a valve on the cross-connect, and install additional valves upstream of each tee.</p> <p>Create a backfeed for MFH by installing a 4" pipe between the TO-3 system and the 20 psig pipe between V36 and V39. Tee into the 6" TO-3 pipe beside Eielson, north of the abovementioned loop between the TO-2 and TO-3 systems. Tee into the 20 psig system at the most convenient location. On the backfeed pipe, install a pressure regulator to drop the pressure from the industrial 60 psig to 20 psig for MFH. Install a meter next to the regulator and a check valve downstream of the regulator. Install one valve upstream of the meter/regulator and one valve downstream of the check valve. Install a protective barrier around the meter and regulator.</p> <p>Install a valve on the TO-2 system along Eielson Street between 7th Avenue and the road to B-621.</p> <p>Install a valve on the TO-2 system along Eielson Street east of B-536.</p> <p>Install a 6" valve on the TO-3 system along Steen Avenue east of the lateral to B-233.</p> <p>Install a valve on the TO-2 system between the laterals to B-634 and B-656.</p> <p>Install a valve on the TO-2 system between the laterals to B-661 and B-607.</p> <p>Install a 4" valve on the TO-3 main along 1st Avenue across from Contractor's Row.</p>
Repair Natural Gas Distribution System – MFH	<p>Install a valve in the 20 psig system on Nevada Drive between the laterals to B-1721 and B-1723.</p> <p>Install a valve in the 20 psig system on Beech Drive on the opposite side of Louisiana Street from V20.</p> <p>Install a valve in the 20 psig system on Redwood Drive near J Street, prior to the service to B-1161.</p> <p>Install a valve in the 20 psig system on I Street between the services to B-1808 and B-1901.</p> <p>Install a valve in the 20 psig system on Gumwood Avenue adjacent to Louisiana Street.</p> <p>Install a valve in the 20 psig system on Fir Avenue adjacent to Louisiana Street.</p> <p>Install a valve in the 20 psig system on Indiana Street prior to the lateral to B-1782.</p> <p>Install a valve in the 20 psig system on Poplar Avenue upstream to the lateral to B-1173.</p> <p>Extend the main on Poplar Avenue from B-1169 to connect with the 4" main on J Street. Install a valve with the extension.</p> <p>Extend the main from the west end of Maxwell Avenue to connect to the main on the south end of Hawaii Street. Install a valve with the extension.</p>
Locate Natural Gas Distribution (R/W) – Base	<p>Locate 10,700 linear feet of unmarked natural gas piping, and install underground marking tape or wire to facilitate future locates with electromagnetic devices. The locate wire must be installed above the pipe at a reasonable depth for underground locating. These lengths include the following: 8,600 linear feet of 4" PE pipe, 800 linear feet of 2" PE pipe, and 1,300 linear feet of 1" PE pipe.</p>
Locate Natural Gas Distribution (R/W) – MFH	<p>Locate 1,800 linear feet of unmarked 2" PE natural gas piping, and install underground marking tape or wire to facilitate future locates with</p>

	electromagnetic devices. The locate wire must be installed above the pipe at a reasonable depth for underground locating.
Natural Gas Cathodic Protection - MFH	Provide cathodic protection for 3,600 linear feet of 8" diameter steel natural gas distribution line located in MFH.