

## Attachment J6

# Florida Air National Guard (FANG), Jacksonville Waste Water System

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# **J6 Florida Air National Guard (FANG), Jacksonville Wastewater System**

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## **J6.1 Florida Air National Guard, Jacksonville Overview**

The Florida Air National Guard (FANG), Jacksonville facility is located at the Jacksonville International Airport in Jacksonville Florida. The base covers about 332 acres of land. The FANG houses the 125<sup>th</sup> Fighter Wing, which includes the 202<sup>nd</sup> Red Horse Civil Engineering Squadron located at Camp Blanding, near Starke, Florida. The 202<sup>nd</sup> Red Horse unit is not included in this study.

The 125th Fighter Wing, Florida Air National Guard, is located at Jacksonville International Airport (IAP), Florida, with a NORAD Alert Detachment at Homestead AFB, Florida. Since its inception, the 125th has developed strong competencies in the Strategic Air Defense arena.

The roots of the 125th Fighter Wing date back to the period following World War II when the unit was first organized as the 159th Fighter Squadron on 9 February 1947 with an initial strength of 18 personnel and was equipped with the P-51 Mustang. In 1948, the 159th became one of the first Air National Guard units to be equipped with jets when it converted to the F-80C Shooting Star.

The unit was called to active duty on 10 October 1950 as a result of the outbreak of the Korean Conflict. After a nine-month conversion from the F-80 to the F-84E Thunderjet, the unit deployed to Japan where it flew air defense missions over the Korean theater. The unit was released from active duty on 9 July 1952, returning home to be re-equipped with the F-51H Mustang.

During the remainder of the early 1950s, the 159th was equipped with a multitude of different aircraft, including the T-6, B-26, C-45, F51H, T-33, F-80, and F86A. By the end of 1954, the unit was equipped with an entire squadron of F-80s. On 1 July 1956, the primary unit designation was changed to the 125th Fighter Interceptor Group (FIG), and the unit converted to the F-86D Super Sabre with the primary mission of air defense.

In July 1960, the 125th converted from the F-86D to the all-weather, supersonic F-102A/B Delta Dagger, followed in July 1974 by a conversion to the F-106A/B Delta Dart.

On October 1, 1979 the 125<sup>th</sup> FIG was officially assigned to the Air Defense Division of the Tactical Air Command, and subsequently was honored as an Air Force Outstanding Unit on March 2, 1980. The 125<sup>th</sup> reinforced its role as Air Defender on October 1, 1983 when it expanded its around-the-clock alert mission by adding a detachment at Homestead Air Force Base.

In 1985 the FANG added a non-flying unit with the formation of the 202<sup>nd</sup> Red Horse Civil Engineering Squadron (RHS). The 202<sup>nd</sup> was formed to provide a rapidly deployable, highly trained force to accomplish heavy damage repairs to runways, facilities, and utilities of the Air Force worldwide. That unit is located at Camp Blanding, near Starke, Florida. The 202<sup>nd</sup> RHS is actively involved in Hurricane Relief, Construction Projects for United States Air Force and Army National Guard Units, training for other Air National Guard and Air Force units, and Community Service.

In April 1987, the 125th converted to the F-16A/B, a multi-role fighter that was subsequently modified as the ADF-16 specifically designed for the Air Defense role.

On December 15, 1992 the 159<sup>th</sup> Weather Readiness Training Center and Weather Flight were added to the Florida Air National Guard. Located at Camp Blanding, the school billets and trains Air National Guard members as well as active duty airmen in their career field of weather predictions.

The 125th Fighter Wing has a dual mission - one state and one federal. The state mission is to provide trained and equipped personnel to protect life and property and to preserve peace, order, and public safety. The federal mission is to provide fully trained and qualified personnel to CINCNOAD in time of war or national emergency for the defense of the North American Continent. On a daily basis, the 125th is responsible for the maintenance of a NORAD Air Defense Alert site at Homestead ARB. In this capacity, the unit provides armed F-15 aircraft capable of intercepting, identifying, and, if necessary, destroying unknown aircraft which penetrate sovereign U.S. airspace. In the past, this threat has included Soviet Bear bombers, Cuban fighters, and narcotics traffickers. The installation is comprised of 41 buildings, and approximately 325,000 gross square feet.

## **J6.2 Wastewater Collection System Description**

The FANG, Jacksonville wastewater collection system consists of all appurtenances physically connected to the system from the point in which the 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 the water wells, the water treatment plant, the storage tanks and the distribution lines including service laterals. 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 the 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.

### **J6.2.1 Wastewater Collection System Fixed Equipment Inventory**

The Jacksonville Florida Air National Guard (FANG) wastewater collection system receives all of the wastewater produced on base. The wastewater is taken by gravity sewer, pump stations and force mains, to a single pump station where it is discharged to an off-site wastewater treatment plant operated by JEA (formerly Jacksonville Electric Authority). JEA is affiliated with the City of Jacksonville and operates five regional wastewater treatment plants.

Most of the FANG's wastewater is domestic with the exception of the jet and motor vehicle wash. The wastewater is collected throughout the base through underground pipelines, ranging in size from

2-inch force mains to 8-inch main sewer lines. Most of the system was built in 1969. Pipe materials of construction included vitrified clay, PVC, and glass-lined ductile iron. Overall there are an estimated 8,000 linear feet of sewer pipe. The only portion of the system that is glass-lined ductile iron pipe is the force main discharge from the main lift station as it leaves the base. In 1998 this portion of line was pigged from the pump station all the way to the treatment plant. This line is still in excellent condition and has had no service problems. Parts of the older original system have had some repairs. None of the repairs were due to age or deterioration. In 1996 a new lateral was placed on an existing 8-inch line incorrectly. After a period of time a sinkhole was reported and the lateral was dug up and replaced. Other problems have occurred during new construction. Backhoes and other construction equipment have broken wastewater lines during new construction. Other than these types of isolated incidents, no problems have been reported in relation to the condition of the collection system. No significant storm water infiltration and inflow problems are indicated.

The FANG, Jacksonville has a total of three pump stations on base. The No.1 station is the main pump station to the JEA wastewater treatment plant. The No. 2 or Building 35 Pump Station serves a remote area that uses a 2-inch forced main to connect to the main collection system. The No. 3 or Star Base pump station also utilizes a 2-inch force main. The No. 2 and No.3 stations are less than 10 years old and have had no reported maintenance problems or overflow problems.

**J6.2.1.2 Inventory**

**Table 1** provides a general listing of the major waste water system fixed assets for the FANG, Jacksonville wastewater system included in the purchase. The system will be sold in a “as is, where is” condition without any warranty, representation, or obligation on the part of Government to make any alterations, repairs, or improvements. Ancillary equipment attached to, and necessary for, operating the system, though not specifically mentioned herein, is considered part of the purchased utility.

**TABLE - 1**  
**FIXED INVENTORY**  
 Wastewater Collection System Inventory - FANG Jacksonville

Item	Size	Quantity	Unit	Approximate Year of Construction
<b>Water Collection Pipe</b>				
PVC, Class 160	2"	1,790	LF	1995
PVC, Drainage and Sewage, SDR 35	4"	1,080	LF	1969
PVC, Drainage and Sewage, SDR 35	4"	110	LF	1975
PVC, Drainage and Sewage, SDR 35	4"	435	LF	1985
PVC, Drainage and Sewage, SDR 35	6"	495	LF	1969
PVC, Drainage and Sewage, SDR 35	6"	250	LF	1985
PVC, Drainage and Sewage, SDR 35	8"	330	LF	1975
PVC, Drainage and Sewage, SDR 35	8"	3,536	LF	1969
Sewage Pump Station	200 GPM	1	EA	1969
Sewage Pump Station	200 GPM	2	EA	1995
Manhole/Catch Basin, concrete	5' ID	14	EA	1969

**Notes:**

EA = each  
 LF = linear feet  
 SDR = Standard Diameter Ratio  
 Gal = Gallons

### J6.2.2 Waste Water Collection 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  
 Wastewater Collection System Inventory - FANG Jacksonville

Qty	Item	Make/Model	Description	Remarks
	None			

TABLE - 3  
 SPECIALIZED EQUIPMENT AND VEHICLES  
 Wastewater Collection System Inventory - FANG Jacksonville

Description	Quantity	Location	Maker
None			

### J6.2.3 Wastewater System Manuals, Drawings, and Records Inventory

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

TABLE - 4  
 MANUALS, DRAWINGS, AND RECORDS  
 Wastewater Collection System Inventory - FANG Jacksonville

Qty	Item	Description	Remarks
1 Set	As Built Drawings		See Base Civil Engineer

## J6.3 Current Service Arrangement

The FANG purchases its wastewater service from JEA. JEA rates, terms, and conditions of service are regulated by a governing body of seven members appointed by the Mayor and confirmed by the

City Council. A territorial dispute could arise if JEA filed a complaint with the FPSC indicating that another utility, which in this case would be the owner of the FANG’s distribution system, was operating within their certified service territory. Territorial disputes between utilities are decided by the FPSC. JEA indicated that they would view any third party that owned, operated and maintained the water and wastewater distribution systems other than the Air Force or themselves as another utility. Although the territorial dispute may have merit, a legal decision will need to be made before it can be confirmed.

The amount of wastewater produced during a week is extremely variable. During the week about 300 people use the base’s facilities, but that number can increase to over 1,100 people one weekend per month. Because of the FANG’s mission, there are no resident quarters on the base.

The FANG has reported no problems regarding the capacity of the wastewater collection system. Considering the water usage figures the base might generate over 14,000 gallons of wastewater a day. The base has reported that the collection system does not appear to have significant infiltration/exfiltration or overflow problems. With little future growth expected the wastewater collection system capacity is not a problem for the FANG, Jacksonville.

## J6.4 Secondary Metering

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

### J6.4.1 Existing Secondary Meters

TABLE - 5  
 EXISTING SECONDARY METERS  
 Wastewater Collection System Inventory - FANG Jacksonville

Meter Location	Meter Description
None	

## J6.5 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 25<sup>th</sup> 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 25<sup>th</sup> 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 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 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 25<sup>th</sup> 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)

## J6.6 Energy Savings and Conservation Projects

IAW C.3, Utility Service Requirement, the Government has not implemented any projects for energy conservation purposes:

## J6.7 Service Area

IAW Clause C.4, Service Area, the service area is defined as all areas within the FANG, Jacksonville boundaries.

## J6.8 Off-Installation Sites

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

## J6.9 Specific Transition Requirements

IAW Clause C.17, Transition Plan, **Table 6** lists service connections and disconnections required upon transfer, and **Table 7** lists the improvement projects required upon transfer of the FANG, Jacksonville water system.

TABLE - 6  
SERVICE CONNECTIONS AND DISCONNECTIONS  
Wastewater Collection System Inventory - FANG Jacksonville

Location	Description
None Required	

**TABLE - 7**  
**SYSTEM IMPROVEMENT PROJECTS**  
Wastewater Collection System Inventory - FANG Jacksonville

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